



Building knowledge

# Job Order Contract Construction Task Catalog®

Book 1 of 2   CSI Divisions 01 - 26   July 2020

Monterey County  
Roads and Bridges



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## About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2020.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

## MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



## The Unit Prices Include:

### LABOR COSTS:

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

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### EQUIPMENT COSTS:

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

### MATERIAL COSTS:

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

## The Adjustment Factors Include:

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

### BUSINESS COSTS:

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

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

### PROJECT RELATED COSTS:

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

sleet or snow. Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.

- Daily clean-up.
- Final professional clean-up.

### PRICE VARIATIONS:

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

### SUMMARY:

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

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

### General Rules:

- Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than

2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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

#### DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner

designated area, located within 125' of the project site.

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

#### WORKING HEIGHT:

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

#### FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying

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required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate tasks.

equipment, spare parts, services, and work required by a Technical Specification shall be considered included in the unit price, unless the task description states otherwise.

### ASSEMBLIES:

- Assembly tasks take precedence over individual component tasks.

### RESTRICTED AND CONFINED SPACES:

- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.

### TECHNICAL SPECIFICATIONS:

- Technical Specifications for tasks shall be interpreted as follows: All labor, material,

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### Or Equals:

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

### Useful Information:

#### UNIT OF MEASURE DEFINITIONS:

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

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

Clay	3220	2150	3570
Gneiss	4550	2720	3180

**BULK FACTORS FOR DEMOLITION:**

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

**CONVERSIONS:**

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

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

**1 Centimeter** = 0.3937 Inches = 0.0328 Feet

**1 Cubic Foot** = 0.03704 Cubic Yards = 0.02832 Cubic Meters

**1 Cubic Meter** = 1.3080 Cubic Yards = 35.3147 Cubic Feet

**1 Cubic Yard** = 27 Cubic Feet = 0.7646 Cubic Meters

**1 Foot** = 12 Inches = 0.3048 Meters

**1 Inch** = 2.54 Centimeters = 0.0254 Meters

**1 Kilogram** = 2.2046 Pounds

**1 Kilometer** = 0.6214 Miles = 3280 Feet

**1 Meter** = 100 Centimeters = 3.2808 Feet

**1 Mile** = 5280 Feet = 1.6093 Kilometers

**1 Pound** = 0.4536 Kilograms

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

**1 Square Meter** = 1.1960 Square Yards = 10.7639 Square Feet

**1 Square Yard** = 9 Square Feet = 0.8361 Square Meters

**MATERIAL WEIGHTS:**

**EARTHEN MATERIAL**

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

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

## Using The Construction Task Catalog®

**1 Ton = 2000 Pounds = 907.185 Kilograms**

**1 Yard = 3 Feet = 0.9144 Meters**

## TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQ, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

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

## STANDARD GEOMETRY:

### Circle

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

### Cylinder

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

### Sphere

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

**$\pi = 3.14159$**

### United Inch

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





<b>General Requirements</b>		<b>01</b>
<b>Price And Payment Procedures</b>		<b>01 20</b>
Unit Prices		01 22

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

### 01 20 Price And Payment Procedures <sup>(01)</sup>

#### 01 22 Unit Prices <sup>(01 20)</sup>

##### 01 22 16 Unit Price Payment <sup>(01 22)</sup>

##### 01 22 16 00-0001 Negotiated Travel Costs <sup>(01 22 16)</sup>

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

01 22 16 00-0002	EA	Negotiated Travel Costs.....	1.00
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Note: Supporting documentation must be included with each Work Order.

##### 01 22 16 00-0003 Reimbursable Fees <sup>(01 22 16)</sup>

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

01 22 16 00-0004	EA	Reimbursable Fees .....	1.00
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Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.

##### 01 22 20 Wage Rates <sup>(01 22)</sup>

##### 01 22 20 00-0001 Local Labor/Wage Rates <sup>(01 22 20)</sup>

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

01 22 20 00-0002	HR	Asbestos Removal Worker.....	63.14
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	3.16
		For Apprentice, Deduct	-12.63
01 22 20 00-0003	HR	Brick Layer .....	92.58
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.63
		For Apprentice, Deduct	-18.52
01 22 20 00-0004	HR	Carpenter .....	99.66
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.98
		For Apprentice, Deduct	-19.93
01 22 20 00-0005	HR	Carpenter, Bridge Builder.....	113.63
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.68
		For Apprentice, Deduct	-22.73
01 22 20 00-0006	HR	Cement Mason.....	77.35
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	3.87
		For Apprentice, Deduct	-15.47
01 22 20 00-0007	HR	Electrician .....	101.05
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.05
		For Apprentice, Deduct	-20.21
01 22 20 00-0008	HR	Electrician, Cable Splicer .....	102.76
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.14
		For Apprentice, Deduct	-20.55
01 22 20 00-0009	HR	Electrical Groundman.....	102.76
		Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.	
		For Foreman, Add	5.14
		For Apprentice, Deduct	-20.55
01 22 20 00-0010	HR	High Voltage Electrician, (Utility Lineman) .....	97.66
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.88
		For Apprentice, Deduct	-19.53
01 22 20 00-0011	HR	Communication And System Technician.....	85.74
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Apprentice, Deduct	-17.15
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 1-A) .....	98.45
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 2-A) .....	96.17
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.81
		For Apprentice, Deduct	-19.23
01 22 20 00-0014	HR	Equipment Operator, Crane (Group 3-A) .....	93.91
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 3) .....	94.74
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.74
		For Apprentice, Deduct	-18.95

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 4)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	92.91	
01 22 20 00-0017	HR	Equipment Operator, Medium (Group 5)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	91.23	
01 22 20 00-0018	HR	Equipment Operator, Light (Group 6)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	89.48	
		<i>For Foreman, Add</i>	4.47	
		<i>For Apprentice, Deduct</i>	-17.90	
01 22 20 00-0019	HR	Equipment Operator, Light (Group 7)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.97	
01 22 20 00-0020	HR	Equipment Operator, Light (Group 8)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	86.46	
01 22 20 00-0021	HR	Laborer..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	73.17	
01 22 20 00-0022	HR	Landscape Maintenance Laborer..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	73.17	
01 22 20 00-0023	HR	Millwright..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	94.89	
		<i>For Foreman, Add</i>	4.74	
		<i>For Apprentice, Deduct</i>	-18.98	
01 22 20 00-0024	HR	Mold Removal Worker..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	75.50	
		<i>For Foreman, Add</i>	3.78	
		<i>For Apprentice, Deduct</i>	-15.10	
01 22 20 00-0025	HR	Painter, Ordinary..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	86.04	
		<i>For Foreman, Add</i>	4.30	
		<i>For Apprentice, Deduct</i>	-17.21	
01 22 20 00-0026	HR	Painter, Structural Steel..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	89.69	
		<i>For Foreman, Add</i>	4.48	
		<i>For Apprentice, Deduct</i>	-17.94	
01 22 20 00-0027	HR	Pile Drivers..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	110.11	
		<i>For Foreman, Add</i>	5.51	
		<i>For Apprentice, Deduct</i>	-22.02	
01 22 20 00-0028	HR	Plasterer..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	92.74	
		<i>For Foreman, Add</i>	4.64	
		<i>For Apprentice, Deduct</i>	-18.55	
01 22 20 00-0029	HR	Plumber..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	99.14	
		<i>For Foreman, Add</i>	4.96	
		<i>For Apprentice, Deduct</i>	-19.83	
01 22 20 00-0030	HR	Powderman..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	76.97	
		<i>For Foreman, Add</i>	3.85	
		<i>For Apprentice, Deduct</i>	-15.39	
01 22 20 00-0031	HR	Rodman (Reinforcing)/Ornamental Steel Worker..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	88.24	
		<i>For Foreman, Add</i>	4.41	
		<i>For Apprentice, Deduct</i>	-17.65	
01 22 20 00-0032	HR	Sheet Metal Worker..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	103.49	
		<i>For Foreman, Add</i>	5.17	
		<i>For Apprentice, Deduct</i>	-20.70	
01 22 20 00-0033	HR	Stone Mason..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	92.58	
		<i>For Foreman, Add</i>	4.63	
		<i>For Apprentice, Deduct</i>	-18.52	
01 22 20 00-0034	HR	Iron Worker (Structural)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	90.69	
		<i>For Foreman, Add</i>	4.53	
		<i>For Apprentice, Deduct</i>	-18.14	
01 22 20 00-0035	HR	Tile Layer..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.64	
		<i>For Foreman, Add</i>	4.38	
		<i>For Apprentice, Deduct</i>	-17.53	
01 22 20 00-0036	HR	Terrazzo Worker..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.00	
		<i>For Foreman, Add</i>	4.35	
		<i>For Apprentice, Deduct</i>	-17.40	
01 22 20 00-0037	HR	Truck Driver, Light (Group 1)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	74.39	
		<i>For Foreman, Add</i>	3.72	
		<i>For Apprentice, Deduct</i>	-14.88	
01 22 20 00-0038	HR	Truck Driver, Medium (Group 2)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	74.80	
01 22 20 00-0039	HR	Truck Driver, Heavy (Group 3)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	75.21	
		<i>For Foreman, Add</i>	3.76	
		<i>For Apprentice, Deduct</i>	-15.04	
01 22 20 00-0040	HR	Truck Driver, Heavy (Group 4)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	75.69	
01 22 20 00-0041	HR	D1 Certified Welder..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	97.08	



<b>General Requirements</b>		<b>01</b>
<b>Price And Payment Procedures</b>		<b>01 20</b>
Unit Prices		01 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 22 20 00-0042 Rates For Services** (01 22 20)

01 22 20 00-0043	HR	Watchman/Guard, Unarmed .....	30.45
01 22 20 00-0044	HR	Watchman/Guard, Armed .....	37.76
01 22 20 00-0045	HR	Senior Surveyor (Party Chief) .....	102.19
01 22 20 00-0046	HR	Surveyor (Instrument person) .....	97.58
01 22 20 00-0047	HR	Surveyor (Rod person) .....	93.29
01 22 20 00-0048	HR	On-Site Certified Materials Testing Technician .....	85.62
01 22 20 00-0049	HR	Certified Industrial Hygienist .....	115.65
01 22 20 00-0050	MI	Mileage For Professional Services (Engineering, Surveying, Etcetera) .....	0.58
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.			
01 22 20 00-0051	EA	Security Badge, Processing Fee .....	51.76
01 22 20 00-0052	HR	Biologist .....	132.00
01 22 20 00-0053	HR	Ecologist .....	145.00
01 22 20 00-0054	HR	Fire Watch Laborer .....	73.17
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.			

**01 22 20 00-0055 Rates For Architectural And Engineering Services** (01 22 20)

Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.			
01 22 20 00-0056	HR	Principal Architect .....	210.00
01 22 20 00-0057	HR	Senior Architect .....	185.00
01 22 20 00-0058	HR	Architect .....	141.25
01 22 20 00-0059	HR	Principal Engineer .....	210.00
01 22 20 00-0060	HR	Senior Engineer .....	160.00
01 22 20 00-0061	HR	Engineer .....	127.50
01 22 20 00-0062	HR	Draftsman .....	75.62
01 22 20 00-0063	HR	Project Manager .....	150.00

**01 22 20 00-0064 Rates For Traffic Control** (01 22 20)

01 22 20 00-0065	HR	Flagperson For Traffic Control .....	73.17
01 22 20 00-0066	DAY	Pilot Vehicle With Driver .....	841.64
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.			
01 22 20 00-0067	HR	California Highway Patrol Officer With Car .....	50.70
For Each Mile, Add			0.56
01 22 20 00-0068	HR	California Highway Patrol Officer With Motorcycle .....	51.22
For Each Mile, Add			0.90
01 22 20 00-0069	HR	California Highway Patrol Sergeant Officer With Car .....	62.13
For Each Mile, Add			0.90
01 22 20 00-0070	HR	California Highway Patrol Sergeant Officer With Motorcycle .....	62.28
For Each Mile, Add			0.90

**01 22 20 00-0071 Mobilize Equipment** (01 22 20)

01 22 20 00-0072	HR	Escort Vehicle With Driver .....	80.51
01 22 20 00-0073	HR	Transport Vehicle With Driver .....	102.57

**01 22 23 Equipment Usage** (01 22)

Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0064 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.

**01 22 23 00-0001 Aerial Equipment** (01 22 23)

**01 22 23 00-0002 Man Lifts** (01 22 23 00-0001)

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

**01 22 23 00-0003 Telescoping Boom Man Lifts With Platform** (01 22 23 00-0002)

**01 22 23 00-0004 Engine Powered, Telescoping Boom Man Lifts With Platform** (01 22 23 00-0003)

Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.

01 22 23 00-0005	DAY	40' Engine Powered, Telescoping Boom Man Lift With Platform .....	402.01
For Four-Wheel Drive, Add			90.45
01 22 23 00-0006	WK	40' Engine Powered, Telescoping Boom Man Lift With Platform .....	1,011.50
For Four-Wheel Drive, Add			227.59
01 22 23 00-0007	MO	40' Engine Powered, Telescoping Boom Man Lift With Platform .....	2,269.40
For Four-Wheel Drive, Add			510.62
01 22 23 00-0008	DAY	60' Engine Powered, Telescoping Boom Man Lift With Platform .....	590.04
For Four-Wheel Drive, Add			132.76
01 22 23 00-0009	WK	60' Engine Powered, Telescoping Boom Man Lift With Platform .....	1,407.03
For Four-Wheel Drive, Add			316.58

**01 General Requirements**  
**01 20 Price And Payment Procedures**  
**01 22 Unit Prices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,079.90 692.98	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,147.67 258.23	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	2,781.64 625.87	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	5,835.60 1,313.01	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,633.97 367.64	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,934.49 885.26	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	9,803.81 2,205.86	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,990.59 447.88	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	5,076.97 1,142.32	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	11,541.52 2,596.84	
<b>01 22 23 00-0020 Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)</b>		
<b>01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)</b>		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	364.46	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	914.46	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,200.00	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	463.86	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,013.85	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,516.74	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	596.38	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,378.31	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,081.32	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,040.36	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,451.80	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,962.52	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,021.08	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	4,771.08	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	11,662.64	
<b>01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)</b>		
Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	364.46	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	914.46	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,200.00	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	364.46	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	914.46	
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,200.00	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	450.60	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	974.10	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,418.67	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	450.60	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	974.10	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,418.67	
<b>01 22 23 00-0050 Platform Lifts (01 22 23 00-0001)</b>		
Note: Excludes operator, delivery, set-up, and removal.		
<b>01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050)</b>		
Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	159.72	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	319.44	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift	653.40	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	174.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	348.48	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift	696.96	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	225.06	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	450.12	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift	965.58	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	290.40	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	573.54	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift	1,270.50	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	312.18	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	609.84	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift	1,379.40	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift	406.56	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift	1,009.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,809.62	
<b>01 22 23 00-0070 Engine Powered, Scissor Platform Lifts</b> <small>(01 22 23 00-0050)</small>		
<small>Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.</small>		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	326.70	
<i>For Four-Wheel Drive, Add</i>	65.34	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	638.88	
<i>For Four-Wheel Drive, Add</i>	127.78	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,560.90	
<i>For Four-Wheel Drive, Add</i>	312.18	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	333.96	
<i>For Four-Wheel Drive, Add</i>	66.79	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	762.30	
<i>For Four-Wheel Drive, Add</i>	152.46	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,669.80	
<i>For Four-Wheel Drive, Add</i>	333.96	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	370.26	
<i>For Four-Wheel Drive, Add</i>	74.05	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	849.42	
<i>For Four-Wheel Drive, Add</i>	169.88	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	1,887.60	
<i>For Four-Wheel Drive, Add</i>	377.52	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	392.04	
<i>For Four-Wheel Drive, Add</i>	78.41	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	914.76	
<i>For Four-Wheel Drive, Add</i>	182.95	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,250.60	
<i>For Four-Wheel Drive, Add</i>	450.12	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	733.26	
<i>For Four-Wheel Drive, Add</i>	146.65	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,611.72	
<i>For Four-Wheel Drive, Add</i>	322.34	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	3,963.96	
<i>For Four-Wheel Drive, Add</i>	792.79	
<b>01 22 23 00-0086 Personnel Lifts</b> <small>(01 22 23 00-0001)</small>		
<small>Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.</small>		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	104.99	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	297.48	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	600.80	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	145.82	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	309.15	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,049.94	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	244.99	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	594.97	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	1,738.23	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	262.48	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	653.30	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	1,965.72	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	139.99	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	279.98	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	559.97	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	139.99	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	279.98	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	582.13	
<b>01 22 23 00-0105 Bucket Trucks</b> <small>(01 22 23 00-0001)</small>		
<small>Note: Includes full-time operator, delivery, and removal.</small>		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,168.85	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,709.95	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator.....	17,298.57	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator.....	1,241.03	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator.....	4,941.97	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator.....	17,917.29	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator.....	1,426.65	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator.....	5,277.11	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator.....	18,639.13	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator.....	1,839.13	
<i>For Equipment Without Operator, Deduct</i>	-601.69	



<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator .....	6,617.67	
For Equipment Without Operator, Deduct .....	-3,008.47	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator .....	22,248.33	
For Equipment Without Operator, Deduct .....	-12,967.53	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator .....	2,045.37	
For Equipment Without Operator, Deduct .....	-601.69	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator .....	7,339.51	
For Equipment Without Operator, Deduct .....	-3,008.47	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator .....	24,826.33	
For Equipment Without Operator, Deduct .....	-12,967.53	
01 22 23 00-0121 Day 105' Bucket Truck With Full-Time Operator .....	2,148.49	
For Equipment Without Operator, Deduct .....	-601.69	
01 22 23 00-0122 WK 105' Bucket Truck With Full-Time Operator .....	7,648.87	
For Equipment Without Operator, Deduct .....	-3,008.47	
01 22 23 00-0123 MO 105' Bucket Truck With Full-Time Operator .....	25,073.84	
For Equipment Without Operator, Deduct .....	-12,967.55	
<b>01 22 23 00-0124 Air Equipment</b> (01 22 23)		
<b>01 22 23 00-0125 Air Compressors</b> (01 22 23 00-0124)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126 DAY 100 CFM Diesel Powered Portable Air Compressor .....	150.63	
01 22 23 00-0127 WK 100 CFM Diesel Powered Portable Air Compressor .....	451.89	
01 22 23 00-0128 MO 100 CFM Diesel Powered Portable Air Compressor .....	1,255.25	
01 22 23 00-0129 DAY 130 CFM Diesel Powered Portable Air Compressor .....	180.76	
01 22 23 00-0130 WK 130 CFM Diesel Powered Portable Air Compressor .....	532.23	
01 22 23 00-0131 MO 130 CFM Diesel Powered Portable Air Compressor .....	1,506.30	
01 22 23 00-0132 DAY 185 CFM Diesel Powered Portable Air Compressor .....	241.01	
01 22 23 00-0133 WK 185 CFM Diesel Powered Portable Air Compressor .....	542.27	
01 22 23 00-0134 MO 185 CFM Diesel Powered Portable Air Compressor .....	1,195.00	
01 22 23 00-0135 DAY 375 CFM Diesel Powered Portable Air Compressor .....	341.43	
01 22 23 00-0136 WK 375 CFM Diesel Powered Portable Air Compressor .....	863.61	
01 22 23 00-0137 MO 375 CFM Diesel Powered Portable Air Compressor .....	2,058.61	
01 22 23 00-0138 DAY 600 CFM Diesel Powered Portable Air Compressor .....	759.18	
01 22 23 00-0139 WK 600 CFM Diesel Powered Portable Air Compressor .....	1,827.64	
01 22 23 00-0140 MO 600 CFM Diesel Powered Portable Air Compressor .....	4,555.05	
01 22 23 00-0141 DAY 750 CFM Diesel Powered Portable Air Compressor .....	913.82	
01 22 23 00-0142 WK 750 CFM Diesel Powered Portable Air Compressor .....	2,249.41	
01 22 23 00-0143 MO 750 CFM Diesel Powered Portable Air Compressor .....	5,523.10	
01 22 23 00-0144 DAY 825 CFM Diesel Powered Portable Air Compressor .....	913.82	
01 22 23 00-0145 WK 825 CFM Diesel Powered Portable Air Compressor .....	2,249.41	
01 22 23 00-0146 MO 825 CFM Diesel Powered Portable Air Compressor .....	5,523.10	
01 22 23 00-0147 DAY 1,300 CFM Diesel Powered Portable Air Compressor .....	1,064.45	
01 22 23 00-0148 WK 1,300 CFM Diesel Powered Portable Air Compressor .....	2,385.98	
01 22 23 00-0149 MO 1,300 CFM Diesel Powered Portable Air Compressor .....	6,362.61	
01 22 23 00-0150 DAY 1,600 CFM Diesel Powered Portable Air Compressor .....	1,325.54	
01 22 23 00-0151 WK 1,600 CFM Diesel Powered Portable Air Compressor .....	2,982.47	
01 22 23 00-0152 MO 1,600 CFM Diesel Powered Portable Air Compressor .....	7,953.26	
<b>01 22 23 00-0153 Portable Negative Air Machines</b> (01 22 23 00-0124)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0154 DAY Up To 2,000 CFM, Portable Negative Air Machine .....	94.43	
01 22 23 00-0155 WK Up To 2,000 CFM, Portable Negative Air Machine .....	387.85	
01 22 23 00-0156 MO Up To 2,000 CFM, Portable Negative Air Machine .....	1,171.98	
01 22 23 00-0157 EA First Stage Pre-Filter For Portable Negative Air Machines .....	12.63	
01 22 23 00-0158 EA Second Stage Pre-Filter For Portable Negative Air Machines .....	29.29	
01 22 23 00-0159 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines .....	152.04	
01 22 23 00-0160 LF Flexible Exhaust Duct For Portable Negative Air Machines .....	1.31	
<b>01 22 23 00-0161 Compaction And Paving Equipment</b> (01 22 23)		
<b>01 22 23 00-0162 Pavers And Rollers</b> (01 22 23 00-0161)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
<b>01 22 23 00-0163 Pavers</b> (01 22 23 00-0162)		
01 22 23 00-0164 DAY 10' Wide Paving Machine With Full-Time Operator .....	2,707.78	
For Equipment Without Operator, Deduct .....	-757.95	
01 22 23 00-0165 WK 10' Wide Paving Machine With Full-Time Operator .....	11,589.04	
For Equipment Without Operator, Deduct .....	-3,789.73	
01 22 23 00-0166 MO 10' Wide Paving Machine With Full-Time Operator .....	44,190.19	
For Equipment Without Operator, Deduct .....	-16,335.05	
<b>01 22 23 00-0167 Ride-On Self-Propelled, Rubber Tire Rollers</b> (01 22 23 00-0162)		
01 22 23 00-0168 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....	1,099.95	
For Equipment Without Operator, Deduct .....	-757.95	
01 22 23 00-0169 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....	4,824.13	
For Equipment Without Operator, Deduct .....	-3,789.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0170 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,143.05 -16,335.05	
01 22 23 00-0171 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,231.95 -757.95	
01 22 23 00-0172 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,805.73 -3,789.73	
01 22 23 00-0173 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,625.05 -16,335.05	
01 22 23 00-0174 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,237.95 -757.95	
01 22 23 00-0175 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,415.73 -3,789.73	
01 22 23 00-0176 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,913.05 -16,335.05	
<b>01 22 23 00-0177 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0162)</b>		
01 22 23 00-0178 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,153.95 -757.95	
01 22 23 00-0179 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,887.73 -3,789.73	
01 22 23 00-0180 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	19,509.05 -16,335.05	
01 22 23 00-0181 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,405.95 -757.95	
01 22 23 00-0182 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,397.73 -3,789.73	
01 22 23 00-0183 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,117.05 -16,335.05	
01 22 23 00-0184 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,465.95 -757.95	
01 22 23 00-0185 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,775.73 -3,789.73	
01 22 23 00-0186 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	22,173.05 -16,335.05	
<b>01 22 23 00-0187 Towed, Padfoot Rollers (01 22 23 00-0162)</b>		
01 22 23 00-0188 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller .....	114.00	
01 22 23 00-0189 WK 48" Wide, 40" Diameter, Towed Padfoot Roller .....	330.00	
01 22 23 00-0190 MO 48" Wide, 40" Diameter, Towed Padfoot Roller .....	972.00	
01 22 23 00-0191 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller .....	144.00	
01 22 23 00-0192 WK 60" Wide, 60" Diameter, Towed Padfoot Roller .....	402.00	
01 22 23 00-0193 MO 60" Wide, 60" Diameter, Towed Padfoot Roller .....	1,710.00	
<b>01 22 23 00-0194 Static Rollers (01 22 23 00-0162)</b>		
01 22 23 00-0195 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,183.95 -757.95	
01 22 23 00-0196 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,145.73 -3,789.73	
01 22 23 00-0197 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,355.05 -16,335.05	
01 22 23 00-0198 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,315.95 -757.95	
01 22 23 00-0199 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,505.73 -3,789.73	
01 22 23 00-0200 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,351.05 -16,335.05	
<b>01 22 23 00-0201 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0162)</b>		
01 22 23 00-0202 DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	991.95 -757.95	
01 22 23 00-0203 WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,473.73 -3,789.73	
01 22 23 00-0204 MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,135.05 -16,335.05	
01 22 23 00-0205 DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,081.95 -757.95	
01 22 23 00-0206 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,743.73 -3,789.73	
01 22 23 00-0207 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,141.95 -757.95	
01 22 23 00-0208 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,923.73 -3,789.73	
01 22 23 00-0209 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	19,335.05 -16,335.05	
01 22 23 00-0210 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,219.95 -757.95	
01 22 23 00-0211 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,151.73 -3,789.73	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0212	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	19,929.05 -16,335.05	
01 22 23 00-0213	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,375.95 -757.95	
01 22 23 00-0214	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,607.73 -3,789.73	
01 22 23 00-0215	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,135.05 -16,335.05	
<b>01 22 23 00-0216 Steel Roadway Plates</b> <small>(01 22 23 00-0161)</small>					
Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.					
01 22 23 00-0217	EA		Mobilization of Steel Roadway Plates ..... Note: Mobilization for each site location.	389.33	
01 22 23 00-0218	EA		Placement And Removal Of Steel Roadway Plates .....	44.88	
01 22 23 00-0219	DAY		1" x 4' x 8' Steel Plate.....	25.78	
01 22 23 00-0220	WK		1" x 4' x 8' Steel Plate.....	60.87	
01 22 23 00-0221	MO		1" x 4' x 8' Steel Plate.....	80.10	
01 22 23 00-0222	DAY		1" x 4' x 10' Steel Plate.....	34.37	
01 22 23 00-0223	WK		1" x 4' x 10' Steel Plate.....	77.34	
01 22 23 00-0224	MO		1" x 4' x 10' Steel Plate.....	94.53	
01 22 23 00-0225	DAY		1" x 5' x 10' Steel Plate.....	35.80	
01 22 23 00-0226	WK		1" x 5' x 10' Steel Plate.....	80.92	
01 22 23 00-0227	MO		1" x 5' x 10' Steel Plate.....	214.83	
01 22 23 00-0228	DAY		1" x 6' x 8' Steel Plate.....	22.92	
01 22 23 00-0229	WK		1" x 6' x 8' Steel Plate.....	51.56	
01 22 23 00-0230	MO		1" x 6' x 8' Steel Plate.....	137.49	
01 22 23 00-0231	DAY		1" x 6' x 10' Steel Plate.....	42.97	
01 22 23 00-0232	WK		1" x 6' x 10' Steel Plate.....	56.57	
01 22 23 00-0233	MO		1" x 6' x 10' Steel Plate.....	151.10	
01 22 23 00-0234	DAY		1" x 6' x 12' Steel Plate.....	60.15	
01 22 23 00-0235	WK		1" x 6' x 12' Steel Plate.....	76.98	
01 22 23 00-0236	MO		1" x 6' x 12' Steel Plate.....	208.39	
01 22 23 00-0237	DAY		1" x 8' x 10' Steel Plate.....	37.95	
01 22 23 00-0238	WK		1" x 8' x 10' Steel Plate.....	85.22	
01 22 23 00-0239	MO		1" x 8' x 10' Steel Plate.....	227.00	
01 22 23 00-0240	DAY		1" x 8' x 12' Steel Plate.....	68.75	
01 22 23 00-0241	WK		1" x 8' x 12' Steel Plate.....	85.22	
01 22 23 00-0242	MO		1" x 8' x 12' Steel Plate.....	412.47	
01 22 23 00-0243	DAY		1" x 8' x 16' Steel Plate.....	91.66	
01 22 23 00-0244	WK		1" x 8' x 16' Steel Plate.....	206.24	
01 22 23 00-0245	MO		1" x 8' x 16' Steel Plate.....	549.96	
01 22 23 00-0246	DAY		1-1/4" x 8' x 10' Steel Plate.....	45.54	
01 22 23 00-0247	WK		1-1/4" x 8' x 10' Steel Plate.....	102.26	
01 22 23 00-0248	MO		1-1/4" x 8' x 10' Steel Plate.....	272.40	
01 22 23 00-0249	DAY		1-1/2" x 8' x 15' Steel Plate.....	105.41	
01 22 23 00-0250	WK		1-1/2" x 8' x 15' Steel Plate.....	237.17	
01 22 23 00-0251	MO		1-1/2" x 8' x 15' Steel Plate.....	632.46	
01 22 23 00-0252	LF		Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	1.81	0.90
01 22 23 00-0253	EA		Removal And Resetting Of Steel Roadway Plate.....	24.93	
<b>01 22 23 00-0254 Street Sweepers</b> <small>(01 22 23 00-0161)</small>					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0255	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	920.85 -715.86	
01 22 23 00-0256	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,391.61 -3,579.32	
01 22 23 00-0257	MO		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,322.10 -15,428.10	
01 22 23 00-0258	DAY		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	1,634.01 -715.86	
01 22 23 00-0259	WK		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	7,256.98 -3,579.32	
01 22 23 00-0260	MO		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	28,552.77 -15,428.10	
<b>01 22 23 00-0261 Earthmoving Equipment</b> <small>(01 22 23)</small>					
<b>01 22 23 00-0262 Skid-Steer Loaders</b> <small>(01 22 23 00-0261)</small>					
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.					
01 22 23 00-0263	DAY		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,002.33 -715.86	
01 22 23 00-0264	WK		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,330.84 -3,579.32	
01 22 23 00-0265	MO		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,237.99 -15,428.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0266 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....	1,077.84	
For Equipment Without Operator, Deduct	-715.86	
01 22 23 00-0267 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....	4,467.48	
For Equipment Without Operator, Deduct	-3,579.32	
01 22 23 00-0268 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....	17,537.64	
For Equipment Without Operator, Deduct	-15,428.10	
01 22 23 00-0269 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....	1,099.41	
For Equipment Without Operator, Deduct	-715.86	
01 22 23 00-0270 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....	4,664.05	
For Equipment Without Operator, Deduct	-3,579.32	
01 22 23 00-0271 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....	18,059.03	
For Equipment Without Operator, Deduct	-15,428.10	
01 22 23 00-0272 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	1,183.31	
For Equipment Without Operator, Deduct	-715.86	
01 22 23 00-0273 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	4,939.73	
For Equipment Without Operator, Deduct	-3,579.32	
01 22 23 00-0274 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	18,969.96	
For Equipment Without Operator, Deduct	-15,428.10	
01 22 23 00-0275 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	1,327.15	
For Equipment Without Operator, Deduct	-715.86	
01 22 23 00-0276 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	5,485.09	
For Equipment Without Operator, Deduct	-3,579.32	
01 22 23 00-0277 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....	20,312.40	
For Equipment Without Operator, Deduct	-15,428.10	
01 22 23 00-0278 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders .....	239.72	
01 22 23 00-0279 WK Hydraulic Hammer Attachment For Skid-Steer Loaders .....	797.07	
01 22 23 00-0280 MO Hydraulic Hammer Attachment For Skid-Steer Loaders .....	2,121.52	
01 22 23 00-0281 DAY Forklift Attachment For Skid-Steer Loaders .....	51.54	
01 22 23 00-0282 WK Forklift Attachment For Skid-Steer Loaders .....	137.84	
01 22 23 00-0283 MO Forklift Attachment For Skid-Steer Loaders .....	389.54	
01 22 23 00-0284 DAY Backhoe Attachment For Skid-Steer Loaders .....	113.87	
01 22 23 00-0285 WK Backhoe Attachment For Skid-Steer Loaders .....	273.28	
01 22 23 00-0286 MO Backhoe Attachment For Skid-Steer Loaders .....	679.61	
01 22 23 00-0287 DAY Broom Attachment For Skid-Steer Loaders .....	112.67	
01 22 23 00-0288 WK Broom Attachment For Skid-Steer Loaders .....	305.64	
01 22 23 00-0289 MO Broom Attachment For Skid-Steer Loaders .....	809.06	
01 22 23 00-0290 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....	98.29	
01 22 23 00-0291 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....	270.88	
01 22 23 00-0292 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....	739.54	
01 22 23 00-0293 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	27.09	
01 22 23 00-0294 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	70.87	
01 22 23 00-0295 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	208.45	
01 22 23 00-0296 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	36.47	
01 22 23 00-0297 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	90.67	
01 22 23 00-0298 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	270.99	
01 22 23 00-0299 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	53.15	
01 22 23 00-0300 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	161.56	
01 22 23 00-0301 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....	479.44	
01 22 23 00-0302 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....	10.79	
01 22 23 00-0303 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....	25.17	
01 22 23 00-0304 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....	67.12	
<b>01 22 23 00-0305 Bulldozers</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0306 DAY 70 HP, D3 Bulldozer With Full-Time Operator .....	1,134.06	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0307 WK 70 HP, D3 Bulldozer With Full-Time Operator .....	5,272.90	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0308 MO 70 HP, D3 Bulldozer With Full-Time Operator .....	20,734.88	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0309 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	1,311.48	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0310 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	5,989.65	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0311 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	22,934.79	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0312 DAY 140 HP, D6 Bulldozer With Full-Time Operator .....	1,815.33	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0313 WK 140 HP, D6 Bulldozer With Full-Time Operator .....	8,005.05	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0314 MO 140 HP, D6 Bulldozer With Full-Time Operator .....	28,966.82	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0315 DAY 200 HP, D7 Bulldozer With Full-Time Operator .....	2,262.41	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0316 WK 200 HP, D7 Bulldozer With Full-Time Operator .....	9,800.47	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0317 MO 200 HP, D7 Bulldozer With Full-Time Operator .....	34,360.16	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0318 DAY 335 HP, D8 Bulldozer With Full-Time Operator .....	2,794.65	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0319 WK 335 HP, D8 Bulldozer With Full-Time Operator .....	11,929.42	
For Equipment Without Operator, Deduct	-3,789.73	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0320 MO 335 HP, D8 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	40,747.01 -16,335.05	
01 22 23 00-0321 DAY 460 HP, D9 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	3,092.70 -757.95	
01 22 23 00-0322 WK 460 HP, D9 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	13,114.53 -3,789.73	
01 22 23 00-0323 MO 460 HP, D9 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	44,295.26 -16,335.05	
<b>01 22 23 00-0324 Motor Scraper</b> (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0325 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,393.56 -757.95	
01 22 23 00-0326 WK 11 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,332.17 -3,789.73	
01 22 23 00-0327 MO 11 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	23,953.67 -16,335.05	
01 22 23 00-0328 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,650.42 -757.95	
01 22 23 00-0329 WK 18 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,359.60 -3,789.73	
01 22 23 00-0330 MO 18 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	27,044.66 -16,335.05	
01 22 23 00-0331 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,898.57 -757.95	
01 22 23 00-0332 WK 24 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	8,347.84 -3,789.73	
01 22 23 00-0333 MO 24 CY Motor Scraper-Hauler With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	30,005.04 -16,335.05	
<b>01 22 23 00-0334 Hydraulic Excavators</b> (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0335 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,108.41 -757.95	
01 22 23 00-0336 WK 3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,029.32 -3,789.73	
01 22 23 00-0337 MO 3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,488.65 -16,335.05	
01 22 23 00-0338 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,207.06 -757.95	
01 22 23 00-0339 WK 1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,464.15 -3,789.73	
01 22 23 00-0340 MO 1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	22,227.97 -16,335.05	
01 22 23 00-0341 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,238.21 -757.95	
01 22 23 00-0342 WK 5/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,626.40 -3,789.73	
01 22 23 00-0343 MO 5/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	22,513.53 -16,335.05	
01 22 23 00-0344 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,270.66 -757.95	
01 22 23 00-0345 WK 3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,775.67 -3,789.73	
01 22 23 00-0346 MO 3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	22,799.09 -16,335.05	
01 22 23 00-0347 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,296.62 -757.95	
01 22 23 00-0348 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,931.43 -3,789.73	
01 22 23 00-0349 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	23,084.65 -16,335.05	
01 22 23 00-0350 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,647.08 -757.95	
01 22 23 00-0351 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,326.78 -3,789.73	
01 22 23 00-0352 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,946.20 -16,335.05	
01 22 23 00-0353 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,699.00 -757.95	
01 22 23 00-0354 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,553.93 -3,789.73	
01 22 23 00-0355 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	27,627.65 -16,335.05	
01 22 23 00-0356 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,796.35 -757.95	
01 22 23 00-0357 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,943.33 -3,789.73	
01 22 23 00-0358 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	28,795.85 -16,335.05	
01 22 23 00-0359 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,906.68 -757.95	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0360 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	8,378.16	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0361 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	30,093.85	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0362 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	1,939.13	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0363 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	8,507.96	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0364 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	30,483.25	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0365 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,250.65	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0366 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	9,760.53	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0367 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	34,247.45	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0368 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,698.46	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0369 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,538.79	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0370 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	39,569.25	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0371 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,250.11	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0372 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	13,745.39	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0373 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	46,189.05	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0374 DAY Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	1,822.31	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0375 WK Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	8,034.19	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0376 MO Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	29,055.45	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0377 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators.....	90.86	
01 22 23 00-0378 WK Thumbs Or Grapple Attachment For Hydraulic Excavators.....	350.46	
01 22 23 00-0379 MO Thumbs Or Grapple Attachment For Hydraulic Excavators.....	1,038.40	
01 22 23 00-0380 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	402.38	
01 22 23 00-0381 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,064.36	
01 22 23 00-0382 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,978.91	
01 22 23 00-0383 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	623.04	
01 22 23 00-0384 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,590.05	
01 22 23 00-0385 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,134.13	
01 22 23 00-0386 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	869.66	
01 22 23 00-0387 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,342.89	
01 22 23 00-0388 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,567.88	
01 22 23 00-0389 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators.....	181.72	
01 22 23 00-0390 WK 24" Compaction Wheel Attachment For Hydraulic Excavators.....	726.88	
01 22 23 00-0391 MO 24" Compaction Wheel Attachment For Hydraulic Excavators.....	2,180.64	
01 22 23 00-0392 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators.....	259.60	
01 22 23 00-0393 WK 36" Compaction Wheel Attachment For Hydraulic Excavators.....	1,038.40	
01 22 23 00-0394 MO 36" Compaction Wheel Attachment For Hydraulic Excavators.....	3,115.20	
01 22 23 00-0395 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators.....	285.56	
01 22 23 00-0396 WK 48" Compaction Wheel Attachment For Hydraulic Excavators.....	1,129.26	
01 22 23 00-0397 MO 48" Compaction Wheel Attachment For Hydraulic Excavators.....	3,374.80	
<b>01 22 23 00-0398 Mini-Excavators</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0399 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,030.53	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0400 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,562.04	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0401 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	18,035.43	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0402 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,037.02	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0403 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,581.51	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0404 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	18,444.30	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0405 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,069.47	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0406 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	4,672.37	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0407 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	18,502.71	
For Equipment Without Operator, Deduct	-16,335.05	
01 22 23 00-0408 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,082.45	
For Equipment Without Operator, Deduct	-757.95	
01 22 23 00-0409 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	4,717.80	
For Equipment Without Operator, Deduct	-3,789.73	
01 22 23 00-0410 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	18,528.67	
For Equipment Without Operator, Deduct	-16,335.05	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0411 DAY 9,500 LB Mini-Excavator With Full-Time Operator .....	1,160.33	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0412 WK 9,500 LB Mini-Excavator With Full-Time Operator .....	4,782.70	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0413 MO 9,500 LB Mini-Excavator With Full-Time Operator .....	19,281.51	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0414 DAY 11,000 LB Mini-Excavator With Full-Time Operator .....	1,166.82	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0415 WK 11,000 LB Mini-Excavator With Full-Time Operator .....	5,107.20	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0416 MO 11,000 LB Mini-Excavator With Full-Time Operator .....	19,313.96	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
<b>01 22 23 00-0417 Gradall, Telescopic Hydraulic Excavators</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0418 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....	1,729.78	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0419 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....	7,672.71	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0420 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....	30,193.96	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
<b>01 22 23 00-0421 Road Graders</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0422 DAY 60 HP Road Grader With Full-Time Operator .....	1,117.90	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0423 WK 60 HP Road Grader With Full-Time Operator .....	4,763.43	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0424 MO 60 HP Road Grader With Full-Time Operator .....	19,246.93	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0425 DAY 80 HP Road Grader With Full-Time Operator .....	1,224.04	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0426 WK 80 HP Road Grader With Full-Time Operator .....	5,058.78	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0427 MO 80 HP Road Grader With Full-Time Operator .....	20,142.19	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0428 DAY 130 HP Road Grader With Full-Time Operator .....	1,152.16	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0429 WK 130 HP Road Grader With Full-Time Operator .....	5,366.58	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0430 MO 130 HP Road Grader With Full-Time Operator .....	21,970.20	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
<b>01 22 23 00-0431 Loader-Backhoes With Standard Bucket</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0432 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	1,001.75	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0433 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	4,368.75	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0434 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	17,697.70	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0435 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	1,027.87	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0436 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	4,460.17	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0437 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	18,254.94	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0438 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	1,068.14	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0439 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	4,560.30	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0440 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	18,542.27	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0441 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	1,247.72	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0442 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	5,095.78	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0443 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	20,074.71	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
<b>01 22 23 00-0444 Heavy Duty Construction Loaders</b> <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0445 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,207.26	
<i>For Equipment Without Operator, Deduct</i>	-757.95	
01 22 23 00-0446 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	5,566.24	
<i>For Equipment Without Operator, Deduct</i>	-3,789.73	
01 22 23 00-0447 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	21,657.67	
<i>For Equipment Without Operator, Deduct</i>	-16,335.05	
01 22 23 00-0448 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,580.54	
<i>For Equipment Without Operator, Deduct</i>	-757.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0449 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,974.08 -3,789.73	
01 22 23 00-0450 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,865.05 -16,335.05	
01 22 23 00-0451 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,663.49 -757.95	
01 22 23 00-0452 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	6,195.28 -3,789.73	
01 22 23 00-0453 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	22,418.05 -16,335.05	
01 22 23 00-0454 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,891.60 -757.95	
01 22 23 00-0455 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	6,796.67 -3,789.73	
01 22 23 00-0456 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	23,938.80 -16,335.05	
01 22 23 00-0457 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,479.16 -757.95	
01 22 23 00-0458 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,660.75 -3,789.73	
01 22 23 00-0459 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	36,934.30 -16,335.05	
01 22 23 00-0460 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	6,350.09 -757.95	
01 22 23 00-0461 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,948.67 -3,789.73	
01 22 23 00-0462 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	65,823.09 -16,335.05	
<b>01 22 23 00-0463 Shoring</b> <small>(01 22 23 00-0261)</small>		
Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0464 Aluminum Hydraulic Shoring</b> <small>(01 22 23 00-0463)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0465 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	69.90	
01 22 23 00-0466 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	206.19	
01 22 23 00-0467 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	93.78	
01 22 23 00-0468 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	276.60	
01 22 23 00-0469 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	173.89	
01 22 23 00-0470 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring ..... Note: Up to 88" spread width.	512.97	
01 22 23 00-0471 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores .....	23.03	
01 22 23 00-0472 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores .....	36.84	
01 22 23 00-0473 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores .....	61.40	
<b>01 22 23 00-0474 Trench Boxes/Trench Shields</b> <small>(01 22 23 00-0261)</small>		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0475 WK 4' x 6' Trench Box With Up To 48" Spreaders .....	170.50	
01 22 23 00-0476 MO 4' x 6' Trench Box With Up To 48" Spreaders .....	511.50	
01 22 23 00-0477 WK 6' x 6' Trench Box With Up To 48" Spreaders .....	192.50	
01 22 23 00-0478 MO 6' x 6' Trench Box With Up To 48" Spreaders .....	577.50	
01 22 23 00-0479 WK 8' x 6' Trench Box With Up To 48" Spreaders .....	203.50	
01 22 23 00-0480 MO 8' x 6' Trench Box With Up To 48" Spreaders .....	610.50	
01 22 23 00-0481 WK 4' x 8' Trench Box With Up To 48" Spreaders .....	187.00	
01 22 23 00-0482 MO 4' x 8' Trench Box With Up To 48" Spreaders .....	561.00	
01 22 23 00-0483 WK 6' x 8' Trench Box With Up To 48" Spreaders .....	220.00	
01 22 23 00-0484 MO 6' x 8' Trench Box With Up To 48" Spreaders .....	660.00	
01 22 23 00-0485 WK 8' x 8' Trench Box With Up To 48" Spreaders .....	247.50	
01 22 23 00-0486 MO 8' x 8' Trench Box With Up To 48" Spreaders .....	742.50	
01 22 23 00-0487 WK 4' x 10' Trench Box With Up To 48" Spreaders .....	209.00	
01 22 23 00-0488 MO 4' x 10' Trench Box With Up To 48" Spreaders .....	627.00	
01 22 23 00-0489 WK 6' x 10' Trench Box With Up To 48" Spreaders .....	247.50	
01 22 23 00-0490 MO 6' x 10' Trench Box With Up To 48" Spreaders .....	742.50	
01 22 23 00-0491 WK 8' x 10' Trench Box With Up To 48" Spreaders .....	302.50	
01 22 23 00-0492 MO 8' x 10' Trench Box With Up To 48" Spreaders .....	902.00	
01 22 23 00-0493 WK 4' x 12' Trench Box With Up To 48" Spreaders .....	247.50	
01 22 23 00-0494 MO 4' x 12' Trench Box With Up To 48" Spreaders .....	742.50	
01 22 23 00-0495 WK 6' x 12' Trench Box With Up To 48" Spreaders .....	302.50	
01 22 23 00-0496 MO 6' x 12' Trench Box With Up To 48" Spreaders .....	907.50	
01 22 23 00-0497 WK 8' x 12' Trench Box With Up To 48" Spreaders .....	385.00	
01 22 23 00-0498 MO 8' x 12' Trench Box With Up To 48" Spreaders .....	1,155.00	
01 22 23 00-0499 WK 4' x 14' Trench Box With Up To 48" Spreaders .....	275.00	
01 22 23 00-0500 MO 4' x 14' Trench Box With Up To 48" Spreaders .....	825.00	
01 22 23 00-0501 WK 6' x 14' Trench Box With Up To 48" Spreaders .....	357.50	
01 22 23 00-0502 MO 6' x 14' Trench Box With Up To 48" Spreaders .....	1,072.50	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0503	WK		8' x 14' Trench Box With Up To 48" Spreaders .....	440.00	
01 22 23 00-0504	MO		8' x 14' Trench Box With Up To 48" Spreaders .....	1,320.00	
01 22 23 00-0505	WK		4' x 16' Trench Box With Up To 48" Spreaders .....	302.50	
01 22 23 00-0506	MO		4' x 16' Trench Box With Up To 48" Spreaders .....	907.50	
01 22 23 00-0507	WK		6' x 16' Trench Box With Up To 48" Spreaders .....	412.50	
01 22 23 00-0508	MO		6' x 16' Trench Box With Up To 48" Spreaders .....	1,237.50	
01 22 23 00-0509	WK		8' x 16' Trench Box With Up To 48" Spreaders .....	495.00	
01 22 23 00-0510	MO		8' x 16' Trench Box With Up To 48" Spreaders .....	1,485.00	
01 22 23 00-0511	WK		4' x 20' Trench Box With Up To 48" Spreaders .....	357.50	
01 22 23 00-0512	MO		4' x 20' Trench Box With Up To 48" Spreaders .....	1,072.50	
01 22 23 00-0513	WK		6' x 20' Trench Box With Up To 48" Spreaders .....	495.00	
01 22 23 00-0514	MO		6' x 20' Trench Box With Up To 48" Spreaders .....	1,485.00	
01 22 23 00-0515	WK		8' x 20' Trench Box With Up To 48" Spreaders .....	577.50	
01 22 23 00-0516	MO		8' x 20' Trench Box With Up To 48" Spreaders .....	1,732.50	
01 22 23 00-0517	WK		4' x 24' Trench Box With Up To 48" Spreaders .....	495.00	
01 22 23 00-0518	MO		4' x 24' Trench Box With Up To 48" Spreaders .....	1,485.00	
01 22 23 00-0519	WK		6' x 24' Trench Box With Up To 48" Spreaders .....	605.00	
01 22 23 00-0520	MO		6' x 24' Trench Box With Up To 48" Spreaders .....	1,815.00	
01 22 23 00-0521	WK		8' x 24' Trench Box With Up To 48" Spreaders .....	660.00	
01 22 23 00-0522	MO		8' x 24' Trench Box With Up To 48" Spreaders .....	1,980.00	
01 22 23 00-0523	WK		For Spreaders >48" To 84", Add .....	16.50	
01 22 23 00-0524	MO		For Spreaders >48" To 84", Add .....	49.50	
01 22 23 00-0525	WK		For Spreaders >84" To 120", Add .....	99.00	
01 22 23 00-0526	MO		For Spreaders >84" To 120", Add .....	297.00	
01 22 23 00-0527	WK		For Spreaders >120", Add .....	209.00	
01 22 23 00-0528	MO		For Spreaders >120", Add .....	627.00	
01 22 23 00-0529	WK		8' x 4' Manhole Box .....	259.88	
01 22 23 00-0530	MO		8' x 4' Manhole Box .....	779.63	
01 22 23 00-0531	WK		8' x 8' Manhole Box .....	371.25	
01 22 23 00-0532	MO		8' x 8' Manhole Box .....	1,113.75	
<b>01 22 23 00-0533</b>			<b>Trenchers</b> (01 22 23 00-0261)		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0534	DAY		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	1,088.61	
			For Equipment Without Operator, Deduct .....	-757.95	
01 22 23 00-0535	WK		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	4,916.03	
			For Equipment Without Operator, Deduct .....	-3,789.73	
01 22 23 00-0536	MO		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	19,434.95	
			For Equipment Without Operator, Deduct .....	-16,335.05	
01 22 23 00-0537	DAY		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	1,646.59	
			For Equipment Without Operator, Deduct .....	-757.95	
01 22 23 00-0538	WK		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	6,796.63	
			For Equipment Without Operator, Deduct .....	-3,789.73	
01 22 23 00-0539	MO		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	24,601.45	
			For Equipment Without Operator, Deduct .....	-16,335.05	
<b>01 22 23 00-0540</b>			<b>Portable Sediment Tank</b> (01 22 23 00-0261)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0541	WK		Portable Sediment Tank .....	115.19	
01 22 23 00-0542	MO		Portable Sediment Tank .....	337.90	
<b>01 22 23 00-0543</b>			<b>Heavy Equipment (Wood Ground Protection) Mats</b> (01 22 23 00-0261)		
			Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0261 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0544	DAY		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	17.60	
01 22 23 00-0545	WK		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	41.90	
01 22 23 00-0546	MO		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	88.00	
01 22 23 00-0547	DAY		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	18.48	
01 22 23 00-0548	WK		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	44.00	
01 22 23 00-0549	MO		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	92.40	
01 22 23 00-0550	Day		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	14.96	
01 22 23 00-0551	WK		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	35.20	
01 22 23 00-0552	MO		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	74.80	
01 22 23 00-0553	Day		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	16.72	
01 22 23 00-0554	WK		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	39.60	
01 22 23 00-0555	MO		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	83.60	
01 22 23 00-0556	Day		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	18.48	
01 22 23 00-0557	WK		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	44.00	
01 22 23 00-0558	MO		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	92.40	
01 22 23 00-0559	Day		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	20.24	
01 22 23 00-0560	WK		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	48.19	
01 22 23 00-0561	MO		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	101.20	
01 22 23 00-0562	Day		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	15.84	
01 22 23 00-0563	WK		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	44.00	
01 22 23 00-0564	MO		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	79.20	
01 22 23 00-0565	Day		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	18.48	
01 22 23 00-0566	WK		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	44.00	
01 22 23 00-0567	MO		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	92.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0568 Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	22.00	
01 22 23 00-0569 WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	48.40	
01 22 23 00-0570 MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	110.00	
01 22 23 00-0571 Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	23.76	
01 22 23 00-0572 WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	56.57	
01 22 23 00-0573 MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	118.80	
01 22 23 00-0574 Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	25.52	
01 22 23 00-0575 WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	60.76	
01 22 23 00-0576 MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	127.60	
01 22 23 00-0577 Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	26.40	
01 22 23 00-0578 WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	62.86	
01 22 23 00-0579 MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	132.00	
01 22 23 00-0580 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	8.47	
01 22 23 00-0581 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	21.16	
01 22 23 00-0582 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	63.49	
01 22 23 00-0583 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.12	
01 22 23 00-0584 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.30	
01 22 23 00-0585 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	75.90	
01 22 23 00-0586 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	11.56	
01 22 23 00-0587 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	28.89	
01 22 23 00-0588 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	86.68	
01 22 23 00-0589 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.32	
01 22 23 00-0590 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	30.80	
01 22 23 00-0591 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	92.40	
01 22 23 00-0592 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.08	
01 22 23 00-0593 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	35.20	
01 22 23 00-0594 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	105.60	
01 22 23 00-0595 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.18	
01 22 23 00-0596 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	40.45	
01 22 23 00-0597 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	121.35	
01 22 23 00-0598 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.45	
01 22 23 00-0599 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	31.12	
01 22 23 00-0600 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	93.37	
01 22 23 00-0601 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.85	
01 22 23 00-0602 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.14	
01 22 23 00-0603 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.41	
01 22 23 00-0604 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.57	
01 22 23 00-0605 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	36.43	
01 22 23 00-0606 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	109.30	
01 22 23 00-0607 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	24.30	
01 22 23 00-0608 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	60.76	
01 22 23 00-0609 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	182.28	
01 22 23 00-0610 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.91	
01 22 23 00-0611 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	64.77	
01 22 23 00-0612 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	194.30	
01 22 23 00-0613 <b>Electrical Equipment</b> (01 22 23)		
01 22 23 00-0614 <b>Tripod Mounted Floodlights</b> (01 22 23 00-0613)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0615 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	57.47	
01 22 23 00-0616 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	135.97	
01 22 23 00-0617 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	287.37	
01 22 23 00-0618 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	57.47	
01 22 23 00-0619 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	168.22	
01 22 23 00-0620 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	497.64	
01 22 23 00-0621 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	64.48	
01 22 23 00-0622 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	175.22	
01 22 23 00-0623 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	427.55	
01 22 23 00-0624 <b>Trailer Mounted Floodlights</b> (01 22 23 00-0613)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0625 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	161.21	
01 22 23 00-0626 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	357.46	
01 22 23 00-0627 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	770.99	
01 22 23 00-0628 <b>Generator Sets</b> (01 22 23 00-0613)		
01 22 23 00-0629 <b>Portable, Gas Or Diesel Powered Generator Sets</b> (01 22 23 00-0628)		
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0630 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....	52.27	
For LP Or NG Gas, Add	6.53	
For >160 To 320 Hours Usage Per Month, Add	26.14	
01 22 23 00-0631 WK 3.6 KW, 8 HP Gas Powered Generator Set.....	188.42	
For LP Or NG Gas, Add	23.55	
01 22 23 00-0632 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	522.71	
For LP Or NG Gas, Add	65.34	

<b>01</b>	<b>General Requirements</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0633 DAY 5 KW, 11 HP Gas Powered Generator Set .....	74.15	
For LP Or NG Gas, Add	9.27	
01 22 23 00-0634 WK 5 KW, 11 HP Gas Powered Generator Set .....	237.04	
For LP Or NG Gas, Add	29.63	
01 22 23 00-0635 MO 5 KW, 11 HP Gas Powered Generator Set .....	540.94	
For LP Or NG Gas, Add	67.62	
01 22 23 00-0636 DAY 6.5 KW, 13 HP Gas Powered Generator Set .....	94.82	
For LP Or NG Gas, Add	11.85	
01 22 23 00-0637 WK 6.5 KW, 13 HP Gas Powered Generator Set .....	255.28	
For LP Or NG Gas, Add	31.91	
01 22 23 00-0638 MO 6.5 KW, 13 HP Gas Powered Generator Set .....	705.05	
For LP Or NG Gas, Add	88.13	
01 22 23 00-0639 DAY 10 KW, 18 HP Gas Powered Generator Set .....	105.76	
For LP Or NG Gas, Add	13.22	
01 22 23 00-0640 WK 10 KW, 18 HP Gas Powered Generator Set .....	285.67	
For LP Or NG Gas, Add	35.71	
01 22 23 00-0641 MO 10 KW, 18 HP Gas Powered Generator Set .....	820.53	
For LP Or NG Gas, Add	102.57	
<b>01 22 23 00-0642 Towable, Diesel Powered Generator Sets</b> <small>(01 22 23 00-0628)</small>		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0643 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set .....	217.59	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	108.80	
For >16 To 24 Hours Usage Per Day, Add	217.59	
01 22 23 00-0644 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set .....	568.90	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	284.45	
For >80 Hours Usage Per Week, Add	568.90	
01 22 23 00-0645 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set .....	1,549.89	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	774.95	
For >320 Hours Usage Per Month, Add	1,549.89	
01 22 23 00-0646 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set .....	323.76	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	161.88	
For >16 To 24 Hours Usage Per Day, Add	323.76	
01 22 23 00-0647 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set .....	960.85	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	480.43	
For >80 Hours Usage Per Week, Add	960.85	
01 22 23 00-0648 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set .....	1,984.36	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	992.18	
For >320 Hours Usage Per Month, Add	1,984.36	
01 22 23 00-0649 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	355.10	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	177.55	
For >16 To 24 Hours Usage Per Day, Add	355.10	
01 22 23 00-0650 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	992.18	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	496.09	
For >80 Hours Usage Per Week, Add	992.18	
01 22 23 00-0651 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	2,193.24	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,096.62	
For >320 Hours Usage Per Month, Add	2,193.24	
01 22 23 00-0652 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	381.21	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	190.61	
For >16 To 24 Hours Usage Per Day, Add	381.21	
01 22 23 00-0653 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	1,044.40	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	522.20	
For >80 Hours Usage Per Week, Add	1,044.40	
01 22 23 00-0654 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....	2,506.56	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,253.28	
For >320 Hours Usage Per Month, Add	2,506.56	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0655 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	417.76	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	208.88	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	417.76	
01 22 23 00-0656 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,185.39	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	592.70	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,185.39	
01 22 23 00-0657 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,819.88	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,409.94	
<i>For &gt;320 Hours Usage Per Month, Add</i>	2,819.88	
01 22 23 00-0658 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	469.98	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	234.99	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	469.98	
01 22 23 00-0659 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,253.28	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	626.64	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,253.28	
01 22 23 00-0660 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,133.20	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,566.60	
<i>For &gt;320 Hours Usage Per Month, Add</i>	3,133.20	
01 22 23 00-0661 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	485.65	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	242.83	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	485.65	
01 22 23 00-0662 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,305.50	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	652.75	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,305.50	
01 22 23 00-0663 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,550.96	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,775.48	
<i>For &gt;320 Hours Usage Per Month, Add</i>	3,550.96	
01 22 23 00-0664 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	548.31	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	274.16	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	548.31	
01 22 23 00-0665 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,514.38	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	757.19	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,514.38	
01 22 23 00-0666 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,073.16	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,036.58	
<i>For &gt;320 Hours Usage Per Month, Add</i>	4,073.16	
01 22 23 00-0667 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	574.42	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	287.21	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	574.42	
01 22 23 00-0668 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,592.71	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	796.36	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,592.71	
01 22 23 00-0669 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,490.92	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,245.46	
<i>For &gt;320 Hours Usage Per Month, Add</i>	4,490.92	
01 22 23 00-0670 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	600.53	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	300.27	
<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	600.53	
01 22 23 00-0671 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,723.26	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	861.63	
<i>For &gt;80 Hours Usage Per Week, Add</i>	1,723.26	

<b>01</b>	<b>General Requirements</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0672 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,699.80	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,349.90	
For >320 Hours Usage Per Month, Add	4,699.80	
01 22 23 00-0673 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	626.64	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	313.32	
For >16 To 24 Hours Usage Per Day, Add	626.64	
01 22 23 00-0674 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,827.70	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	913.85	
For >80 Hours Usage Per Week, Add	1,827.70	
01 22 23 00-0675 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,908.68	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,454.34	
For >320 Hours Usage Per Month, Add	4,908.68	
01 22 23 00-0676 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	626.64	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	313.32	
For >16 To 24 Hours Usage Per Day, Add	626.64	
01 22 23 00-0677 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,827.70	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	913.85	
For >80 Hours Usage Per Week, Add	1,827.70	
01 22 23 00-0678 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,908.68	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,454.34	
For >320 Hours Usage Per Month, Add	4,908.68	
01 22 23 00-0679 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	861.63	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	430.82	
For >16 To 24 Hours Usage Per Day, Add	861.63	
01 22 23 00-0680 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,141.02	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,070.51	
For >80 Hours Usage Per Week, Add	2,141.02	
01 22 23 00-0681 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,266.40	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,133.20	
For >320 Hours Usage Per Month, Add	6,266.40	
01 22 23 00-0682 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	913.85	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	456.93	
For >16 To 24 Hours Usage Per Day, Add	913.85	
01 22 23 00-0683 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,193.24	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,096.62	
For >80 Hours Usage Per Week, Add	2,193.24	
01 22 23 00-0684 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,475.28	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,237.64	
For >320 Hours Usage Per Month, Add	6,475.28	
01 22 23 00-0685 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	966.07	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	483.04	
For >16 To 24 Hours Usage Per Day, Add	966.07	
01 22 23 00-0686 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,245.46	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,122.73	
For >80 Hours Usage Per Week, Add	2,245.46	
01 22 23 00-0687 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,684.16	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,342.08	
For >320 Hours Usage Per Month, Add	6,684.16	
01 22 23 00-0688 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	997.40	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	498.70	
For >16 To 24 Hours Usage Per Day, Add	997.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0689 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,402.12	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,201.06	
For >80 Hours Usage Per Week, Add	2,402.12	
01 22 23 00-0690 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,101.92	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,550.96	
For >320 Hours Usage Per Month, Add	7,101.92	
01 22 23 00-0691 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,044.40	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	522.20	
For >16 To 24 Hours Usage Per Day, Add	1,044.40	
01 22 23 00-0692 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,715.44	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,357.72	
For >80 Hours Usage Per Week, Add	2,715.44	
01 22 23 00-0693 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,833.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,916.50	
For >320 Hours Usage Per Month, Add	7,833.00	
01 22 23 00-0694 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,140.05	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	570.03	
For >16 To 24 Hours Usage Per Day, Add	1,140.05	
01 22 23 00-0695 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,947.56	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,473.78	
For >80 Hours Usage Per Week, Add	2,947.56	
01 22 23 00-0696 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,795.20	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,897.60	
For >320 Hours Usage Per Month, Add	7,795.20	
01 22 23 00-0697 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,461.60	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	730.80	
For >16 To 24 Hours Usage Per Day, Add	1,461.60	
01 22 23 00-0698 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,800.16	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,900.08	
For >80 Hours Usage Per Week, Add	3,800.16	
01 22 23 00-0699 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,769.60	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	4,384.80	
For >320 Hours Usage Per Month, Add	8,769.60	
01 22 23 00-0700 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,807.51	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	903.76	
For >16 To 24 Hours Usage Per Day, Add	1,807.51	
01 22 23 00-0701 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,774.56	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,387.28	
For >80 Hours Usage Per Week, Add	4,774.56	
01 22 23 00-0702 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	11,692.80	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,846.40	
For >320 Hours Usage Per Month, Add	11,692.80	
01 22 23 00-0703 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,953.67	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	976.84	
For >16 To 24 Hours Usage Per Day, Add	1,953.67	
01 22 23 00-0704 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,501.73	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,250.87	
For >80 Hours Usage Per Week, Add	4,501.73	
01 22 23 00-0705 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	13,505.18	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,752.59	
For >320 Hours Usage Per Month, Add	13,505.18	
01 22 23 00-0706 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	802.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0707 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,291.53	
<b>01 22 23 00-0708 Cabling For Generator Sets</b> (01 22 23 00-0628)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0709 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	22.98	
01 22 23 00-0710 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	40.21	
01 22 23 00-0711 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	120.63	
01 22 23 00-0712 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.49	
01 22 23 00-0713 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	33.42	
01 22 23 00-0714 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	92.95	
<b>01 22 23 00-0715 Resistive Loadbanks For Generator Sets</b> (01 22 23 00-0628)		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0716 DAY 100 KW A/C Resistive Loadbank.....	362.37	
01 22 23 00-0717 WK 100 KW A/C Resistive Loadbank.....	894.35	
01 22 23 00-0718 MO 100 KW A/C Resistive Loadbank.....	2,675.34	
01 22 23 00-0719 DAY 650 KW A/C Resistive Loadbank.....	610.62	
01 22 23 00-0720 WK 650 KW A/C Resistive Loadbank.....	1,632.96	
01 22 23 00-0721 MO 650 KW A/C Resistive Loadbank.....	4,163.35	
<b>01 22 23 00-0722 Sub-Distribution Panels (Spider Box) For Generator Sets</b> (01 22 23 00-0628)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0723 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	56.40	
01 22 23 00-0724 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	146.22	
01 22 23 00-0725 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	412.54	
<b>01 22 23 00-0726 Portable Distribution Panels For Generator Sets</b> (01 22 23 00-0628)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0727 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	125.33	
01 22 23 00-0728 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	339.43	
01 22 23 00-0729 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	950.40	
01 22 23 00-0730 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	102.35	
01 22 23 00-0731 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	266.32	
01 22 23 00-0732 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	757.19	
01 22 23 00-0733 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	130.55	
01 22 23 00-0734 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	328.99	
01 22 23 00-0735 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	892.96	
<b>01 22 23 00-0736 Fuel Reimbursement For Generators</b> (01 22 23 00-0628)		
01 22 23 00-0737 EA Fuel Reimbursement For Generators.....	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
<b>01 22 23 00-0738 Generator Accessories</b> (01 22 23 00-0628)		
Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0739 Step Down Transformer</b> (01 22 23 00-0738)		
01 22 23 00-0740 WK 75 KVA, 480-208 Volt, Step Down Transformer.....	308.10	
01 22 23 00-0741 MO 75 KVA, 480-208 Volt, Step Down Transformer.....	861.63	
01 22 23 00-0742 WK 150 KVA, 480-208 Volt, Step Down Transformer.....	494.00	
01 22 23 00-0743 MO 150 KVA, 480-208 Volt, Step Down Transformer.....	1,480.96	
01 22 23 00-0744 WK 225 KVA, 480-208 Volt, Step Down Transformer.....	657.97	
01 22 23 00-0745 MO 225 KVA, 480-208 Volt, Step Down Transformer.....	1,973.92	
01 22 23 00-0746 WK 500 KVA, 480-208 Volt, Step Down Transformer.....	783.30	
01 22 23 00-0747 MO 500 KVA, 480-208 Volt, Step Down Transformer.....	2,349.90	
01 22 23 00-0748 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,169.73	
01 22 23 00-0749 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,493.52	
01 22 23 00-0750 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	1,900.81	
01 22 23 00-0751 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	5,697.20	
01 22 23 00-0752 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,193.24	
01 22 23 00-0753 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	6,579.72	
<b>01 22 23 00-0754 Portable Panel</b> (01 22 23 00-0738)		
01 22 23 00-0755 WK 100 Amperes, Portable Panel.....	245.43	
01 22 23 00-0756 MO 100 Amperes, Portable Panel.....	626.64	
01 22 23 00-0757 WK 200 Amperes, Portable Panel.....	293.48	
01 22 23 00-0758 MO 200 Amperes, Portable Panel.....	783.30	
01 22 23 00-0759 WK 400 Amperes, Portable Panel.....	313.32	
01 22 23 00-0760 MO 400 Amperes, Portable Panel.....	939.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0761</b> <b>Portable Fusible Disconnect</b> <small>(01 22 23 00-0738)</small>		
01 22 23 00-0762    WK    100 - 200 Amperes, Portable Fusible Disconnect.....	109.66	
01 22 23 00-0763    MO    100 - 200 Amperes, Portable Fusible Disconnect.....	328.99	
01 22 23 00-0764    WK    300 - 400 Amperes, Portable Fusible Disconnect.....	219.32	
01 22 23 00-0765    MO    300 - 400 Amperes, Portable Fusible Disconnect.....	657.97	
<b>01 22 23 00-0766</b> <b>Portable Transfer Switch</b> <small>(01 22 23 00-0738)</small>		
01 22 23 00-0767    WK    100 Amperes, 480 Volt, Portable Transfer Switch.....	328.99	
01 22 23 00-0768    MO    100 Amperes, 480 Volt, Portable Transfer Switch.....	986.96	
01 22 23 00-0769    WK    200 Amperes, 480 Volt, Portable Transfer Switch.....	438.65	
01 22 23 00-0770    MO    200 Amperes, 480 Volt, Portable Transfer Switch.....	1,315.94	
01 22 23 00-0771    WK    400 Amperes, 480 Volt, Portable Transfer Switch.....	548.31	
01 22 23 00-0772    MO    400 Amperes, 480 Volt, Portable Transfer Switch.....	1,644.93	
<b>01 22 23 00-0773</b> <b>Welding Machines</b> <small>(01 22 23 00-0613)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
<b>01 22 23 00-0774</b> <b>Diesel Powered Towable Welding Machines</b> <small>(01 22 23 00-0773)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0775    DAY    250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	117.29	
01 22 23 00-0776    WK    250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	286.70	
01 22 23 00-0777    MO    250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	684.18	
01 22 23 00-0778    DAY    300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	156.38	
01 22 23 00-0779    WK    300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	306.25	
01 22 23 00-0780    MO    300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	715.46	
01 22 23 00-0781    DAY    350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	162.90	
01 22 23 00-0782    WK    350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	325.80	
01 22 23 00-0783    MO    350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	794.95	
<b>01 22 23 00-0784</b> <b>General Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-0785</b> <b>Jacks And Bracing</b> <small>(01 22 23 00-0784)</small>		
Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0786</b> <b>Manual Hydraulic Jacks</b> <small>(01 22 23 00-0785)</small>		
01 22 23 00-0787    DAY    12 Ton Manual Hydraulic Bottle Jack.....	1.33	
01 22 23 00-0788    WK    12 Ton Manual Hydraulic Bottle Jack.....	6.33	
01 22 23 00-0789    MO    12 Ton Manual Hydraulic Bottle Jack.....	22.76	
01 22 23 00-0790    DAY    20 Ton Manual Hydraulic Bottle Jack.....	2.33	
01 22 23 00-0791    WK    20 Ton Manual Hydraulic Bottle Jack.....	7.33	
01 22 23 00-0792    MO    20 Ton Manual Hydraulic Bottle Jack.....	27.76	
01 22 23 00-0793    DAY    50 Ton Manual Hydraulic Bottle Jack.....	8.33	
01 22 23 00-0794    WK    50 Ton Manual Hydraulic Bottle Jack.....	32.34	
01 22 23 00-0795    MO    50 Ton Manual Hydraulic Bottle Jack.....	116.34	
01 22 23 00-0796    DAY    100 Ton Manual Hydraulic Bottle Jack.....	11.67	
01 22 23 00-0797    WK    100 Ton Manual Hydraulic Bottle Jack.....	46.67	
01 22 23 00-0798    MO    100 Ton Manual Hydraulic Bottle Jack.....	168.10	
<b>01 22 23 00-0799</b> <b>Manual Screw Jacks</b> <small>(01 22 23 00-0785)</small>		
01 22 23 00-0800    DAY    10 To 20 Ton Manual Screw Jack.....	15.73	
01 22 23 00-0801    WK    10 To 20 Ton Manual Screw Jack.....	42.36	
01 22 23 00-0802    MO    10 To 20 Ton Manual Screw Jack.....	117.40	
<b>01 22 23 00-0803</b> <b>Pressure Washers</b> <small>(01 22 23 00-0784)</small>		
Note: Includes full-time operator, delivery, set-up, and removal.		
01 22 23 00-0804    DAY    2,000 PSI Pressure Washer With Full-Time Operator.....	710.60	
<i>For Equipment Without Operator, Deduct</i>		
	-585.34	
01 22 23 00-0805    WK    2,000 PSI Pressure Washer With Full-Time Operator.....	3,244.66	
<i>For Equipment Without Operator, Deduct</i>		
	-2,926.70	
01 22 23 00-0806    MO    2,000 PSI Pressure Washer With Full-Time Operator.....	13,424.41	
<i>For Equipment Without Operator, Deduct</i>		
	-12,615.07	
01 22 23 00-0807    DAY    2,500 PSI Pressure Washer With Full-Time Operator.....	672.81	
<i>For Equipment Without Operator, Deduct</i>		
	-585.34	
01 22 23 00-0808    WK    2,500 PSI Pressure Washer With Full-Time Operator.....	3,148.74	
<i>For Equipment Without Operator, Deduct</i>		
	-2,926.70	
01 22 23 00-0809    MO    2,500 PSI Pressure Washer With Full-Time Operator.....	13,180.26	
<i>For Equipment Without Operator, Deduct</i>		
	-12,615.07	
01 22 23 00-0810    DAY    3,000 PSI Pressure Washer With Full-Time Operator.....	710.60	
<i>For Equipment Without Operator, Deduct</i>		
	-585.34	
01 22 23 00-0811    WK    3,000 PSI Pressure Washer With Full-Time Operator.....	3,244.66	
<i>For Equipment Without Operator, Deduct</i>		
	-2,926.70	
01 22 23 00-0812    MO    3,000 PSI Pressure Washer With Full-Time Operator.....	13,424.41	
<i>For Equipment Without Operator, Deduct</i>		
	-12,615.07	
01 22 23 00-0813    DAY    3,500 PSI Pressure Washer With Full-Time Operator.....	679.54	
<i>For Equipment Without Operator, Deduct</i>		
	-585.34	
01 22 23 00-0814    WK    3,500 PSI Pressure Washer With Full-Time Operator.....	3,168.93	
<i>For Equipment Without Operator, Deduct</i>		
	-2,926.70	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0815 MO 3,500 PSI Pressure Washer With Full-Time Operator.....	13,234.09	
<i>For Equipment Without Operator, Deduct</i>	-12,615.07	
01 22 23 00-0816 DAY 4,000 PSI Pressure Washer With Full-Time Operator.....	758.77	
<i>For Equipment Without Operator, Deduct</i>	-585.34	
01 22 23 00-0817 WK 4,000 PSI Pressure Washer With Full-Time Operator.....	3,398.82	
<i>For Equipment Without Operator, Deduct</i>	-2,926.70	
01 22 23 00-0818 MO 4,000 PSI Pressure Washer With Full-Time Operator.....	13,935.07	
<i>For Equipment Without Operator, Deduct</i>	-12,615.07	
01 22 23 00-0819 DAY 5,000 PSI Pressure Washer With Full-Time Operator.....	719.91	
<i>For Equipment Without Operator, Deduct</i>	-585.34	
01 22 23 00-0820 WK 5,000 PSI Pressure Washer With Full-Time Operator.....	3,290.04	
<i>For Equipment Without Operator, Deduct</i>	-2,926.70	
01 22 23 00-0821 MO 5,000 PSI Pressure Washer With Full-Time Operator.....	13,637.80	
<i>For Equipment Without Operator, Deduct</i>	-12,615.07	
<b>01 22 23 00-0822 Confined Space Entry Equipment (01 22 23 00-0784)</b>		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0823 DAY Ventilation Equipment For Confined Space.....	39.87	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0824 WK Ventilation Equipment For Confined Space.....	119.62	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0825 MO Ventilation Equipment For Confined Space.....	356.97	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0826 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	36.81	
01 22 23 00-0827 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	110.43	
01 22 23 00-0828 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	331.28	
01 22 23 00-0829 DAY Confined Space Air Monitor Personnel.....	715.86	
Note: Per person day.		
<b>01 22 23 00-0830 Mowers (01 22 23 00-0784)</b>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0831 DAY 21" Walk Behind Lawn Mower.....	53.83	
01 22 23 00-0832 WK 21" Walk Behind Lawn Mower.....	154.76	
01 22 23 00-0833 MO 21" Walk Behind Lawn Mower.....	316.24	
01 22 23 00-0834 DAY 32" Walk Behind Lawn Mower.....	67.28	
01 22 23 00-0835 WK 32" Walk Behind Lawn Mower.....	161.48	
01 22 23 00-0836 MO 32" Walk Behind Lawn Mower.....	336.42	
01 22 23 00-0837 DAY 36" To 48" Walk Behind Deck Mower.....	121.11	
01 22 23 00-0838 WK 36" To 48" Walk Behind Deck Mower.....	336.42	
01 22 23 00-0839 MO 36" To 48" Walk Behind Deck Mower.....	975.63	
01 22 23 00-0840 DAY 61" To 72" Walk Behind Deck Mower.....	121.11	
01 22 23 00-0841 WK 61" To 72" Walk Behind Deck Mower.....	336.42	
01 22 23 00-0842 MO 61" To 72" Walk Behind Deck Mower.....	975.63	
<b>01 22 23 00-0843 Material Handling Equipment (01 22 23)</b>		
<b>01 22 23 00-0844 Truck Mounted Hydraulic Cranes (01 22 23 00-0843)</b>		
Note: Includes full-time operator. Include delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0845 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,182.74	
<i>For Equipment Without Operator, Deduct</i>	-769.33	
01 22 23 00-0846 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,099.04	
<i>For Equipment Without Operator, Deduct</i>	-3,846.66	
01 22 23 00-0847 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	20,349.74	
<i>For Equipment Without Operator, Deduct</i>	-16,580.45	
01 22 23 00-0848 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,292.17	
<i>For Equipment Without Operator, Deduct</i>	-769.33	
01 22 23 00-0849 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,424.29	
<i>For Equipment Without Operator, Deduct</i>	-3,846.66	
01 22 23 00-0850 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	21,322.46	
<i>For Equipment Without Operator, Deduct</i>	-16,580.45	
01 22 23 00-0851 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,401.60	
<i>For Equipment Without Operator, Deduct</i>	-769.33	
01 22 23 00-0852 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,749.54	
<i>For Equipment Without Operator, Deduct</i>	-3,846.66	
01 22 23 00-0853 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	22,295.18	
<i>For Equipment Without Operator, Deduct</i>	-16,580.45	
01 22 23 00-0854 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,547.51	
<i>For Equipment Without Operator, Deduct</i>	-769.33	
01 22 23 00-0855 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	6,187.27	
<i>For Equipment Without Operator, Deduct</i>	-3,846.66	
01 22 23 00-0856 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	23,602.27	
<i>For Equipment Without Operator, Deduct</i>	-16,580.45	
01 22 23 00-0857 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,681.25	
<i>For Equipment Without Operator, Deduct</i>	-769.33	
01 22 23 00-0858 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	7,093.11	
<i>For Equipment Without Operator, Deduct</i>	-3,846.66	
01 22 23 00-0859 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	26,317.38	
<i>For Equipment Without Operator, Deduct</i>	-16,580.45	
01 22 23 00-0860 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,997.39	
<i>For Equipment Without Operator, Deduct</i>	-769.33	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0861 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	8,223.90 -3,846.66	
01 22 23 00-0862 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	29,712.17 -16,580.45	
01 22 23 00-0863 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,198.01 -769.33	
01 22 23 00-0864 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	8,929.12 -3,846.66	
01 22 23 00-0865 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	31,832.70 -16,580.45	
01 22 23 00-0866 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,356.08 -769.33	
01 22 23 00-0867 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	9,500.60 -3,846.66	
01 22 23 00-0868 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	33,544.69 -16,580.45	
01 22 23 00-0869 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,514.15 -769.33	
01 22 23 00-0870 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,072.07 -3,846.66	
01 22 23 00-0871 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	35,256.67 -16,580.45	
01 22 23 00-0872 DAY 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,617.50 -769.33	
01 22 23 00-0873 WK 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,424.68 -3,846.66	
01 22 23 00-0874 MO 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	36,326.67 -16,580.45	
01 22 23 00-0875 DAY 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,745.95 -757.95	
01 22 23 00-0876 WK 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,890.59 -3,789.73	
01 22 23 00-0877 MO 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	37,637.62 -16,335.05	
<b>01 22 23 00-0878 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes</b> <small>(01 22 23 00-0843)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0879 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,228.41 -769.33	
01 22 23 00-0880 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	9,050.71 -3,846.66	
01 22 23 00-0881 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	32,192.61 -16,580.45	
01 22 23 00-0882 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	3,353.12 -769.33	
01 22 23 00-0883 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,923.20 -3,846.66	
01 22 23 00-0884 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	37,810.06 -16,580.45	
01 22 23 00-0885 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	3,535.50 -769.33	
01 22 23 00-0886 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	12,254.61 -3,846.66	
01 22 23 00-0887 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	41,803.08 -16,580.45	
01 22 23 00-0888 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	3,900.27 -769.33	
01 22 23 00-0889 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	13,586.02 -3,846.66	
01 22 23 00-0890 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	45,791.23 -16,580.45	
01 22 23 00-0891 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,246.80 -769.33	
01 22 23 00-0892 WK 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	16,248.84 -3,846.66	
01 22 23 00-0893 MO 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	53,786.99 -16,580.45	
01 22 23 00-0894 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,818.28 -769.33	
01 22 23 00-0895 WK 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,297.63 -3,846.66	
01 22 23 00-0896 MO 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	59,924.85 -16,580.45	
01 22 23 00-0897 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	8,332.23 -769.33	
01 22 23 00-0898 WK 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	30,821.40 -3,846.66	
01 22 23 00-0899 MO 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	97,510.75 -16,580.45	
<b>01 22 23 00-0900 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0843)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0901 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,329.22	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
01 22 23 00-0902 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,080.43	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
01 22 23 00-0903 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	18,656.30	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
01 22 23 00-0904 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,393.78	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
01 22 23 00-0905 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,225.70	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
01 22 23 00-0906 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	18,979.12	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
01 22 23 00-0907 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,377.64	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
01 22 23 00-0908 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,298.34	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
01 22 23 00-0909 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	19,463.35	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
01 22 23 00-0910 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,563.26	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
01 22 23 00-0911 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,782.57	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
01 22 23 00-0912 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	20,593.22	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<b>01 22 23 00-0913 Straight Mast, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0843)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0914 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,114.54	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	79.74	
01 22 23 00-0915 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,668.03	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	217.74	
01 22 23 00-0916 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	17,919.87	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	498.35	
01 22 23 00-0917 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,135.53	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	83.93	
01 22 23 00-0918 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,725.33	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	229.20	
01 22 23 00-0919 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	18,051.01	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	524.58	
01 22 23 00-0920 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,248.51	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	106.53	
01 22 23 00-0921 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,040.08	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	292.15	
01 22 23 00-0922 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	18,777.36	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	669.85	
01 22 23 00-0923 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,310.74	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	118.98	
01 22 23 00-0924 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,013.12	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	286.76	
01 22 23 00-0925 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	18,997.36	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	713.85	
<b>01 22 23 00-0926 Straight Mast, Industrial Warehouse Forklifts</b> <small>(01 22 23 00-0843)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0927 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,054.82	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	67.79	
01 22 23 00-0928 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,354.09	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	154.95	
01 22 23 00-0929 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	17,284.32	
<i>For Equipment Without Operator, Deduct</i>	-15,428.10	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	371.24	
01 22 23 00-0930 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,062.89	
<i>For Equipment Without Operator, Deduct</i>	-715.86	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	69.41	
01 22 23 00-0931 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,378.30	
<i>For Equipment Without Operator, Deduct</i>	-3,579.32	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	159.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0932	MO		6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,340.81 -15,428.10	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	382.54	
01 22 23 00-0933	DAY		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,232.37 -715.86	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	103.30	
01 22 23 00-0934	WK		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,749.54 -3,579.32	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	234.04	
01 22 23 00-0935	MO		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,252.78 -15,428.10	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	564.94	
01 22 23 00-0936	DAY		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,248.51 -715.86	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	106.53	
01 22 23 00-0937	WK		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,886.74 -3,579.32	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	261.48	
01 22 23 00-0938	MO		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,737.00 -15,428.10	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	661.78	
01 22 23 00-0939	DAY		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,393.78 -715.86	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	135.58	
01 22 23 00-0940	WK		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,120.79 -3,579.32	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	308.29	
01 22 23 00-0941	MO		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,140.53 -15,428.10	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	742.49	
<b>01 22 23 00-0942 Chain Hoists (01 22 23 00-0843)</b>					
Note: Includes delivery to job site and pick-up when complete.					
01 22 23 00-0943	DAY		1 Ton, 20' Lift, Manual Chain Hoist	10.00	
01 22 23 00-0944	WK		1 Ton, 20' Lift, Manual Chain Hoist	26.00	
01 22 23 00-0945	MO		1 Ton, 20' Lift, Manual Chain Hoist	77.00	
01 22 23 00-0946	DAY		3 Ton, 20' Lift, Manual Chain Hoist	28.00	
01 22 23 00-0947	WK		3 Ton, 20' Lift, Manual Chain Hoist	66.00	
01 22 23 00-0948	MO		3 Ton, 20' Lift, Manual Chain Hoist	185.00	
01 22 23 00-0949	DAY		5 Ton, 20' Lift, Manual Chain Hoist	36.00	
01 22 23 00-0950	WK		5 Ton, 20' Lift, Manual Chain Hoist	97.00	
01 22 23 00-0951	MO		5 Ton, 20' Lift, Manual Chain Hoist	270.00	
01 22 23 00-0952	DAY		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	71.00	
01 22 23 00-0953	WK		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	185.00	
01 22 23 00-0954	MO		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	500.00	
01 22 23 00-0955	DAY		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	72.00	
01 22 23 00-0956	WK		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	192.50	
01 22 23 00-0957	MO		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	525.00	
01 22 23 00-0958	DAY		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	74.00	
01 22 23 00-0959	WK		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	207.50	
01 22 23 00-0960	MO		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	575.00	
<b>01 22 23 00-0961 Roof Swing Hoist (01 22 23 00-0843)</b>					
Note: Includes delivery to job site and pick-up when complete.					
01 22 23 00-0962	DAY		Up To 400#, Manual Swing Roof Hoist	57.54	
01 22 23 00-0963	WK		Up To 400#, Manual Swing Roof Hoist	201.39	
01 22 23 00-0964	MO		Up To 400#, Manual Swing Roof Hoist	690.48	
<b>01 22 23 00-0965 Pumping Equipment (01 22 23)</b>					
<b>01 22 23 00-0966 Gas Powered Portable Centrifugal Pumps (01 22 23 00-0965)</b>					
Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0990 for larger diameter pumps.					
01 22 23 00-0967	DAY		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	67.29	
01 22 23 00-0968	WK		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	151.41	
01 22 23 00-0969	MO		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	403.75	
01 22 23 00-0970	DAY		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	80.75	
01 22 23 00-0971	WK		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	181.69	
01 22 23 00-0972	MO		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	484.50	
<b>01 22 23 00-0973 Gas Powered Portable Diaphragm Pumps (01 22 23 00-0965)</b>					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0974	DAY		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	77.39	
01 22 23 00-0975	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	218.70	
01 22 23 00-0976	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	555.16	
01 22 23 00-0977	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	94.21	
01 22 23 00-0978	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	252.34	
01 22 23 00-0979	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	714.98	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>01 22 23 00-0980</b>	<b>Gas Powered Portable Trash Pumps</b> (01 22 23 00-0965)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-0981	DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump .....	97.57
01 22 23 00-0982	WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump .....	201.88
01 22 23 00-0983	MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump .....	605.63
01 22 23 00-0984	DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump .....	97.57
01 22 23 00-0985	WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump .....	260.76
01 22 23 00-0986	MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump .....	714.98
01 22 23 00-0987	DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump .....	154.77
01 22 23 00-0988	WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump .....	437.40
01 22 23 00-0989	MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump .....	1,270.14

<b>01 22 23 00-0990</b>	<b>Diesel Powered Portable Trash Pumps</b> (01 22 23 00-0965)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-0991	DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump .....	302.81
01 22 23 00-0992	WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump .....	824.33
01 22 23 00-0993	MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump .....	3,591.71
01 22 23 00-0994	DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	462.63
01 22 23 00-0995	WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	1,211.26
01 22 23 00-0996	MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	3,221.60
01 22 23 00-0997	DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	629.18
01 22 23 00-0998	WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	1,683.98
01 22 23 00-0999	MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....	4,505.20
01 22 23 00-1000	DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....	814.23
01 22 23 00-1001	WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....	2,079.32
01 22 23 00-1002	MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....	6,106.75

<b>01 22 23 00-1003</b>	<b>Diesel Powered Portable Silenced Environmental Trash Pumps</b> (01 22 23 00-0965)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1004	DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	432.35
01 22 23 00-1005	WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	984.15
01 22 23 00-1006	MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	3,068.52
01 22 23 00-1007	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	529.92
01 22 23 00-1008	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	1,320.61
01 22 23 00-1009	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	3,591.71
01 22 23 00-1010	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	639.27
01 22 23 00-1011	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	1,890.91
01 22 23 00-1012	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	5,274.01
01 22 23 00-1013	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	962.28
01 22 23 00-1014	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	2,457.84
01 22 23 00-1015	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....	7,217.07

<b>01 22 23 00-1016</b>	<b>3 Phase Electric Submersible Pumps</b> (01 22 23 00-0965)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1017	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....	168.23
01 22 23 00-1018	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....	420.58
01 22 23 00-1019	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....	1,261.72
01 22 23 00-1020	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....	222.06
01 22 23 00-1021	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....	555.16
01 22 23 00-1022	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....	1,665.48

<b>01 22 23 00-1023</b>	<b>Suction Hose With Couplings</b> (01 22 23 00-0965)	
	Note: Includes delivery, set-up, and removal.	
01 22 23 00-1024	DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....	6.00
01 22 23 00-1025	WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....	15.00
01 22 23 00-1026	MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....	46.00
01 22 23 00-1027	DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....	16.00
01 22 23 00-1028	WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....	41.00
01 22 23 00-1029	MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....	125.00
01 22 23 00-1030	DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....	24.00
01 22 23 00-1031	WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....	61.00
01 22 23 00-1032	MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....	185.00
01 22 23 00-1033	DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....	30.00
01 22 23 00-1034	WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....	75.00
01 22 23 00-1035	MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....	220.00
01 22 23 00-1036	DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....	70.00
01 22 23 00-1037	WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....	180.00
01 22 23 00-1038	MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....	530.00
01 22 23 00-1039	DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....	94.00
01 22 23 00-1040	WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....	205.00
01 22 23 00-1041	MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....	615.00





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>01 22 23 00-1042</b>			<b>Discharge Hose With Couplings</b> (01 22 23 00-0965)		
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1043	DAY	1-1/2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	6.00	
01 22 23 00-1044	WK	1-1/2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	15.00	
01 22 23 00-1045	MO	1-1/2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	46.00	
01 22 23 00-1046	DAY	2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	7.00	
01 22 23 00-1047	WK	2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	17.00	
01 22 23 00-1048	MO	2"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	53.00	
01 22 23 00-1049	DAY	3"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	8.00	
01 22 23 00-1050	WK	3"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	20.00	
01 22 23 00-1051	MO	3"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	61.00	
01 22 23 00-1052	DAY	4"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	21.00	
01 22 23 00-1053	WK	4"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	54.00	
01 22 23 00-1054	MO	4"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	155.00	
01 22 23 00-1055	DAY	6"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	26.00	
01 22 23 00-1056	WK	6"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	71.00	
01 22 23 00-1057	MO	6"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	195.00	
01 22 23 00-1058	DAY	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	20.00	
01 22 23 00-1059	WK	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	50.00	
01 22 23 00-1060	MO	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	150.00	
01 22 23 00-1061	DAY	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	51.00	
01 22 23 00-1062	WK	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	130.00	
01 22 23 00-1063	MO	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	385.00	

**01 22 23 00-1064**      **Hydraulic Submersible Pumps** (01 22 23 00-0965)  
 Note: Includes delivery, set-up, and removal. Excludes operator.

<b>01 22 23 00-1065</b>			<b>Hydraulic Submersible Pumps</b> (01 22 23 00-1064)		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1066	DAY	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	111.03	
01 22 23 00-1067	WK	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	297.77	
01 22 23 00-1068	MO	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	832.74	
01 22 23 00-1069	DAY	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	141.31	
01 22 23 00-1070	WK	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	363.38	
01 22 23 00-1071	MO	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	1,110.32	

**01 22 23 00-1072**      **Hydraulic Submersible Pump Diesel Power Packs** (01 22 23 00-1064)  
 Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1073	DAY	100	HP, Hydraulic Submersible Pump Diesel Power Pack .....	256.55	
01 22 23 00-1074	WK	100	HP, Hydraulic Submersible Pump Diesel Power Pack .....	765.45	
01 22 23 00-1075	MO	100	HP, Hydraulic Submersible Pump Diesel Power Pack .....	2,018.76	

**01 22 23 00-1076**      **HDPE Pipe With Couplings** (01 22 23 00-0965)  
 Note: Includes delivery, set-up, and removal.

01 22 23 00-1077	DAY	4" x 20'	HDPE Pipe With Couplings .....	5.00	
01 22 23 00-1078	WK	4" x 20'	HDPE Pipe With Couplings .....	12.00	
01 22 23 00-1079	MON	4" x 20'	HDPE Pipe With Couplings .....	37.00	
01 22 23 00-1080	DAY	6" x 20'	HDPE Pipe With Couplings .....	8.00	
01 22 23 00-1081	WK	6" x 20'	HDPE Pipe With Couplings .....	20.00	
01 22 23 00-1082	MON	6" x 20'	HDPE Pipe With Couplings .....	61.00	
01 22 23 00-1083	DAY	8" x 20'	HDPE Pipe With Couplings .....	13.00	
01 22 23 00-1084	WK	8" x 20'	HDPE Pipe With Couplings .....	34.00	
01 22 23 00-1085	MON	8" x 20'	HDPE Pipe With Couplings .....	101.00	
01 22 23 00-1086	DAY	10" x 20'	HDPE Pipe With Couplings .....	16.00	
01 22 23 00-1087	WK	10" x 20'	HDPE Pipe With Couplings .....	41.00	
01 22 23 00-1088	MON	10" x 20'	HDPE Pipe With Couplings .....	125.00	
01 22 23 00-1089	DAY	12" x 10'	HDPE Pipe With Couplings .....	12.00	
01 22 23 00-1090	WK	12" x 10'	HDPE Pipe With Couplings .....	33.00	
01 22 23 00-1091	MON	12" x 10'	HDPE Pipe With Couplings .....	100.00	
01 22 23 00-1092	DAY	4" Elbow	For HDPE Pipe, Quick Connect .....	12.00	
01 22 23 00-1093	WK	4" Elbow	For HDPE Pipe, Quick Connect .....	31.00	
01 22 23 00-1094	MON	4" Elbow	For HDPE Pipe, Quick Connect .....	92.00	
01 22 23 00-1095	DAY	6" Elbow	For HDPE Pipe, Quick Connect .....	14.00	
01 22 23 00-1096	WK	6" Elbow	For HDPE Pipe, Quick Connect .....	36.00	
01 22 23 00-1097	MON	6" Elbow	For HDPE Pipe, Quick Connect .....	110.00	
01 22 23 00-1098	DAY	8" Elbow	For HDPE Pipe, Quick Connect .....	16.00	
01 22 23 00-1099	WK	8" Elbow	For HDPE Pipe, Quick Connect .....	41.00	
01 22 23 00-1100	MON	8" Elbow	For HDPE Pipe, Quick Connect .....	125.00	
01 22 23 00-1101	DAY	10" Elbow	For HDPE Pipe, Quick Connect .....	20.00	
01 22 23 00-1102	WK	10" Elbow	For HDPE Pipe, Quick Connect .....	51.00	
01 22 23 00-1103	MON	10" Elbow	For HDPE Pipe, Quick Connect .....	155.00	
01 22 23 00-1104	DAY	12" Elbow	For HDPE Pipe, Quick Connect .....	20.00	
01 22 23 00-1105	WK	12" Elbow	For HDPE Pipe, Quick Connect .....	51.00	
01 22 23 00-1106	MON	12" Elbow	For HDPE Pipe, Quick Connect .....	155.00	
01 22 23 00-1107	DAY	4" Tee	For HDPE Pipe, Quick Connect .....	12.00	
01 22 23 00-1108	WK	4" Tee	For HDPE Pipe, Quick Connect .....	31.00	
01 22 23 00-1109	MON	4" Tee	For HDPE Pipe, Quick Connect .....	92.00	

**01 General Requirements**  
**01 20 Price And Payment Procedures**  
**01 22 Unit Prices**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1110	DAY		6" Tee For HDPE Pipe, Quick Connect.....	16.00	
01 22 23 00-1111	WK		6" Tee For HDPE Pipe, Quick Connect.....	41.00	
01 22 23 00-1112	MON		6" Tee For HDPE Pipe, Quick Connect.....	125.00	
01 22 23 00-1113	DAY		8" Tee For HDPE Pipe, Quick Connect.....	20.00	
01 22 23 00-1114	WK		8" Tee For HDPE Pipe, Quick Connect.....	51.00	
01 22 23 00-1115	MON		8" Tee For HDPE Pipe, Quick Connect.....	155.00	
01 22 23 00-1116	DAY		10" Tee For HDPE Pipe, Quick Connect.....	24.00	
01 22 23 00-1117	WK		10" Tee For HDPE Pipe, Quick Connect.....	61.00	
01 22 23 00-1118	MON		10" Tee For HDPE Pipe, Quick Connect.....	185.00	
01 22 23 00-1119	DAY		12" Tee For HDPE Pipe, Quick Connect.....	24.00	
01 22 23 00-1120	WK		12" Tee For HDPE Pipe, Quick Connect.....	61.00	
01 22 23 00-1121	MON		12" Tee For HDPE Pipe, Quick Connect.....	185.00	
01 22 23 00-1122	DAY		4" Cap For HDPE Pipe, Quick Connect.....	2.00	
01 22 23 00-1123	WK		4" Cap For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1124	MON		4" Cap For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1125	DAY		6" Cap For HDPE Pipe, Quick Connect.....	2.00	
01 22 23 00-1126	WK		6" Cap For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1127	MON		6" Cap For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1128	DAY		8" Cap For HDPE Pipe, Quick Connect.....	2.00	
01 22 23 00-1129	WK		8" Cap For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1130	MON		8" Cap For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1131	DAY		10" Cap For HDPE Pipe, Quick Connect.....	2.00	
01 22 23 00-1132	WK		10" Cap For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1133	MON		10" Cap For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1134	DAY		12" Cap For HDPE Pipe, Quick Connect.....	2.00	
01 22 23 00-1135	WK		12" Cap For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1136	MON		12" Cap For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1137	DAY		4" Wye For HDPE Pipe, Quick Connect.....	6.00	
01 22 23 00-1138	WK		4" Wye For HDPE Pipe, Quick Connect.....	15.00	
01 22 23 00-1139	MON		4" Wye For HDPE Pipe, Quick Connect.....	46.00	
01 22 23 00-1140	DAY		6" Wye For HDPE Pipe, Quick Connect.....	7.00	
01 22 23 00-1141	WK		6" Wye For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1142	MON		6" Wye For HDPE Pipe, Quick Connect.....	55.00	
01 22 23 00-1143	DAY		8" Wye For HDPE Pipe, Quick Connect.....	12.00	
01 22 23 00-1144	WK		8" Wye For HDPE Pipe, Quick Connect.....	31.00	
01 22 23 00-1145	MON		8" Wye For HDPE Pipe, Quick Connect.....	92.00	
01 22 23 00-1146	DAY		10" Wye For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1147	WK		10" Wye For HDPE Pipe, Quick Connect.....	46.00	
01 22 23 00-1148	MON		10" Wye For HDPE Pipe, Quick Connect.....	140.00	
01 22 23 00-1149	DAY		12" Wye For HDPE Pipe, Quick Connect.....	18.00	
01 22 23 00-1150	WK		12" Wye For HDPE Pipe, Quick Connect.....	46.00	
01 22 23 00-1151	MON		12" Wye For HDPE Pipe, Quick Connect.....	140.00	

**01 22 23 00-1152 Truck And Trailer Equipment (01 22 23)**

**01 22 23 00-1153 Trucks (01 22 23 00-1152)**  
 Note: Includes driver, delivery, and removal.

**01 22 23 00-1154 Flat Bed Trucks (01 22 23 00-1153)**  
 Note: Includes hydraulic tilt bed.

01 22 23 00-1155	DAY		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	820.67	
			<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1156	WK		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	3,582.56	
			<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1157	MO		1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	14,417.56	
			<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-1158	DAY		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	915.37	
			<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1159	WK		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	3,825.22	
			<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1160	MO		3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	15,039.01	
			<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-1161	DAY		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	983.31	
			<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1162	WK		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,084.93	
			<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1163	MO		6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	16,027.42	
			<i>For Equipment Without Operator, Deduct</i>	-12,967.56	

**01 22 23 00-1164 Light Off-Road Utility Passenger Vehicles (01 22 23 00-1153)**

01 22 23 00-1165	DAY		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	172.82	
01 22 23 00-1166	WK		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	399.64	
01 22 23 00-1167	MO		4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	864.08	
01 22 23 00-1168	DAY		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	178.22	
01 22 23 00-1169	WK		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	415.84	
01 22 23 00-1170	MO		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	918.08	

**01 22 23 00-1171 Light Duty Trucks (01 22 23 00-1153)**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1172 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	803.29 -601.69	
01 22 23 00-1173 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	3,669.97 -3,008.47	
01 22 23 00-1174 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	14,353.53 -12,967.53	
01 22 23 00-1175 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	841.09 -601.69	
01 22 23 00-1176 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	3,783.37 -3,008.47	
01 22 23 00-1177 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	14,605.53 -12,967.53	
<b>01 22 23 00-1178 Boom Trucks (01 22 23 00-1153)</b>		
01 22 23 00-1179 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,009.47 -601.69	
01 22 23 00-1180 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,070.25 -3,008.47	
01 22 23 00-1181 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	15,660.45 -12,967.53	
<b>01 22 23 00-1182 Rear Dump Trucks (01 22 23 00-1153)</b>		
01 22 23 00-1183 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	942.63 -595.09	
01 22 23 00-1184 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	3,893.42 -2,975.46	
01 22 23 00-1185 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	15,635.77 -12,825.24	
01 22 23 00-1186 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,064.45 -601.69	
01 22 23 00-1187 WK 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,283.41 -3,008.47	
01 22 23 00-1188 MO 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	16,272.93 -12,967.53	
01 22 23 00-1189 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,130.55 -601.69	
01 22 23 00-1190 WK 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,425.07 -3,008.47	
01 22 23 00-1191 MO 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	16,367.37 -12,967.53	
01 22 23 00-1192 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,914.41 -601.69	
01 22 23 00-1193 WK 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	6,039.99 -3,008.47	
01 22 23 00-1194 MO 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	20,900.49 -12,967.53	
01 22 23 00-1195 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	2,045.68 -601.69	
01 22 23 00-1196 WK 18 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	6,343.15 -3,008.47	
01 22 23 00-1197 MO 18 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	21,693.79 -12,967.53	
<b>01 22 23 00-1198 Under-Bridge Inspection Trucks (01 22 23 00-1153)</b>		
01 22 23 00-1199 DAY 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	2,800.60 -601.69	
01 22 23 00-1200 WK 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	12,814.42 -3,008.47	
01 22 23 00-1201 MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	47,744.33 -12,967.53	
01 22 23 00-1202 DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	3,097.75 -601.69	
01 22 23 00-1203 WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	13,408.72 -3,008.47	
01 22 23 00-1204 MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	49,987.99 -12,967.53	
01 22 23 00-1205 DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	3,276.04 -601.69	
01 22 23 00-1206 WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	14,300.17 -3,008.47	
01 22 23 00-1207 MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	52,231.66 -12,967.53	
01 22 23 00-1208 DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,048.63 -601.69	
01 22 23 00-1209 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	17,865.97 -3,008.47	
01 22 23 00-1210 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	63,449.98 -12,967.53	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-1211 Vacuum Trucks</b> (01 22 23 00-1153)		
01 22 23 00-1212 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	880.46	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1213 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	3,839.30	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1214 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	15,421.76	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
01 22 23 00-1215 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	1,904.96	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1216 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	6,933.40	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1217 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	24,549.65	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<b>01 22 23 00-1218 Water Trucks</b> (01 22 23 00-1153)		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1042 for additional discharge hose, 01 22 23 00-1241 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1219 DAY 2,000 Gallon Water Truck With Full-Time Driver .....	1,093.63	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1220 WK 2,000 Gallon Water Truck With Full-Time Driver .....	4,303.91	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1221 MO 2,000 Gallon Water Truck With Full-Time Driver .....	16,028.49	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1222 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator .....	1,181.09	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1223 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator .....	4,910.64	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1224 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator .....	17,706.55	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1225 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	1,334.13	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1226 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	5,025.42	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
01 22 23 00-1227 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	17,886.93	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.32	
<b>01 22 23 00-1228 Asphalt Distribution Trucks</b> (01 22 23 00-1153)		
01 22 23 00-1229 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	1,616.12	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1230 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	6,038.74	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1231 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	21,925.77	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<b>01 22 23 00-1232 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board</b> (01 22 23 00-1153)		
01 22 23 00-1233 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	1,269.35	
<i>For Equipment Without Operator, Deduct</i>	-595.09	
01 22 23 00-1234 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	4,965.38	
<i>For Equipment Without Operator, Deduct</i>	-2,975.46	
01 22 23 00-1235 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	17,657.69	
<i>For Equipment Without Operator, Deduct</i>	-12,825.26	
<b>01 22 23 00-1236 Vacuum Sweeper Trucks For Bridge Decks</b> (01 22 23 00-1153)		
01 22 23 00-1237 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver .....	1,904.96	
<i>For Equipment Without Operator, Deduct</i>	-601.69	
01 22 23 00-1238 WK Vacuum Sweeper Truck, With Full-Time Truck Driver .....	6,933.40	
<i>For Equipment Without Operator, Deduct</i>	-3,008.47	
01 22 23 00-1239 MO Vacuum Sweeper Truck, With Full-Time Truck Driver .....	24,549.65	
<i>For Equipment Without Operator, Deduct</i>	-12,967.53	
<b>01 22 23 00-1240 Trailers</b> (01 22 23 00-1152)		
Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-1241 Water Trailers With Pump</b> (01 22 23 00-1240)		



		<b>General Requirements</b>	<b>01</b>
		<b>Price And Payment Procedures</b>	<b>01 20</b>
		Unit Prices	01 22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1242	DAY		500 To 600 Gallon Water Trailer With Pump .....	125.72	
01 22 23 00-1243	WK		500 To 600 Gallon Water Trailer With Pump .....	322.49	
01 22 23 00-1244	MO		500 To 600 Gallon Water Trailer With Pump .....	863.63	

**01 22 23 00-1245 CALTRANS Equipment Rental Rates (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®) (01 22 23)**

Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act.

01 22 23 00-1246	EA		CALTRANS Equipment Rental Rates, Reimbursable.....	1.00	
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Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per [https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book\\_2020.pdf](https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf)

**01 40 Quality Requirements (01)**

**01 45 Quality Control (01 40)**

**01 45 23 Testing And Inspecting Services (01 45)**

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

**01 45 23 00-0001 Soils/Aggregate Testing (01 45 23)**

**01 45 23 00-0002 Field Soils Tests (01 45 23 00-0001)**

01 45 23 00-0003	EA		Plasticity Index Soils Test, ASTM D-4318, Field Soils Test .....	196.97	
01 45 23 00-0004	EA		4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	279.58	
01 45 23 00-0005	EA		6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	317.70	
01 45 23 00-0006	EA		Resistance (R) Value Soils Test, CA 301, Field Soils Test .....	254.16	
01 45 23 00-0007	EA		Soils Classification Test, ASTM D-2487, Field Soils Test.....	381.24	
01 45 23 00-0008	SET		Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test .....	762.22	
01 45 23 00-0009	EA		Moisture Content, Field Soils Test .....	28.58	
01 45 23 00-0010	EA		UBC Or Swell Test, Field Soils Test .....	100.13	
01 45 23 00-0011	EA		Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	190.56	
01 45 23 00-0012	EA		Proctor Compaction 6" Standard Mold, Field Soils Test .....	238.19	
01 45 23 00-0013	EA		Density And Classification Test, Field Soils Test .....	76.22	
01 45 23 00-0014	EA		Percolation Test, Field Soils Test.....	190.56	
01 45 23 00-0015	EA		Infiltration Test, Field Soils Test.....	381.11	

**01 45 23 00-0016 Aggregate Testing (01 45 23 00-0001)**

01 45 23 00-0017	EA		Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	63.54	
01 45 23 00-0018	EA		Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	114.37	
01 45 23 00-0019	EA		Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	158.85	
01 45 23 00-0020	EA		Sieve Analysis, Pit Run, ASTM C136 .....	123.86	
			Note: Includes wash.		
01 45 23 00-0021	EA		Specific Special Gravity, Course, ASTM C127 .....	100.93	
			Note: Includes absorption test.		
01 45 23 00-0022	EA		Special Gravity, Fine, ASTM C127 .....	90.51	
			Note: Includes absorption test.		
01 45 23 00-0023	EA		Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128 .....	134.57	
01 45 23 00-0024	EA		Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128 .....	127.08	
01 45 23 00-0025	EA		Aggregate Cleanness Value, ASTM C-128, CA 227 .....	127.08	
01 45 23 00-0026	EA		Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217 .....	95.31	
01 45 23 00-0027	EA		Fine Aggregate Durability Index, CA 229 .....	101.66	
01 45 23 00-0028	EA		Sodium And Magnesium Soundness, ASTM C88 .....	266.78	
01 45 23 00-0029	EA		Los Angeles Rattler, ASTM C-131, CA 211 .....	203.33	
01 45 23 00-0030	EA		Los Angeles Rattler, ASTM C-535 .....	203.33	
01 45 23 00-0031	EA		Unit Weight Of Aggregates, ASTM C29 .....	57.19	
01 45 23 00-0032	EA		Organic Impurities In Sand, ASTM C40 .....	57.17	
01 45 23 00-0033	EA		Crushed Particle, ASTM California Test Method.....	57.17	
01 45 23 00-0034	EA		Clay Lump And Friable Particles, ASTM C142 .....	114.33	

**01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)**

**01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)**

01 45 23 00-0037	EA		Double Ring Infiltrometer Test, ASTM D3385 .....	1,009.28	
01 45 23 00-0038	EA		Unconfined Compressive Strength (Pocket Penetrometer) Test.....	47.64	

**01 45 23 00-0039 Lab Tests (01 45 23 00-0035)**

01 45 23 00-0040	EA		Falling Head Rigid Wall Consolidometer Technique CAE.....	471.00	
01 45 23 00-0041	EA		Falling Head Permeability Test EPA-9100 .....	471.00	
01 45 23 00-0042	EA		Constant Head Permeability Test For Granular Soils, ASTM D2432 .....	269.14	

**01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)**

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 40</b>	<b>Quality Requirements</b>
	<b>01 45</b>	<b>Quality Control</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 45 23 00-0044</b>	<b>Concrete Testing</b> <small>(01 45 23 00-0043)</small>	
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab .....	19.20	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633 .....	40.37	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42 .....	82.60	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78 .....	120.73	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567 .....	44.48	
01 45 23 00-0050 EA Concrete Mix Design Review .....	241.45	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory .....	571.86	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified .....	444.78	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496 .....	68.62	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143 .....	31.77	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231 .....	31.77	
<b>01 45 23 00-0056</b>	<b>Cement Testing</b> <small>(01 45 23 00-0043)</small>	
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24) .....	31.77	
	Note: Includes sealing and storing 1 year.	
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials .....	50.83	
<b>01 45 23 00-0059</b>	<b>Asphaltic Concrete Testing</b> <small>(01 45 23 00-0043)</small>	
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366 .....	63.54	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927 .....	165.20	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559 .....	63.54	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559 .....	165.20	
01 45 23 00-0064 EA Swell Test, CA 305 .....	76.25	
	Note: Includes compaction.	
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B .....	190.62	
01 45 23 00-0066 EA Gradation On Extracted Sample, ASTM D-5444 .....	127.08	
01 45 23 00-0067 EA Maximum Theoretical Unit Weight, ASTM C2041 .....	121.11	
01 45 23 00-0068 EA Unit Weight Sample Requiring Compaction, California Test Method 308 .....	25.42	
01 45 23 00-0069 EA Asphalt Unit Weight On Core Test, CA 308C .....	25.42	
01 45 23 00-0070 HR Nuclear Field Density Testing, 4 Hour Minimum .....	130.89	
01 45 23 00-0071 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664 .....	85.75	
01 45 23 00-0072 EA Penetration, ASTM D5 .....	91.79	
<b>01 45 23 00-0073</b>	<b>Masonry/Concrete Block/Tile Testing</b> <small>(01 45 23)</small>	
<b>01 45 23 00-0074</b>	<b>Masonry Testing</b> <small>(01 45 23 00-0073)</small>	
01 45 23 00-0075 EA 2" x 4" Cylinder Mortar Compression Test .....	41.94	
01 45 23 00-0076 EA 4" x 4" x 8" Grout Prisms Compression Test .....	41.94	
01 45 23 00-0077 EA Masonry Cores Compression Test .....	82.60	
01 45 23 00-0078 EA Composite Grouted Prism Compression Test .....	158.85	
<b>01 45 23 00-0079</b>	<b>Concrete Block Testing (ASTM C140 Or CMA Per Specimen)</b> <small>(01 45 23 00-0073)</small>	
01 45 23 00-0080 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140 .....	101.66	
01 45 23 00-0081 EA Absorption Test, Moisture Content And Unit Weight .....	69.89	
01 45 23 00-0082 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427 .....	266.78	
01 45 23 00-0083 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit .....	133.39	
<b>01 45 23 00-0084</b>	<b>Metals Testing</b> <small>(01 45 23)</small>	
<b>01 45 23 00-0085</b>	<b>Tank Tightness Testing</b> <small>(01 45 23 00-0084)</small>	
01 45 23 00-0086 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks .....	7.02	
01 45 23 00-0087 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks .....	6.01	
01 45 23 00-0088 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing .....	1,806.41	
01 45 23 00-0089 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing .....	2,207.13	
01 45 23 00-0090 EA >29,999 Gallons, Tank Volumetric Tightness Testing .....	2,810.87	
<b>01 45 23 00-0091</b>	<b>Tank Line Tightness Testing</b> <small>(01 45 23 00-0084)</small>	
01 45 23 00-0092 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing .....	381.16	
01 45 23 00-0093 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing .....	423.24	
01 45 23 00-0094 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing .....	465.17	
<b>01 45 23 00-0095</b>	<b>Other Testing</b> <small>(01 45 23)</small>	
<b>01 45 23 00-0096</b>	<b>Special Testing</b> <small>(01 45 23 00-0095)</small>	
01 45 23 00-0097 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight .....	98.50	
01 45 23 00-0098 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617 .....	591.02	
01 45 23 00-0099 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria) .....	29.72	
01 45 23 00-0100 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample .....	123.18	
01 45 23 00-0101 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample .....	123.18	
01 45 23 00-0102 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample .....	123.18	
01 45 23 00-0103 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample .....	677.49	
01 45 23 00-0104 EA Testing And Certification Of Backflow Valves .....	444.18	



<b>General Requirements</b>		<b>01</b>
Quality Requirements		01 40
Quality Control		01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 45 23 00-0105	<b>Nondestructive Field Testing Services</b> (01 45 23 00-0095)	
01 45 23 00-0106	<b>Infrared Thermography</b> (01 45 23 00-0105) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.	
01 45 23 00-0107	<b>Concrete Block Wall Investigation Using Infrared Thermography</b> (01 45 23 00-0106) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.	
01 45 23 00-0108	EA	Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge .....1,170.21
01 45 23 00-0109	CSF	Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....3.70 <i>For Digital Or Analog Recording Of All Items, Add</i> 0.56
01 45 23 00-0110	CSF	>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....2.46 <i>For Digital Or Analog Recording Of All Items, Add</i> 0.37
01 45 23 00-0111	<b>Other Nondestructive Field Testing Services</b> (01 45 23 00-0105)	
01 45 23 00-0112	HR	ASNT Certified Level I NDT Consultant .....84.68
01 45 23 00-0113	HR	ASNT Certified Level II NDT Consultant .....105.60
01 45 23 00-0114	HR	ASNT Certified Level III NDT Consultant .....121.22
01 45 23 00-0115	HR	Certified Industrial Radiography Radiation Safety Personnel.....75.02

### 01 45 29 Testing Laboratory Services (01 45)

01 45 29 00-0001	<b>Soil Borings Laboratory Tests</b> (01 45 29) See CSI section 02 32 13 00-0000 for soil borings.	
01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....87.47
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test .....27.91
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....67.28
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test .....471.00
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test .....93.04
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test .....20.19
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test .....12.54
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test.....161.90
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....56.46
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test .....11.17
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test .....558.29
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test .....112.92
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test.....139.57
01 45 29 00-0015	EA	Los Angeles Abrasion, Soil Borings Laboratory Test .....325.44
01 45 29 00-0016	EA	Soil Bearing Ratio, ASTM D1883 .....285.93
01 45 29 00-0017	EA	Compaction Test Subgrade, Soil Borings Laboratory Test .....83.74
01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test .....70.85
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test .....275.37
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....42.80

### 01 50 Temporary Facilities And Controls (01)

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

#### 01 51 Temporary Utilities (01 50)

##### 01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001	<b>Temporary Service Switch And/Or Building Feeder Switch</b> (01 51 13) Note: Includes all connections and removal after use.	
01 51 13 00-0002	EA	Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....774.21
01 51 13 00-0003	EA	Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....976.55
01 51 13 00-0004	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....1,320.20
01 51 13 00-0005	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....2,044.83
01 51 13 00-0006	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....3,762.84
01 51 13 00-0007	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....6,222.44
01 51 13 00-0008	EA	Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....8,582.71
01 51 13 00-0009	EA	Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....13,838.22
01 51 13 00-0010	EA	Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....19,250.25
01 51 13 00-0011	<b>Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses</b> (01 51 13) Note: Includes mounting on wall and removal after use.	
01 51 13 00-0012	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers .....1,383.71
01 51 13 00-0013	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers .....1,918.89
01 51 13 00-0014	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers .....3,005.91
01 51 13 00-0015	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers .....4,252.86



<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 51</b>	<b>Temporary Utilities</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 51 13 00-0016		<b>Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards</b> <small>(01 51 13)</small> Note: Includes all connections, fittings, supports and removal after use.	
01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	6.79
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards .....	7.44

**01 51 26 Temporary Lighting** (01 51)

01 51 26 00-0001		<b>Temporary Devices</b> <small>(01 51 26)</small> Note: Includes removal after use.	
01 51 26 00-0002	EA	Temporary Exit Light .....	291.20
01 51 26 00-0003	EA	Temporary 10 Light String With Cages .....	99.37
01 51 26 00-0004	EA	Temporary High Bay Light .....	364.56

**01 52 Construction Facilities** (01 50)

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

**01 52 13 Field Offices And Sheds** (01 52)

01 52 13 00-0001		<b>Field Offices</b> <small>(01 52 13)</small> Note: Excludes furniture, utility connections and service. Minimum 6 months rental.	
01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet .....	163.84
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	664.87
		<i>For Each Set-Up (Block And Level), Add</i>	382.03
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
		<i>For Office Trailer Without Toilet, Deduct</i>	-32.77
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet .....	185.67
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	664.87
		<i>For Each Set-Up (Block And Level), Add</i>	382.03
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
		<i>For Office Trailer Without Toilet, Deduct</i>	-37.13
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet .....	251.21
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
		<i>For Office Trailer Without Toilet, Deduct</i>	-50.24
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet .....	267.60
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
		<i>For Office Trailer Without Toilet, Deduct</i>	-53.52
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet .....	294.90
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
01 52 13 00-0007	MO	10' x 50' Mobile Office, With Toilet .....	311.29
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
01 52 13 00-0008	MO	12' x 32' Mobile Office, With Toilet .....	240.84
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
		<i>For Each Delivery And Set-Up (Block And Level), Add</i>	918.00
		<i>For Each Knock-Down And Pick-Up, Add</i>	723.00
01 52 13 00-0009	MO	12' x 44' Mobile Office, With Toilet .....	321.99
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
01 52 13 00-0010	MO	12' x 50' Mobile Office, With Toilet .....	365.89
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
01 52 13 00-0011	MO	12' x 60' Mobile Office, With Toilet .....	398.66
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	941.90
		<i>For Each Set-Up (Block And Level), Add</i>	623.32
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74
01 52 13 00-0012	MO	24' x 60' Modular Office, With Toilet .....	873.78
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	1,772.98
		<i>For Each Set-Up (Block And Level), Add</i>	1,005.35
		<i>For Each Anchoring Into Dirt, Add</i>	116.49
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	174.74





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,048.53	
For Each Delivery And Removal, Two Round Trips, Add	1,772.98	
For Each Set-Up (Block And Level), Add	1,005.35	
For Each Anchoring Into Dirt, Add	116.49	
For Each Anchoring Into Asphalt Or Concrete, Add	174.74	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	498.33	
For Each Delivery And Removal, Two Round Trips, Add	1,772.98	
For Each Set-Up (Block And Level), Add	1,005.35	
For Each Anchoring Into Dirt, Add	116.49	
For Each Anchoring Into Asphalt Or Concrete, Add	174.74	
<b>01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)</b>		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer .....	32.78	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer .....	20.49	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer .....	24.59	
01 52 13 00-0019 MO Table For Field Office Trailer .....	16.39	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer .....	7.76	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer .....	90.15	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer .....	57.37	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer .....	103.30	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer .....	13.98	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer .....	33.12	
01 52 13 00-0026 MO Steps For Field Office Trailer .....	40.78	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer .....	40.98	
01 52 13 00-0028 MO Copier For Field Office Trailer .....	65.57	
<b>01 52 13 00-0029 Storage Containers (01 52 13)</b>		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container .....	169.04	
For Each Delivery And Removal, Two Round Trips, Add	146.25	
For >12 Months, Deduct	-50.71	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container .....	176.72	
For Each Delivery And Removal, Two Round Trips, Add	160.88	
For >12 Months, Deduct	-53.02	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container .....	208.99	
For Each Delivery And Removal, Two Round Trips, Add	324.00	
For >12 Months, Deduct	-62.70	
<b>01 52 19 Sanitary Facilities (01 52)</b>		
<b>01 52 19 00-0001 Portable Toilets (01 52 19)</b>		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet .....	25.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	50.00	
01 52 19 00-0003 MO Portable Chemical Toilet .....	74.99	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	50.00	
01 52 19 00-0004 WK ADA Portable Chemical Toilet .....	29.82	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	50.00	
01 52 19 00-0005 MO ADA Portable Chemical Toilet .....	87.49	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	50.00	
01 52 19 00-0006 WK Two Station Portable Handwash .....	31.41	
For Each Delivery, Add	50.00	
01 52 19 00-0007 MO Two Station Portable Handwash .....	95.28	
For Each Delivery, Add	50.00	
01 52 19 00-0008 MO Portable Toilets, Multi Trailer, 16' .....	2,877.00	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service Trailer Restrooms, 3 Times Per Week .....	2,156.75	
<b>01 53 Temporary Construction (01 50)</b>		
<b>01 53 16 Temporary Decking (01 53)</b>		
<b>01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)</b>		
Note: Includes removal after use.		
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers .....	5.29	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail .....	28.30	
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam .....	9.26	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers .....	18.88	
<b>01 53 23 Temporary Ramps (01 53)</b>		
<b>01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)</b>		
Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access .....	1.34	0.43

<b>10</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 53</b>	<b>Temporary Construction</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 54 Construction Aids** (01 50)

**01 54 09 Personnel Protection Equipment** (01 54)

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

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

01 54 09 00-0002 NTE Personnel Protection Equipment.....0.00

**01 54 23 Temporary Scaffolding And Platforms** (01 54)

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

Note: Additional scaffolding rental for work above the normal working height of 14'.

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

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

01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month) .....22.07  
 For Up To 25, Add 8.83  
 For >25 To 50, Add 5.52  
 For >50 To 150, Add 2.21

01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month) .....24.82  
 For Up To 25, Add 9.93  
 For >25 To 50, Add 6.21  
 For >50 To 150, Add 2.48

01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month) .....33.11  
 For Up To 25, Add 13.24  
 For >25 To 50, Add 8.28  
 For >50 To 150, Add 3.31

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

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

01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....45.70  
 01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....57.13  
 01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....68.56  
 01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....75.41  
 01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....86.84  
 01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories.....54.85

**01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only** (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.

01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....39.20  
 01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....71.87  
 01 54 23 00-0016 LF Aluminum Joists (LF / Month).....6.37  
 01 54 23 00-0017 LF Aluminum Stringers (LF / Month) .....9.14  
 01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....11.52

**01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only** (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.

01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....73.13  
 01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories. ....91.41  
 01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....109.69  
 01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....118.83  
 01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....132.54

**01 54 23 00-0025 Scaffolding Accessories** (01 54 23 00-0001)

See CSI section 01 54 23 00-0019 for erection.

01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding.....28.18  
 Note: Includes removal after use.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 54 23 00-0027 Rolling Scaffolding (01 54 23)**  
 Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.

01 54 23 00-0028	DAY	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	8.38	
01 54 23 00-0029	WK	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	33.59	
01 54 23 00-0030	MO	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	134.36	
01 54 23 00-0031	DAY	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	14.03	
01 54 23 00-0032	WK	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	56.21	
01 54 23 00-0033	MO	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	224.86	
01 54 23 00-0034	EA	>14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold .....	92.02	
01 54 23 00-0035	EA	>20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold .....	115.02	

**01 54 23 00-0036 Shoring Posts (01 54 23)**  
 Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.

01 54 23 00-0037	DAY	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	4.60	
01 54 23 00-0038	WK	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	13.81	
01 54 23 00-0039	MO	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	23.02	

**01 54 23 00-0040 Temporary Lumber (01 54 23)**  
 Note: Includes removal after use.

01 54 23 00-0041	SF	5/16" CD Grade Plywood, Temporary Lumber.....	1.50	0.61
01 54 23 00-0042	SF	1/2" CD Grade Plywood, Temporary Lumber.....	1.80	0.61
01 54 23 00-0043	SF	5/8" CD Grade Plywood, Temporary Lumber.....	2.03	0.61
01 54 23 00-0044	SF	3/4" CD Grade Plywood, Temporary Lumber.....	2.29	0.61
01 54 23 00-0045	SF	1" CD Grade Plywood, Temporary Lumber.....	3.31	0.91
01 54 23 00-0046	LF	2" x 4" Temporary Lumber .....	1.10	1.27
01 54 23 00-0047	LF	2" x 6" Temporary Lumber .....	1.63	1.27
01 54 23 00-0048	LF	2" x 8" Temporary Lumber .....	2.17	1.27
01 54 23 00-0049	LF	2" x 10" Temporary Lumber .....	2.73	1.27
01 54 23 00-0050	LF	2" x 12" Temporary Lumber .....	3.27	1.27
01 54 23 00-0051	LF	3" x 8" Temporary Lumber .....	3.27	1.27
01 54 23 00-0052	LF	3" x 10" Temporary Lumber .....	4.08	1.27
01 54 23 00-0053	LF	3" x 12" Temporary Lumber .....	4.89	1.27
01 54 23 00-0054	LF	4" x 4" Temporary Lumber .....	2.32	0.63
01 54 23 00-0055	LF	4" x 6" Temporary Lumber .....	3.29	0.79
01 54 23 00-0056	LF	6" x 6" Temporary Lumber .....	4.26	0.94
01 54 23 00-0057	LF	6" x 8" Temporary Lumber .....	5.53	1.18
01 54 23 00-0058	LF	12" x 12" Temporary Lumber .....	13.28	1.89

**01 54 23 00-0059 Temporary Precast Concrete Blocks (01 54 23)**  
 Note: Includes removal after use.

01 54 23 00-0060	EA	2' x 2' x 2' Temporary Precast Concrete Block.....	87.32	
01 54 23 00-0061	EA	2' x 2' x 4' Temporary Precast Concrete Block.....	109.15	
01 54 23 00-0062	EA	2' x 2' x 8' Temporary Precast Concrete Block.....	130.99	

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

**01 54 26 00-0001 Swing Stage (01 54 26)**  
 Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.

01 54 26 00-0002	MO	7' Swing Stage, Electric Operated.....	1,723.16	
01 54 26 00-0003	MO	10' Swing Stage, Electric Operated.....	1,809.32	
01 54 26 00-0004	MO	14' Swing Stage, Electric Operated.....	1,895.48	
01 54 26 00-0005	MO	20' Swing Stage, Electric Operated.....	1,981.64	
01 54 26 00-0006	MO	24' Swing Stage, Electric Operated.....	2,067.79	
01 54 26 00-0007	MO	30' Swing Stage, Electric Operated.....	2,153.95	
01 54 26 00-0008	MO	42' Swing Stage, Electric Operated.....	2,240.11	
01 54 26 00-0009	MO	12' Swing Stage, Manually Operated.....	496.92	
01 54 26 00-0010	MO	24' Swing Stage, Manually Operated.....	621.14	
01 54 26 00-0011	EA	Swing Stage Platform From Hooks, Erection And Dismantling.....	3,923.74	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.				
01 54 26 00-0012	EA	Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling.....	5,452.70	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.				
01 54 26 00-0013	EA	Move Swing Stage Platform From Hooks To Different Location At Same Roof .....	2,063.19	
01 54 26 00-0014	EA	Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof .....	2,873.72	

**01 55 Vehicular Access And Parking (01 55)**

**01 55 23 Temporary Roads (01 55)**

**01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)**  
 Note: As per Caltrans detail.

**01 General Requirements**

**01 50 Temporary Facilities And Controls**

**01 55 Vehicular Access And Parking**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly.....	3.40	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly.....	4.28	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
<b>01 55 23 00-0004 Rumble Trench Plate (01 55 23)</b>		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	230.16	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate.....	78.39	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	19.60	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
<b>01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)</b>		
Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	2,924.31	174.72
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,994.63	262.08
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,512.75	349.46
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	11,284.98	436.82
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	16,497.46	524.18
<b>01 55 26 Traffic Control (01 55)</b>		
<b>01 55 26 00-0001 Removable Preformed Traffic Black Line Mask (01 55 26)</b>		
Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask.....	4.59	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask.....	5.62	
<b>01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)</b>		
Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	3.49	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	4.64	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	5.71	
<b>01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)</b>		
Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	1.84	
For Not Removed, Deduct	-2.58	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.42	
For Not Removed, Deduct	-3.51	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....	3.03	
For Not Removed, Deduct	-4.45	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.31	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.33	
<b>01 55 26 00-0014 Pedestrian Traffic Control (01 55 26)</b>		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	18.75	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	26.87	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	11.34	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	15.00	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	17.90	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	28.46	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape).....	25.11	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape).....	38.95	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape).....	53.43	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape).....	62.78	
<b>01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)</b>		
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	6.96	
01 55 26 00-0027 LF 6" Linear Delineation System.....	9.26	
<b>01 55 26 00-0028 Traffic Protection (01 55 26)</b>		
<b>01 55 26 00-0029 Portable Traffic Control Device Usage (01 55 26 00-0028)</b>		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.49	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	1.48	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	4.45	
01 55 26 00-0033 DAY Vertical Panel.....	1.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0034 WK Vertical Panel.....	4.48	
01 55 26 00-0035 MO Vertical Panel.....	13.43	
01 55 26 00-0036 DAY Channelizer Drum.....	1.62	
01 55 26 00-0037 WK Channelizer Drum.....	4.86	
01 55 26 00-0038 MO Channelizer Drum.....	14.58	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	0.77	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	2.30	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	6.90	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.06	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	3.18	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	9.55	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	2.35	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	7.06	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	21.17	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	2.68	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	8.04	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	24.12	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	4.90	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	14.71	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	44.13	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade.....	2.69	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade.....	8.07	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade.....	24.20	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.55	
01 55 26 00-0058 WK Type A Or C Flasher.....	1.64	
01 55 26 00-0059 MO Type A Or C Flasher.....	4.93	
01 55 26 00-0060 DAY Type B Flasher (High Intensity).....	2.97	
01 55 26 00-0061 WK Type B Flasher (High Intensity).....	8.92	
01 55 26 00-0062 MO Type B Flasher (High Intensity).....	26.76	

**01 55 26 00-0063**

**Traffic Barriers Usage** (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.

01 55 26 00-0064 DAY 6' Long Portable Parking Curbs.....	1.28	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs.....	3.84	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs.....	11.53	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps.....	3.79	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps.....	11.37	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps.....	34.11	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier.....	9.10	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier.....	27.31	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier.....	81.94	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier.....	18.21	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier.....	54.63	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier.....	163.88	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier.....	10.87	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier.....	32.62	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	97.85	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	15.52	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	46.57	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	139.72	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	6.08	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	18.23	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	54.69	
01 55 26 00-0085 MON 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	864.08	

Note: Consists of 8 bays with nose piece at the front of the system.

**01 55 26 00-0086**

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

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.

01 55 26 00-0087 DAY Mesh Or Vinyl Roll-up Sign With Stand.....	4.77	
01 55 26 00-0088 WK Mesh Or Vinyl Roll-up Sign With Stand.....	14.31	
01 55 26 00-0089 MO Mesh Or Vinyl Roll-up Sign With Stand.....	42.94	
01 55 26 00-0090 DAY Aluminum Sign And Post.....	2.52	
01 55 26 00-0091 WK Aluminum Sign And Post.....	7.57	
01 55 26 00-0092 MO Aluminum Sign And Post.....	22.72	
01 55 26 00-0093 DAY Aluminum Sign And A Frame Stand.....	3.61	
01 55 26 00-0094 WK Aluminum Sign And A Frame Stand.....	10.82	
01 55 26 00-0095 MO Aluminum Sign And A Frame Stand.....	32.47	
01 55 26 00-0096 DAY Trailer Mounted Flashing Arrow Board.....	87.00	
01 55 26 00-0097 WK Trailer Mounted Flashing Arrow Board.....	240.79	
01 55 26 00-0098 MO Trailer Mounted Flashing Arrow Board.....	410.00	
01 55 26 00-0099 DAY Trailer Mounted Portable Variable Message Sign (PVMS).....	300.00	
01 55 26 00-0100 WK Trailer Mounted Portable Variable Message Sign (PVMS).....	800.00	
01 55 26 00-0101 MO Trailer Mounted Portable Variable Message Sign (PVMS).....	1,600.00	
01 55 26 00-0102 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	812.35	

Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.



<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 55</b>	<b>Vehicular Access And Parking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0103 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	2,437.05	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	7,311.15	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
<b>01 55 26 00-0105 Place And Remove Traffic Protection Using Truck</b> (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0050 for delivery >15 miles.		
01 55 26 00-0106 EA Placement And Removal Of Up To 250 Cones Using Truck.....	3.87	
01 55 26 00-0107 EA Placement And Removal Of >250 Cones Using Truck.....	3.10	
01 55 26 00-0108 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck.....	5.17	
01 55 26 00-0109 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.13	
01 55 26 00-0110 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	7.75	
01 55 26 00-0111 EA Placement And Removal Of >250 Barricades Using Truck.....	6.20	
01 55 26 00-0112 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	7.75	
01 55 26 00-0113 EA Placement And Removal Of Portable Sign And Stand Using Truck.....	4.65	
01 55 26 00-0114 EA Placement And Removal Of Aluminum Sign And Post Using Truck.....	19.38	
01 55 26 00-0115 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck.....	58.13	
01 55 26 00-0116 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier.....	78.39	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	195.98	
For 2 Barriers, Add	70.55	
For 3 Barriers, Add	23.52	
01 55 26 00-0117 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	117.58	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	293.95	
For 2 Barriers, Add	105.82	
For 3 Barriers, Add	35.27	
01 55 26 00-0118 EA Placement And Removal Of Plastic Water Barrier.....	43.35	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	97.98	
For 2 Barriers, Add	35.27	
For 3 Barriers, Add	11.76	
01 55 26 00-0119 EA Placement And Removal Of Crash Attenuator Barrels.....	58.80	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	147.00	
For 2 Barriers, Add	52.92	
For 3 Barriers, Add	17.64	
01 55 26 00-0120 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	431.16	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
<b>01 55 26 00-0121 Place And Remove Traffic Protection From Roadside (Daily)</b> (01 55 26 00-0028)		
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	1.94	
01 55 26 00-0123 EA Placement And Removal Of >250 Cones By Hand From Roadside.....	1.55	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside.....	2.58	
01 55 26 00-0125 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.06	
01 55 26 00-0126 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	3.87	
01 55 26 00-0127 EA Placement And Removal Of >250 Barricades By Hand From Roadside.....	3.10	
01 55 26 00-0128 EA Placement And Removal Of Portable Sign And Stand From Roadside.....	2.33	
01 55 26 00-0129 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	29.07	
01 55 26 00-0130 EA Roadside Relocation Of Concrete Traffic Barrier.....	39.19	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
<b>01 55 26 00-0131 Temporary Rumble Strips</b> (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0132 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	8.23	
01 55 26 00-0133 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	6.04	
<b>01 56 Temporary Barriers And Enclosures</b> (01 50)		
Note: Includes removal after use.		
<b>01 56 16 Temporary Dust Barriers</b> (01 56)		
<b>01 56 16 00-0001 Temporary Sheeting For Protection</b> (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....	0.30	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.39	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.52	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.51	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.35	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings .....	.057	
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding .....	.054	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.065	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors .....	.036	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls .....	.045	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings .....	.058	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding .....	.055	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors .....	.036	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls .....	.045	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings .....	.058	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.055	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors .....	.040	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls .....	.049	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings .....	.062	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.059	
<b>01 56 16 00-0023 Temporary Canvas For Protection</b> <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0024 SF Heavy Duty Woven Water Repellant Canvas, Applied To Walls .....	.078	
<b>01 56 16 00-0025 Accessories For Temporary Sheeting</b> <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0026 EA 7' Zipper Door For Plastic Sheeting .....	18.80	
01 56 16 00-0027 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall) .....	6.42	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
<b>01 56 16 00-0028 Temporary Critical Barriers For Protection</b> <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0029 EA Up To 1 SF Individual Critical Barriers .....	10.14	
Note: For Outlets And Receptacles		
01 56 16 00-0030 EA >1 To 4 SF Individual Critical Barriers .....	15.34	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0031 EA >4 To 8 SF Individual Critical Barriers .....	20.57	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0032 EA >8 To 32 SF Individual Critical Barriers .....	31.79	
Note: For doors, windows, etc.		
<b>01 56 16 00-0033 Temporary Stud Wall</b> <small>(01 56 16)</small>		
Note: Includes removal after use.		
<b>01 56 16 00-0034 Temporary Stud Wall With Drywall</b> <small>(01 56 16 00-0033)</small>		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
<b>01 56 16 00-0035 Temporary Stud Wall With Drywall</b> <small>(01 56 16 00-0034)</small>		
01 56 16 00-0036 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.36	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0037 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.36	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0038 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.44	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0039 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.39	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
01 56 16 00-0040 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.39	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
01 56 16 00-0041 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.55	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
<b>01 56 16 00-0042 Temporary Stud Wall With Fire Rated Drywall</b> <small>(01 56 16 00-0034)</small>		
01 56 16 00-0043 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.45	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0044 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.47	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0045 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	5.43	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0046 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....	6.02	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.24
01 56 16 00-0047 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.57	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
01 56 16 00-0048 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.62	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
01 56 16 00-0049 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	7.53	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33
01 56 16 00-0050 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....	8.71	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		0.33

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>01 56 16 00-0051</b>	<b>Temporary Stud Wall With Oriented Strand Board (OSB)</b> <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.	
01 56 16 00-0052	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.30
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0053	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.34
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0054	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.45
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0055	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.51
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0056	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.28
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0057	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.35
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0058	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.57
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0059	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.69
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
<b>01 56 16 00-0060</b>	<b>Temporary Stud Wall With BC Plywood</b> <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.	
01 56 16 00-0061	SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.56
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0062	SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.70
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0063	SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.86
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0064	SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.98
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.24
01 56 16 00-0065	SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.80
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0066	SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.08
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0067	SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.39
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
01 56 16 00-0068	SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.64
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.33
<b>01 56 16 00-0069</b>	<b>Temporary Stud Wall With Plastic Sheeting</b> <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.	
01 56 16 00-0070	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.09
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.15
01 56 16 00-0071	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.13
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.15
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.15
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.15
01 56 16 00-0073	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.14
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.15
01 56 16 00-0074	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.19
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.15
<b>01 56 16 00-0075</b>	<b>Temporary Doors</b> <small>(01 56 16 00-0033)</small>	
	Note: For temporary stud walls. Includes removal after use.	
01 56 16 00-0076	EA Temporary Metal Door And Frame.....	529.03
	Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	
<b>01 56 16 00-0077</b>	<b>Temporary Floor Protection</b> <small>(01 56 16)</small>	
	Note: Includes removal after use.	
01 56 16 00-0078	SF Masonite For Temporary Floor Protection.....	1.58
01 56 16 00-0079	SF 1/2" Plywood For Temporary Floor Protection.....	1.62
01 56 16 00-0080	SF 3/4" Plywood For Temporary Floor Protection.....	1.98
01 56 16 00-0081	LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection.....	0.83
01 56 16 00-0082	LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection.....	0.27
01 56 16 00-0083	CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film.....	17.39
01 56 16 00-0084	SF Burlap For Temporary Floor Protection.....	0.60
<b>01 56 16 00-0085</b>	<b>Sticky Mats</b> <small>(01 56 16)</small>	
	Note: Includes removal after use.	
01 56 16 00-0086	EA 18" x 36", 30 Layer Sticky Mat.....	22.67
	<i>For 60 Layers Instead Of 30, Add</i>	14.24
01 56 16 00-0087	EA 18" x 46", 30 Layer Sticky Mat.....	25.83
	<i>For 60 Layers Instead Of 30, Add</i>	16.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0088 EA 24" x 36", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	25.83 16.61	
01 56 16 00-0089 EA 25" x 45", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	33.74 22.55	
01 56 16 00-0090 EA 36" x 36", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	36.91 24.92	
01 56 16 00-0091 EA 36" x 46", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	40.07 27.29	
01 56 16 00-0092 EA 36" x 60", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	79.63 56.96	
01 56 16 00-0093 EA 36" x 72", 30 Layer Sticky Mat .....	94.82	
 <b>01 56 26 Temporary Fencing (01 56)</b>		
01 56 26 00-0001 Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for auguring and backfill of posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	5.67 -0.14 -0.27 -0.41 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.31 -0.15 -0.31 -0.46 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	8.72 -0.26 -0.52 -0.78 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	19.31 -0.77 -1.54 -2.31 4.75	
 <b>01 56 26 00-0008 Temporary Chain Link Fence, &gt;6 To 12 Months (01 56 26 00-0002)</b>		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	5.95 -0.15 -0.30 -0.45 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.61 -0.17 -0.34 -0.51 2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.23 -0.28 -0.57 -0.85 3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	20.84 -0.85 -1.69 -2.54 4.75	
 <b>01 56 26 00-0013 Temporary Chain Link Fence, &gt;12 To 18 Months (01 56 26 00-0002)</b>		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.25 -0.17 -0.33 -0.50 1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.96 -0.19 -0.37 -0.56 2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.81 -0.31 -0.63 -0.94 3.60	

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	22.54	
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.86	
For >500, Deduct	-2.80	
For Each LF Shade Cloth, Add	4.75	
<b>01 56 26 00-0018 Temporary Chain Link Fence, &gt;18 Months (01 56 26 00-0002)</b>		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.58	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.54	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.31	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.61	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	10.43	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.03	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	24.40	
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-3.08	
For Each LF Shade Cloth, Add	4.75	
<b>01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)</b>		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
<b>01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)</b>		
<b>01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	228.48	
For Each LF Shade Cloth, Add	12.93	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	387.36	
For Each LF Shade Cloth, Add	32.33	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	433.95	
For Each LF Shade Cloth, Add	38.80	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	493.81	
For Each LF Shade Cloth, Add	48.50	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	591.79	
For Each LF Shade Cloth, Add	64.67	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	658.37	
For Each LF Shade Cloth, Add	77.60	
<b>01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	244.47	
For Each LF Shade Cloth, Add	20.61	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	418.01	
For Each LF Shade Cloth, Add	51.53	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	469.30	
For Each LF Shade Cloth, Add	61.84	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	543.47	
For Each LF Shade Cloth, Add	77.30	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	657.09	
For Each LF Shade Cloth, Add	103.07	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	744.93	
For Each LF Shade Cloth, Add	123.68	
<b>01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	272.89	
For Each LF Shade Cloth, Add	29.10	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	478.61	
For Shade Cloth, Add	72.75	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	535.56	
For Shade Cloth, Add	87.30	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	612.83	
For Shade Cloth, Add	109.13	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	748.96	
For Shade Cloth, Add	145.50	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	868.03	
For Shade Cloth, Add	174.61	
<b>01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	330.86	
For Each LF Shade Cloth, Add	38.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months ..... <i>For Each LF Shade Cloth, Add</i>	574.50 95.99	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months ..... <i>For Each LF Shade Cloth, Add</i>	644.13 115.19	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months ..... <i>For Each LF Shade Cloth, Add</i>	736.01 143.99	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months ..... <i>For Each LF Shade Cloth, Add</i>	899.74 191.99	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months ..... <i>For Each LF Shade Cloth, Add</i>	1,038.04 230.38	
<b>01 56 26 00-0053 Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0023)</small>		
<b>01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	237.14 12.93	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	400.83 32.33	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	449.34 38.80	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	511.13 48.50	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	612.96 64.67	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	681.47 77.60	
<b>01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	253.52 20.61	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	432.09 51.53	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	485.40 61.84	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	561.58 77.30	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	679.23 103.07	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	769.08 123.68	
<b>01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	282.85 29.10	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Shade Cloth, Add</i>	494.10 72.75	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Shade Cloth, Add</i>	553.27 87.30	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Shade Cloth, Add</i>	632.75 109.13	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Shade Cloth, Add</i>	773.31 145.50	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Shade Cloth, Add</i>	894.59 174.61	
<b>01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	343.31 38.40	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	593.87 95.99	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	666.27 115.19	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	760.91 143.99	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	930.17 191.99	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months ..... <i>For Each LF Shade Cloth, Add</i>	1,071.24 230.38	
<b>01 56 26 00-0082 Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0023)</small>		
<b>01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months ..... <i>For Each LF Shade Cloth, Add</i>	246.23 12.93	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months ..... <i>For Each LF Shade Cloth, Add</i>	414.97 32.33	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months ..... <i>For Each LF Shade Cloth, Add</i>	465.51 38.80	

**01 General Requirements**  
**01 50 Temporary Facilities And Controls**  
**01 56 Temporary Barriers And Enclosures**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0087	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	529.32	
			<i>For Each LF Shade Cloth, Add</i>	48.50	
01 56 26 00-0088	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	635.19	
			<i>For Each LF Shade Cloth, Add</i>	64.67	
01 56 26 00-0089	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	705.72	
			<i>For Each LF Shade Cloth, Add</i>	77.60	
<b>01 56 26 00-0090</b>			<b>6' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months (01 56 26 00-0082)</b>		
01 56 26 00-0091	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	263.03	
			<i>For Each LF Shade Cloth, Add</i>	20.61	
01 56 26 00-0092	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	446.88	
			<i>For Each LF Shade Cloth, Add</i>	51.53	
01 56 26 00-0093	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	502.30	
			<i>For Each LF Shade Cloth, Add</i>	61.84	
01 56 26 00-0094	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	580.59	
			<i>For Each LF Shade Cloth, Add</i>	77.30	
01 56 26 00-0095	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	702.47	
			<i>For Each LF Shade Cloth, Add</i>	103.07	
01 56 26 00-0096	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	794.43	
			<i>For Each LF Shade Cloth, Add</i>	123.68	
<b>01 56 26 00-0097</b>			<b>8' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months (01 56 26 00-0082)</b>		
01 56 26 00-0098	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	293.31	
			<i>For Each LF Shade Cloth, Add</i>	29.10	
01 56 26 00-0099	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	510.37	
			<i>For Shade Cloth, Add</i>	72.75	
01 56 26 00-0100	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	571.86	
			<i>For Shade Cloth, Add</i>	87.30	
01 56 26 00-0101	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	653.66	
			<i>For Shade Cloth, Add</i>	109.13	
01 56 26 00-0102	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	798.87	
			<i>For Shade Cloth, Add</i>	145.50	
01 56 26 00-0103	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	922.48	
			<i>For Shade Cloth, Add</i>	174.61	
<b>01 56 26 00-0104</b>			<b>10' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months (01 56 26 00-0082)</b>		
01 56 26 00-0105	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	356.39	
			<i>For Each LF Shade Cloth, Add</i>	38.40	
01 56 26 00-0106	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	614.20	
			<i>For Each LF Shade Cloth, Add</i>	95.99	
01 56 26 00-0107	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	689.51	
			<i>For Each LF Shade Cloth, Add</i>	115.19	
01 56 26 00-0108	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	787.05	
			<i>For Each LF Shade Cloth, Add</i>	143.99	
01 56 26 00-0109	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	962.13	
			<i>For Each LF Shade Cloth, Add</i>	191.99	
01 56 26 00-0110	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	1,106.10	
			<i>For Each LF Shade Cloth, Add</i>	230.38	
<b>01 56 26 00-0111</b>			<b>Temporary Chain Link Fence Gates, &gt;18 Months (01 56 26 00-0023)</b>		
<b>01 56 26 00-0112</b>			<b>4' High, Temporary Chain Link Fence Gates, &gt;18 Months (01 56 26 00-0111)</b>		
01 56 26 00-0113	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	255.33	
			<i>For Each LF Shade Cloth, Add</i>	12.93	
01 56 26 00-0114	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	429.12	
			<i>For Each LF Shade Cloth, Add</i>	32.33	
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	481.68	
			<i>For Each LF Shade Cloth, Add</i>	38.80	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	547.50	
			<i>For Each LF Shade Cloth, Add</i>	48.50	
01 56 26 00-0117	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	657.42	
			<i>For Each LF Shade Cloth, Add</i>	64.67	
01 56 26 00-0118	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	729.97	
			<i>For Each LF Shade Cloth, Add</i>	77.60	
<b>01 56 26 00-0119</b>			<b>6' High, Temporary Chain Link Fence Gates, &gt;18 Months (01 56 26 00-0111)</b>		
01 56 26 00-0120	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	272.54	
			<i>For Each LF Shade Cloth, Add</i>	20.61	
01 56 26 00-0121	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	461.67	
			<i>For Each LF Shade Cloth, Add</i>	51.53	
01 56 26 00-0122	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	519.20	
			<i>For Each LF Shade Cloth, Add</i>	61.84	
01 56 26 00-0123	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	599.61	
			<i>For Each LF Shade Cloth, Add</i>	77.30	
01 56 26 00-0124	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	725.71	
			<i>For Each LF Shade Cloth, Add</i>	103.07	
01 56 26 00-0125	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	819.78	
			<i>For Each LF Shade Cloth, Add</i>	123.68	



<b>General Requirements</b>			<b>01</b>
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 56 26 00-0126</b> <b>8' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127      EA    4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	303.77	
<i>For Each LF Shade Cloth, Add</i>	29.10	
01 56 26 00-0128      EA    10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	526.64	
<i>For Shade Cloth, Add</i>	72.75	
01 56 26 00-0129      EA    12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	590.45	
<i>For Shade Cloth, Add</i>	87.30	
01 56 26 00-0130      EA    15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	674.58	
<i>For Shade Cloth, Add</i>	109.13	
01 56 26 00-0131      EA    20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	824.44	
<i>For Shade Cloth, Add</i>	145.50	
01 56 26 00-0132      EA    24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	950.37	
<i>For Shade Cloth, Add</i>	174.61	
<b>01 56 26 00-0133</b> <b>10' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		
01 56 26 00-0134      EA    4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	369.46	
<i>For Each LF Shade Cloth, Add</i>	38.40	
01 56 26 00-0135      EA    10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	634.54	
<i>For Each LF Shade Cloth, Add</i>	95.99	
01 56 26 00-0136      EA    12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	712.75	
<i>For Each LF Shade Cloth, Add</i>	115.19	
01 56 26 00-0137      EA    15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	813.20	
<i>For Each LF Shade Cloth, Add</i>	143.99	
01 56 26 00-0138      EA    20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	994.08	
<i>For Each LF Shade Cloth, Add</i>	191.99	
01 56 26 00-0139      EA    24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	1,140.96	
<i>For Each LF Shade Cloth, Add</i>	230.38	
<b>01 56 26 00-0140</b> <b>Temporary Chain Link Fence Panels (Portable)</b> <small>(01 56 26 00-0001)</small>		
<i>Note: Includes delivery, set-up and removal. Excludes sandbags.</i>		
<b>01 56 26 00-0141</b> <b>Temporary Chain Link Fence Panels (Portable), Up To 6 Months</b> <small>(01 56 26 00-0140)</small>		
01 56 26 00-0142      LF    Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.20	
<i>For &gt;100 To 250, Deduct</i>	-0.16	
<i>For &gt;250 To 500, Deduct</i>	-0.33	
<i>For &gt;500, Deduct</i>	-0.49	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0143      LF    Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.89	
<i>For &gt;100 To 250, Deduct</i>	-0.18	
<i>For &gt;250 To 500, Deduct</i>	-0.37	
<i>For &gt;500, Deduct</i>	-0.55	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0144      LF    Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	9.42	
<i>For &gt;100 To 250, Deduct</i>	-0.29	
<i>For &gt;250 To 500, Deduct</i>	-0.59	
<i>For &gt;500, Deduct</i>	-0.88	
<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0145</b> <b>Temporary Chain Link Fence Panels (Portable), &gt;6 To 12 Months</b> <small>(01 56 26 00-0140)</small>		
01 56 26 00-0146      LF    Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	6.48	
<i>For &gt;100 To 250, Deduct</i>	-0.18	
<i>For &gt;250 To 500, Deduct</i>	-0.35	
<i>For &gt;500, Deduct</i>	-0.53	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0147      LF    Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	7.19	
<i>For &gt;100 To 250, Deduct</i>	-0.20	
<i>For &gt;250 To 500, Deduct</i>	-0.40	
<i>For &gt;500, Deduct</i>	-0.59	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0148      LF    Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	9.93	
<i>For &gt;100 To 250, Deduct</i>	-0.32	
<i>For &gt;250 To 500, Deduct</i>	-0.64	
<i>For &gt;500, Deduct</i>	-0.96	
<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0149</b> <b>Temporary Chain Link Fence Panels (Portable), &gt;12 To 18 Months</b> <small>(01 56 26 00-0140)</small>		
01 56 26 00-0150      LF    Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	6.76	
<i>For &gt;100 To 250, Deduct</i>	-0.19	
<i>For &gt;250 To 500, Deduct</i>	-0.38	
<i>For &gt;500, Deduct</i>	-0.57	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0151      LF    Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.54	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500, Deduct</i>	-0.65	
<i>For Each LF Shade Cloth, Add</i>	2.55	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0152	LF		Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months .....	10.51	
			<i>For &gt;100 To 250, Deduct</i>	-0.35	
			<i>For &gt;250 To 500, Deduct</i>	-0.70	
			<i>For &gt;500, Deduct</i>	-1.05	
			<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0153</b>			<b>Temporary Chain Link Fence Panels (Portable), &gt;18 Months</b> (01 56 26 00-0140)		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....	7.11	
			<i>For &gt;100 To 250, Deduct</i>	-0.21	
			<i>For &gt;250 To 500, Deduct</i>	-0.42	
			<i>For &gt;500, Deduct</i>	-0.62	
			<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....	7.89	
			<i>For &gt;100 To 250, Deduct</i>	-0.23	
			<i>For &gt;250 To 500, Deduct</i>	-0.47	
			<i>For &gt;500, Deduct</i>	-0.70	
			<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0156	LF		Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....	11.12	
			<i>For &gt;100 To 250, Deduct</i>	-0.38	
			<i>For &gt;250 To 500, Deduct</i>	-0.76	
			<i>For &gt;500, Deduct</i>	-1.14	
			<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0157</b>			<b>Temporary Chain Link Fence Panels (Portable) Sandbags</b> (01 56 26 00-0140)		
01 56 26 00-0158	BAG		Temporary Chain Link Fence Panels (Portable) Sandbag .....	5.64	
			Note: Includes placement and removal.		
<b>01 56 26 00-0159</b>			<b>Relocate Chain Link Fence, Gates And Panels</b> (01 56 26 00-0001)		
			Note: Excludes auguring/drilling for posts.		
<b>01 56 26 00-0160</b>			<b>Relocate Temporary Chain Link Fence On Site</b> (01 56 26 00-0159)		
01 56 26 00-0161	LF		Relocate Temporary 4' High Chain Link Fence And Posts.....	2.95	
01 56 26 00-0162	LF		Relocate Temporary 6' High Chain Link Fence And Posts.....	4.42	
01 56 26 00-0163	LF		Relocate Temporary 8' High Chain Link Fence And Posts.....	6.38	
01 56 26 00-0164	LF		Relocate Temporary 10' High Chain Link Fence And Posts.....	7.86	
<b>01 56 26 00-0165</b>			<b>Relocate Temporary Chain Link Fence Panels On Site</b> (01 56 26 00-0159)		
01 56 26 00-0166	LF		Relocate Temporary 4' High Chain Link Fence Panel, Self Standing .....	0.73	
01 56 26 00-0167	LF		Relocate Temporary 6' High Chain Link Fence Panel, Self Standing .....	0.88	
01 56 26 00-0168	LF		Relocate Temporary 8' High Chain Link Fence Panel, Self Standing .....	0.99	
<b>01 56 26 00-0169</b>			<b>Relocate Temporary Chain Link Gates On Site</b> (01 56 26 00-0159)		
01 56 26 00-0170	EA		Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	95.78	
01 56 26 00-0171	EA		Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	110.51	
01 56 26 00-0172	EA		Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	136.30	
01 56 26 00-0173	EA		Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	147.35	
<b>01 56 26 00-0174</b>			<b>Temporary Safety Fence</b> (01 56 26)		
			Note: Includes removal after use.		
01 56 26 00-0175	LF		48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence .....	2.63	
<b>01 56 29</b>			<b>Temporary Protective Walkways</b> (01 56)		
<b>01 56 29 00-0001</b>			<b>Temporary Sidewalk Bridge Protection</b> (01 56 29)		
			Note: Includes removal after use.		
<b>01 56 29 00-0002</b>			<b>Installation of Sidewalk Bridge</b> (01 56 29 00-0001)		
01 56 29 00-0003	LF		Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	146.26	
			Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
			<i>For 3 Post System, Add</i>	6.00	
			<i>For Each Additional Foot Over 8' Wide, Add</i>	3.00	
			<i>For Each Additional Foot Over 8' High, Add</i>	2.00	
01 56 29 00-0004	LF		Installation of Netting for Sidewalk Bridge.....	3.73	
<b>01 56 29 00-0005</b>			<b>Monthly Rental of Sidewalk Bridge</b> (01 56 29 00-0001)		
01 56 29 00-0006	LF		Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	8.64	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			<i>For 3 Post System, Add</i>	1.30	
01 56 29 00-0007	LF		Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	9.73	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			<i>For 3 Post System, Add</i>	1.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....10.81 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	1.62	
01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....10.81 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	1.62	
01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....11.88 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	1.78	
01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....14.06 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	2.11	
01 56 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....12.98 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	1.95	
01 56 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....15.14 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	2.27	
01 56 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....16.20 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	2.43	
01 56 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge .....1.62		
<b>01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)</b>		
01 56 29 00-0017 LF Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....30.44 Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system. For 3 Post System, Add	2.50	
For Each Additional Foot Over 8' Wide, Add	1.25	
For Each Additional Foot Over 8' High, Add	0.75	
01 56 29 00-0018 LF Removal Of Netting For Sidewalk Bridge .....1.87		
<b>01 56 29 00-0019 Safety Nets (01 56 29)</b>		
Note: Includes removal after use.		
01 56 29 00-0020 SF Small Mesh Debris Netting .....1.50 Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
<b>01 56 33 Temporary Security Barriers (01 56)</b>		
<b>01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)</b>		
Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002 OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day .....11.05		
01 56 33 00-0003 SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....6.67		
01 56 33 00-0004 SF 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....7.74		
<b>01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)</b>		
Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....8.06		
01 56 33 00-0007 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....19.56		
01 56 33 00-0008 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....58.69		
<b>01 56 39 Temporary Tree And Plant Protection (01 56)</b>		
<b>01 56 39 00-0001 Temporary Tree Guards (01 56 39)</b>		
Note: Includes digging holes and removal after use.		
01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....146.76		
01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....170.40		
01 56 39 00-0004 EA 6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....184.40		
<b>01 57 Temporary Controls (01 50)</b>		
<b>01 57 13 Temporary Erosion And Sediment Control (01 57)</b>		
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
<b>01 57 23 Temporary Storm Water Pollution Control (01 57)</b>		
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
<b>01 57 23 00-0001 Temporary Drain Guard (01 57 23)</b>		
Note: Includes removal after use.		



**01 General Requirements**

**01 50 Temporary Facilities And Controls**

**01 57 Temporary Controls**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227) .....	71.37	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217) .....	70.19	
			Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219) .....	86.86	
			Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356) .....	85.66	
			Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358) .....	103.54	
			Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

**01 58 Project Identification (01 50)**

Note: Includes removal after use.

**01 58 13 Temporary Project Signage (01 58)**

**01 58 13 00-0001 Project Sign (01 58 13)**

**01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001)**

Note: Excludes posts.

**01 58 13 00-0003 Reflectorized, MDO Plywood Signs (01 58 13 00-0002)**

**01 58 13 00-0004 Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)**

01 58 13 00-0005	EA		Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign .....	111.84	20.26
			For High-Intensity Grade, Add	24.96	
			For Diamond Grade, Add	48.13	
01 58 13 00-0006	EA		>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign .....	184.99	21.18
			For High-Intensity Grade, Add	49.92	
			For Diamond Grade, Add	96.27	
01 58 13 00-0007	EA		>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign .....	258.14	22.11
			For High-Intensity Grade, Add	74.88	
			For Diamond Grade, Add	144.40	
01 58 13 00-0008	EA		>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign .....	331.31	23.03
			For High-Intensity Grade, Add	99.84	
			For Diamond Grade, Add	192.54	
01 58 13 00-0009	SF		>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign .....	10.38	0.73
			For High-Intensity Grade, Add	3.12	
			For Diamond Grade, Add	6.01	

**01 58 13 00-0010 Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)**

**01 58 13 00-0011 One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)**

01 58 13 00-0012	EA		Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign .....	137.28	20.26
01 58 13 00-0013	EA		>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign .....	162.21	21.18
01 58 13 00-0014	EA		>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign .....	200.88	22.11
01 58 13 00-0015	EA		>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign .....	237.43	23.03
01 58 13 00-0016	SF		>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign .....	7.45	0.73

**01 58 13 00-0017 Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)**

01 58 13 00-0018	EA		Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign .....	140.00	20.26
01 58 13 00-0019	EA		>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign .....	176.90	21.18
01 58 13 00-0020	EA		>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign .....	215.80	22.11
01 58 13 00-0021	EA		>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign .....	250.22	23.03
01 58 13 00-0022	SF		>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign .....	7.85	0.73

**01 58 13 00-0023 Fabricate And Install New Posts (01 58 13 00-0001)**

Note: Includes excavation, backfill and compaction. Excludes core drilling.

01 58 13 00-0024	LF		Galvanized Metal Channel Sign Posts .....	11.46	
01 58 13 00-0025	LF		4" x 4" Pressure Treated Wood Sign Posts .....	10.49	
01 58 13 00-0026	LF		4" x 6" Pressure Treated Wood Sign Posts .....	12.16	

**01 58 13 00-0027 Owner Supplied Signs (01 58 13 00-0001)**

01 58 13 00-0028	EA		Installation And Removal Of Owner Supplied Project Sign .....	73.69	
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**01 60 Product Requirements (01)**

**01 66 Product Storage And Handling Requirements (01 60)**

**01 66 19 Product Handling Requirements (01 66)**

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

**01 66 19 00-0001 Transfer Delivered Materials Between Floors (01 66 19)**

Note: For moving delivered, owner supplied or existing materials in a building.

01 66 19 00-0002	CY		Transfer Delivered Material Between Floors Via Stairs, Per Floor .....	14.17	
			Note: Quantity equals volume of materials multiplied by number of floors traveled.		



<b>General Requirements</b>	<b>01</b>	<b>10</b>
Product Requirements	01 60	
Product Storage And Handling Requirements	01 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....9.21 Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
<b>01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125'</b> (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125' .....5.76		
<b>01 66 19 00-0006 Transfer Demolition Debris Between Floors</b> (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor.....14.17 Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip.....9.21 Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
<b>01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125'</b> (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125' .....5.76		
<b>01 66 19 00-0011 Moving Furniture And Furnishings</b> (01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings .....0.92 Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

**01 70 Execution And Closeout Requirements** (01)

**01 71 Examination And Preparation** (01 70)

**01 71 13 Mobilization** (01 71)

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

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck.....238.03 Note: Excludes flagman for traffic control where necessary. See CSI section 01 22 23 00-0843 for cranes. Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....726.12 Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		

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

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane .....380.84 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	95.21	
<i>For &gt;60 To 100 Miles Radius, Add</i>	152.34	
01 71 13 00-0006 EA 20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane.....618.86 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	154.72	
<i>For &gt;60 To 100 Miles Radius, Add</i>	247.54	
01 71 13 00-0007 EA 40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane.....856.88 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	214.22	
<i>For &gt;60 To 100 Miles Radius, Add</i>	342.75	
01 71 13 00-0008 EA 70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane.....1,380.53 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	345.13	
<i>For &gt;60 To 100 Miles Radius, Add</i>	552.21	
01 71 13 00-0009 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,094.90 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	273.73	
<i>For &gt;60 To 100 Miles Radius, Add</i>	437.96	
01 71 13 00-0010 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,761.37 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	440.34	
<i>For &gt;60 To 100 Miles Radius, Add</i>	704.55	
01 71 13 00-0011 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....2,218.37 Note: Includes delivery and pickup.		
<i>For &gt;30 To 60 Miles Radius, Add</i>	554.59	
<i>For &gt;60 To 100 Miles Radius, Add</i>	887.35	

<b>01</b>	<b>General Requirements</b>
<b>01 70</b>	<b>Execution And Closeout Requirements</b>
<b>01 71</b>	<b>Examination And Preparation</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0012 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....2,751.55 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 687.89 For >60 To 100 Miles Radius, Add 1,100.62		
01 71 13 00-0013 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....3,998.78 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 999.70 For >60 To 100 Miles Radius, Add 1,599.51		
01 71 13 00-0014 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....5,712.54 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 1,428.14 For >60 To 100 Miles Radius, Add 2,285.02		
01 71 13 00-0015 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....7,854.75 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 1,963.69 For >60 To 100 Miles Radius, Add 3,141.90		
<b>01 71 23 Field Engineering (01 71)</b>		
<b>01 71 23 16 Construction Surveying (01 71 23)</b>		
<b>01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16)</b> Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....933.65		
01 71 23 16-0003 ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings) .....2,705.79		
01 71 23 16-0004 ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings) .....3,878.11		
01 71 23 16-0005 ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings) .....5,891.16		
01 71 23 16-0006 ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....7,398.03		
<b>01 71 23 16-0007 Property Lines Survey (01 71 23 16)</b> Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008 LF Survey Property Lines On Cleared Land.....2.25		
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land .....2.60		
01 71 23 16-0010 LF Survey Property Lines On Wooded Land.....3.05		
<b>01 71 23 16-0011 Survey Monument (01 71 23 16)</b>		
01 71 23 16-0012 EA 3' Precast Survey Monument .....133.42 For Owner Furnished Monument, Deduct -63.54		
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover .....196.37		
01 71 23 16-0014 EA Riser Ring For Survey Monument .....98.34		
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade .....190.62		
<b>01 71 23 16-0016 Facade Surveying (01 71 23 16)</b>		
01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors).....6.21		
<b>01 71 23 16-0018 Utility Survey (01 71 23 16)</b> Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities .....5,124.99		
<b>01 71 36 Non-Destructive Concrete Examination (01 71)</b>		
<b>01 71 36 00-0001 Electromagnetic Survey (01 71 36)</b> Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
<b>01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)</b>		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt .....648.06		
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt .....972.09		
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt .....1,944.18		
<b>01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)</b>		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt .....216.02 Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.		
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....432.04 Note: Includes GPS coordinates of located items and reference items.		
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....972.09 Note: Includes additions to the owner provided CAD drawing.		



<b>General Requirements</b>	<b>01</b>	<b>5</b>
<b>Execution And Closeout Requirements</b>	<b>01 70</b>	
<b>Cleaning And Waste Management</b>	<b>01 74</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 74 Cleaning And Waste Management (01 70)**

**01 74 13 Progress Cleaning (01 74)**

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

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

01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent .....	18.44
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster.....	21.57

Note: Per CY of debris removed.

**01 74 16 Site Maintenance (01 74)**

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

Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Do not use these tasks in conjunction with related installation/demolition tasks in the Construction Task Catalog®.

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

01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper .....	17.68
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads .....	21.22

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

01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep .....	26.52
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**01 74 19 Construction Waste Management And Disposal (01 74)**

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

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

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

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

01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute .....	29.11
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute .....	43.33

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

01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute .....	11.50
		<i>For Steel Liner, Add</i>	2.17
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute.....	13.17
		<i>For Steel Liner, Add</i>	2.49
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute.....	14.84
		<i>For Steel Liner, Add</i>	2.81

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

01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute .....	21.67
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Note: Includes fabrication and installation.

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

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

01 74 19 00-0012	EA	10 CY Dumpster (1 Ton) "Construction Debris" .....	494.99
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	85.00
01 74 19 00-0013	EA	15 CY Dumpster (1.5 Ton) "Construction Debris" .....	537.49
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	85.00
01 74 19 00-0014	EA	20 CY Dumpster (2 Ton) "Construction Debris" .....	555.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	85.00
01 74 19 00-0015	EA	30 CY Dumpster (3 Ton) "Construction Debris" .....	600.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	85.00
01 74 19 00-0016	EA	40 CY Dumpster (4 Ton) "Construction Debris" .....	714.98
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	85.00
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only" .....	714.98
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable .....	684.34
		Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable .....	735.41
		Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	

<b>01</b>	<b>General Requirements</b>
<b>01 70</b>	<b>Execution And Closeout Requirements</b>
<b>01 74</b>	<b>Cleaning And Waste Management</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>01 74 19 00-020</b>	<b>Concrete Washout Service</b> <small>(01 74 19)</small>	
01 74 19 00-0021	MO Rampless Concrete Washout Bin ..... Note: Includes delivery.	477.62
01 74 19 00-0022	MO Ramped Concrete Washout Bin ..... Note: Includes delivery.	573.15
01 74 19 00-0023	EA Interim Vacuum Service, Concrete Washout Bin ..... Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	356.58
01 74 19 00-0024	EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin ..... Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	772.59
<b>01 74 19 00-025</b>	<b>Debris Processing Fee</b> <small>(01 74 19)</small>	
<b>01 74 19 00-0026</b>	<b>Material Recycling Fees</b> <small>(01 74 19 00-0025)</small>	
	Note: Does not apply with use of dumpsters. Excludes hauling.	
01 74 19 00-0027	CY Drop-Off Asphalt At Recycling Center.....	15.44
01 74 19 00-0028	CY Drop-Off Non Reinforced Concrete At Recycling Center .....	20.69
01 74 19 00-0029	CY Drop-Off Reinforced Concrete At Recycling Center .....	31.03
01 74 19 00-0030	CY Drop-Off Brick Or Block At Recycling Center .....	26.90
01 74 19 00-0031	CY Drop-Off Dirt At Recycling Center .....	30.00
01 74 19 00-0032	CY Drop-Off Dimensional Lumber At Recycling Center .....	28.97
<b>01 74 19 00-0033</b>	<b>Landfill Dump Fees</b> <small>(01 74 19 00-0025)</small>	
	Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0050 for hauling.	
01 74 19 00-0034	CY Traditional Building Construction Materials Landfill Dump Fee .....	13.77
01 74 19 00-0035	TON Traditional Building Construction Materials, Landfill Dump Fee .....	60.00
01 74 19 00-0036	CY Trees, Stumps And Brush, Landfill Dump Fee .....	16.57
01 74 19 00-0037	CY Hazardous Materials And Rubbish (Paint Cans, Etcetera) Landfill Dump Fee.....	39.52
01 74 19 00-0038	CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	28.08
01 74 19 00-0039	CY Non Reinforced Concrete And/Or Rock, 2" Minus .....	4.20
01 74 19 00-0040	CY Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1".....	5.85
01 74 19 00-0041	CY Reinforced Concrete not trimmed, 2" Minus.....	10.40
01 74 19 00-0042	CY Mixed Asphalt And Concrete, Sized And Trimmed .....	4.43
01 74 19 00-0043	CY Asphalt Or Asphalt And Dirt, Sized To 2" Minus .....	5.85
01 74 19 00-0044	CY Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus.....	12.50
01 74 19 00-0045	CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash) .....	29.56
01 74 19 00-0046	CY Clay Loads, Expansive Materials .....	36.95
01 74 19 00-0047	CY Clean Asphalt, Sized 2" Minus, No Dirt.....	5.28
01 74 19 00-0048	TON General Refuse .....	44.34
01 74 19 00-0049	EA Tires .....	13.55
<b>01 74 19 00-0050</b>	<b>Hauling</b> <small>(01 74 19)</small>	
	Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.	
01 74 19 00-0051	CYM Hauling On Paved Roads, First 15 Miles .....	0.72
01 74 19 00-0052	CYM Hauling On Paved Roads, Miles Over Initial 15 Miles .....	0.48
01 74 19 00-0053	CYM Hauling On Unimproved Roads, First 15 Miles .....	1.12
01 74 19 00-0054	CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	0.88
<b>01 74 23</b>	<b>Final Cleaning</b> <small>(01 74)</small>	
<b>01 74 23 00-0001</b>	<b>Cleaning Of Glass</b> <small>(01 74 23)</small>	
01 74 23 00-0002	CSF Cleaning Of Existing Glass Surfaces .....	24.26

**END OF SECTION 01**





<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Assessment	02 20	
Existing Material Assessment	02 25	

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

### 02 20 Assessment <sup>(02)</sup>

#### 02 25 Existing Material Assessment <sup>(02 20)</sup>

##### **02 25 16 Existing Concrete, Masonry Or Asphalt Assessment** <sup>(02 25)</sup>

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

##### **02 25 16 13 Concrete Assessment Drilling** <sup>(02 25 16)</sup>

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

### 02 30 Subsurface Investigation <sup>(02)</sup>

#### 02 32 Geotechnical Investigations <sup>(02 30)</sup>

##### **02 32 13 Subsurface Drilling And Sampling** <sup>(02 32)</sup>

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

##### 02 32 13 00-0001 Mobilization Of Drilling Crew <sup>(02 32 13)</sup>

02 32 13 00-0002 EA Mobilization Of Drilling Crew .....942.10

##### 02 32 13 00-0003 Auger Borings <sup>(02 32 13)</sup>

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals .....28.38

##### 02 32 13 00-0005 Cased Borings In Earth, With Samples <sup>(02 32 13)</sup>

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples .....64.81

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples .....110.79

##### 02 32 13 00-0008 Drilling In Rock, BW Core (2.125") <sup>(02 32 13)</sup>

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing .....69.65

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes .....6.19

##### 02 32 13 00-0011 Drilling In Rock, NW Core (2.98") <sup>(02 32 13)</sup>

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing .....89.77

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes .....7.13

##### 02 32 13 00-0014 Test Pits For Boring Activities <sup>(02 32 13)</sup>

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

##### 02 32 13 00-0015 Backhoe Dug Test Pits <sup>(02 32 13 00-0014)</sup>

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation .....55.67

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation .....64.94

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation .....86.59

##### 02 32 13 00-0019 Hand-Dug Test Pits <sup>(02 32 13 00-0014)</sup>

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation .....163.73

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation .....294.71

##### 02 32 13 00-0022 Shelby Tube Sampling <sup>(02 32 13)</sup>

02 32 13 00-0023 EA Shelby Tube Sampling .....31.15

02 32 13 00-0024 EA Penetration Test .....25.38

##### 02 32 13 00-0025 Grouting <sup>(02 32 13)</sup>

02 32 13 00-0026 VLF Boreholes .....5.90

##### **02 32 19 Exploratory Excavations** <sup>(02 32)</sup>

##### 02 32 19 00-0001 Hydro Excavation <sup>(02 32 19)</sup>

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization .....105.05

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge .....420.20

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

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) .....35.01

Note: Normal soil conditions consist of silt, sand and gravel.

**02 Existing Conditions****02 30 Subsurface Investigation****02 32 Geotechnical Investigations**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....56.02  
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

**02 40 Demolition And Structure Moving (02)****02 41 Demolition (02 40)****02 41 13 Selective Site Demolition (02 41)****02 41 13 13 Paving Removal (02 41 13)**

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

**02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving (02 41 13 13)**

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving .....	5.73
		For >500 To 1,000, Deduct	-0.57
		For >1,000 To 2,500, Deduct	-1.03
		For >2,500 To 5,000, Deduct	-1.49
		For >5,000 To 10,000, Deduct	-1.95
		For >10,000, Deduct	-2.41
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving.....	8.59
		For >500 To 1,000, Deduct	-0.86
		For >1,000 To 2,500, Deduct	-1.55
		For >2,500 To 5,000, Deduct	-2.23
		For >5,000 To 10,000, Deduct	-2.92
		For >10,000, Deduct	-3.61
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving .....	9.92
		For >500 To 1,000, Deduct	-0.99
		For >1,000 To 2,500, Deduct	-1.79
		For >2,500 To 5,000, Deduct	-2.58
		For >5,000 To 10,000, Deduct	-3.37
		For >10,000, Deduct	-4.17
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving.....	14.00
		For >500 To 1,000, Deduct	-1.40
		For >1,000 To 2,500, Deduct	-2.52
		For >2,500 To 5,000, Deduct	-3.64
		For >5,000 To 10,000, Deduct	-4.76
		For >10,000, Deduct	-5.88
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving.....	19.83
		For >500 To 1,000, Deduct	-1.98
		For >1,000 To 2,500, Deduct	-3.57
		For >2,500 To 5,000, Deduct	-5.16
		For >5,000 To 10,000, Deduct	-6.74
		For >10,000, Deduct	-8.33
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	28.00
		For >500 To 1,000, Deduct	-2.80
		For >1,000 To 2,500, Deduct	-5.04
		For >2,500 To 5,000, Deduct	-7.28
		For >5,000 To 10,000, Deduct	-9.52
		For >10,000, Deduct	-11.76
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	36.61
		For >500 To 1,000, Deduct	-3.66
		For >1,000 To 2,500, Deduct	-6.59
		For >2,500 To 5,000, Deduct	-9.52
		For >5,000 To 10,000, Deduct	-12.45
		For >10,000, Deduct	-15.38
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	47.60
		For >500 To 1,000, Deduct	-4.76
		For >1,000 To 2,500, Deduct	-8.57
		For >2,500 To 5,000, Deduct	-12.38
		For >5,000 To 10,000, Deduct	-16.18
		For >10,000, Deduct	-19.99

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

41 13 13)

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

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving .....	1.45
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving .....	1.84
02 41 13 13-0013	SF	>6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving .....	2.43
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving .....	1.81
02 41 13 13-0015	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving.....	2.30
02 41 13 13-0016	SF	>6" To 8" By Hand, Break-up And Leave In Place Concrete Paving.....	3.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0017 <b>By Machine, Break-up And Remove Bituminous And Concrete Paving</b> <small>(02 41 13 13)</small>		
<small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 13 13-0018 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving.....	11.07	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	3.32	
<i>For Elevated Slab, Add</i>	5.54	
<i>For &gt;500 To 1,000, Deduct</i>	-1.11	
<i>For &gt;1,000 To 2,500, Deduct</i>	-1.99	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.88	
<i>For &gt;5,000 To 10,000, Deduct</i>	-3.76	
<i>For &gt;10,000, Deduct</i>	-4.65	
02 41 13 13-0019 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	15.11	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	4.53	
<i>For Elevated Slab, Add</i>	7.56	
<i>For &gt;500 To 1,000, Deduct</i>	-1.51	
<i>For &gt;1,000 To 2,500, Deduct</i>	-2.72	
<i>For &gt;2,500 To 5,000, Deduct</i>	-3.93	
<i>For &gt;5,000 To 10,000, Deduct</i>	-5.14	
<i>For &gt;10,000, Deduct</i>	-6.35	
02 41 13 13-0020 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	12.73	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	3.82	
<i>For Elevated Slab, Add</i>	6.37	
<i>For &gt;500 To 1,000, Deduct</i>	-1.27	
<i>For &gt;1,000 To 2,500, Deduct</i>	-2.29	
<i>For &gt;2,500 To 5,000, Deduct</i>	-3.31	
<i>For &gt;5,000 To 10,000, Deduct</i>	-4.33	
<i>For &gt;10,000, Deduct</i>	-5.35	
02 41 13 13-0021 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.66	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	5.00	
<i>For Elevated Slab, Add</i>	8.33	
<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.00	
<i>For &gt;2,500 To 5,000, Deduct</i>	-4.33	
<i>For &gt;5,000 To 10,000, Deduct</i>	-5.66	
<i>For &gt;10,000, Deduct</i>	-7.00	
02 41 13 13-0022 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	16.90	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	5.07	
<i>For Elevated Slab, Add</i>	8.45	
<i>For &gt;500 To 1,000, Deduct</i>	-1.69	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.04	
<i>For &gt;2,500 To 5,000, Deduct</i>	-4.39	
<i>For &gt;5,000 To 10,000, Deduct</i>	-5.75	
<i>For &gt;10,000, Deduct</i>	-7.10	
02 41 13 13-0023 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	21.90	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.57	
<i>For Elevated Slab, Add</i>	10.95	
<i>For &gt;500 To 1,000, Deduct</i>	-2.19	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.94	
<i>For &gt;2,500 To 5,000, Deduct</i>	-5.69	
<i>For &gt;5,000 To 10,000, Deduct</i>	-7.45	
<i>For &gt;10,000, Deduct</i>	-9.20	
02 41 13 13-0024 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	36.30	
<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	10.89	
<i>For Elevated Slab, Add</i>	18.15	
<i>For &gt;500 To 1,000, Deduct</i>	-3.63	
<i>For &gt;1,000 To 2,500, Deduct</i>	-6.53	
<i>For &gt;2,500 To 5,000, Deduct</i>	-9.44	
<i>For &gt;5,000 To 10,000, Deduct</i>	-12.34	
<i>For &gt;10,000, Deduct</i>	-15.25	
02 41 13 13-0025 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	18.33	
<i>For Elevated Slab, Add</i>	9.17	
<i>For &gt;500 To 1,000, Deduct</i>	-1.83	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.30	
<i>For &gt;2,500 To 5,000, Deduct</i>	-4.77	
<i>For &gt;5,000 To 10,000, Deduct</i>	-6.23	
<i>For &gt;10,000, Deduct</i>	-7.70	
02 41 13 13-0026 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	23.56	
<i>For Elevated Slab, Add</i>	11.78	
<i>For &gt;500 To 1,000, Deduct</i>	-2.36	
<i>For &gt;1,000 To 2,500, Deduct</i>	-4.24	
<i>For &gt;2,500 To 5,000, Deduct</i>	-6.13	
<i>For &gt;5,000 To 10,000, Deduct</i>	-8.01	
<i>For &gt;10,000, Deduct</i>	-9.90	
02 41 13 13-0027 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	42.13	
<i>For Elevated Slab, Add</i>	21.07	
<i>For &gt;500 To 1,000, Deduct</i>	-4.21	
<i>For &gt;1,000 To 2,500, Deduct</i>	-7.58	
<i>For &gt;2,500 To 5,000, Deduct</i>	-10.95	
<i>For &gt;5,000 To 10,000, Deduct</i>	-14.32	
<i>For &gt;10,000, Deduct</i>	-17.69	

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving .....	54.98	
For Elevated Slab, Add	27.49	
For >500 To 1,000, Deduct	-5.50	
For >1,000 To 2,500, Deduct	-9.90	
For >2,500 To 5,000, Deduct	-14.29	
For >5,000 To 10,000, Deduct	-18.69	
For >10,000, Deduct	-23.09	
02 41 13 13-0029 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving .....	71.88	
For Elevated Slab, Add	35.94	
For >500 To 1,000, Deduct	-7.19	
For >1,000 To 2,500, Deduct	-12.94	
For >2,500 To 5,000, Deduct	-18.69	
For >5,000 To 10,000, Deduct	-24.44	
For >10,000, Deduct	-30.19	
02 41 13 13-0030 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving .....	87.23	
For Elevated Slab, Add	43.62	
For >500 To 1,000, Deduct	-8.72	
For >1,000 To 2,500, Deduct	-15.70	
For >2,500 To 5,000, Deduct	-22.68	
For >5,000 To 10,000, Deduct	-29.66	
For >10,000, Deduct	-36.64	
<b>02 41 13 13-0031 By Hand, Break-up And Remove Bituminous And Concrete Paving</b> <small>(02 41 13 13)</small>		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0032 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving .....	5.52	
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Concrete Paving .....	4.04	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving .....	5.57	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving .....	7.14	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving .....	5.65	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving .....	7.80	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving .....	10.00	
<b>02 41 13 13-0039 Grind Concrete</b> <small>(02 41 13 13)</small>		
02 41 13 13-0040 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard) .....	195.75	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	29.36	
For >1" To 1-1/2" Depth Of Grinding, Add	48.94	
For Up To 5, Add	39.15	
For >5 To 10, Add	19.58	
For >25 To 50, Deduct	-19.58	
For >50 To 250, Deduct	-29.36	
For >250, Deduct	-39.15	
For Sidewalks >5', Add	19.58	
For Up To 12" Additional Feathering Per Side, Add	19.58	
<b>02 41 13 13-0041 Repair Uneven Sidewalks</b> <small>(02 41 13 13)</small>		
Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2=1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0042 IF Up To 2000 Inch Feet Repair Uneven Sidewalks .....	67.27	
02 41 13 13-0043 IF 2000 To 3000 Inch Feet Repair Uneven Sidewalks .....	63.83	
02 41 13 13-0044 IF 3000 And Up Inch Feet Repair Uneven Sidewalks .....	60.37	
<b>02 41 13 15 Hydro Demolition</b> <small>(02 41 13)</small>		
<b>02 41 13 15-0001 Hydro Demolition Of Concrete Pavement</b> <small>(02 41 13 15)</small>		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet .....	5.70	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet .....	7.13	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet .....	9.50	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet .....	19.01	
<b>02 41 19 Selective Demolition</b> <small>(02 41)</small>		
<b>02 41 19 13 Selective Building Demolition</b> <small>(02 41 19)</small>		
<b>02 41 19 13-0001 Exterior Masonry Removal</b> <small>(02 41 19 13)</small>		
<b>02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior)</b> <small>(02 41 19 13-0001)</small>		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal .....	12.32	
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal .....	19.26	
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal .....	24.68	
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal .....	30.89	
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal .....	37.94	
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square .....	21.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 41 19 13-0009</b> <b>Masonry Chimney Removal</b> <small>(02 41 19 13-0001)</small>		
02 41 19 13-0010    CF    Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	24.99	
02 41 19 13-0011    CF    >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	18.77	
02 41 19 13-0012    CF    >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	14.36	
02 41 19 13-0013    CF    >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	9.94	
<b>02 41 19 13-0014</b> <b>Remove And Reset Precast, Stone Or Masonry Coping</b> <small>(02 41 19 13-0001)</small>		
<small>Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0015    LF    Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	17.17	
02 41 19 13-0016    LF    >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	25.62	
02 41 19 13-0017    LF    >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	48.88	
<b>02 41 19 13-0018</b> <b>Facade Removal</b> <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0019    SF    Stone Or Brick Veneer Facade Removal.....	4.69	
<i>For Cleaning and Storage For Reuse, Add</i>		7.04
<i>For Reinforcing, Add</i>		0.70
<b>02 41 19 13-0020</b> <b>Exterior Masonry Removal</b> <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0021    SF    Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	4.13	
02 41 19 13-0022    SF    Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	4.66	
02 41 19 13-0023    SF    Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	5.63	
02 41 19 13-0024    SF    Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.15	
02 41 19 13-0025    SF    Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	6.75	
02 41 19 13-0026    SF    Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	8.45	
02 41 19 13-0027    SF    Demolish 4" Thick Reinforced Concrete Block Exterior Wall.....	4.88	
02 41 19 13-0028    SF    Demolish 6" Thick Reinforced Concrete Block Exterior Wall.....	5.59	
02 41 19 13-0029    SF    Demolish 8" Thick Reinforced Concrete Block Exterior Wall.....	6.75	
02 41 19 13-0030    SF    Demolish 10" Thick Reinforced Concrete Block Exterior Wall.....	7.39	
02 41 19 13-0031    SF    Demolish 12" Thick Reinforced Concrete Block Exterior Wall.....	8.10	
02 41 19 13-0032    SF    Demolish 16" Thick Reinforced Concrete Block Exterior Wall.....	10.15	
02 41 19 13-0033    SF    Demolish 4" Thick Brick Exterior Wall.....	4.13	
<i>For Cleaning and Storage For Reuse, Add</i>		6.20
02 41 19 13-0034    SF    Demolish 6" Thick Brick Exterior Wall.....	4.66	
<i>For Cleaning and Storage For Reuse, Add</i>		6.99
02 41 19 13-0035    SF    Demolish 8" Thick Brick Exterior Wall.....	5.63	
<i>For Cleaning and Storage For Reuse, Add</i>		8.45
02 41 19 13-0036    SF    Demolish 10" Thick Brick Exterior Wall.....	6.15	
<i>For Cleaning and Storage For Reuse, Add</i>		9.23
02 41 19 13-0037    SF    Demolish 12" Thick Brick Exterior Wall.....	6.75	
<i>For Cleaning and Storage For Reuse, Add</i>		10.13
02 41 19 13-0038    SF    Demolish 16" Thick Brick Exterior Wall.....	8.45	
<i>For Cleaning and Storage For Reuse, Add</i>		12.68
02 41 19 13-0039    CF    Exterior Brick, Concrete Block Or Composite Removal.....	12.01	
<i>For Cleaning and Storage For Reuse, Add</i>		18.02
<i>For Reinforcing, Add</i>		1.80
<b>02 41 19 13-0040</b> <b>Lintel Removal</b> <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0041    LF    Demolish Steel Lintel.....	15.56	
02 41 19 13-0042    LF    Demolish Concrete Or Stone Lintel.....	20.74	
02 41 19 13-0043    LF    Demolish Steel Shelf Angle.....	16.42	
<b>02 41 19 13-0044</b> <b>Reinstall Lintel</b> <small>(02 41 19 13-0001)</small>		
<small>Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0045    LF    Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	9.88	
02 41 19 13-0046    LF    Reinstall Existing Concrete Or Stone Lintel.....	20.74	
02 41 19 13-0047    LF    Reinstall Existing Steel Shelf Angle.....	41.83	
<small>Note: Includes fasteners.</small>		
02 41 19 13-0048    LF    Reinstall Existing Steel Lintel.....	17.28	
02 41 19 13-0049    LF    Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls.....	70.26	
02 41 19 13-0050    LF    Removal And Replacement Of Steel Lintel Over Window Openings.....	118.13	
<b>02 41 19 13-0051</b> <b>Exterior Concrete Wall Removal</b> <small>(02 41 19 13)</small>		
02 41 19 13-0052    SF    Demolish 4" Thick Reinforced Concrete Exterior Wall.....	5.44	



<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0053	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall .....	9.87	
02 41 19 13-0054	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall .....	12.41	
02 41 19 13-0055	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall .....	14.64	
02 41 19 13-0056	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall .....	17.29	
<b>02 41 19 13-0057</b>			<b>Saw Cutting</b> (02 41 19 13) Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0058	LF		Bituminous Paving Up To 4" Depth, Saw Cut .....	1.89	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.72	
			<i>For &gt;250, Deduct</i>	-0.18	
02 41 19 13-0059	LF		Brick Masonry Up To 4" Depth, Saw Cut .....	6.95	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.74	
			<i>For &gt;250, Deduct</i>	-0.68	
02 41 19 13-0060	LF		Concrete Block Up To 4" Depth, Saw Cut .....	6.28	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.47	
			<i>For &gt;250, Deduct</i>	-0.61	
02 41 19 13-0061	LF		Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut.....	2.19	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.83	
			<i>For &gt;250, Deduct</i>	-0.20	
02 41 19 13-0062	LF		Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut.....	2.87	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.09	
			<i>For &gt;250, Deduct</i>	-0.27	
02 41 19 13-0063	LF		Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut.....	4.69	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.82	
			<i>For &gt;250, Deduct</i>	-0.45	
02 41 19 13-0064	LF		Plain Concrete Walls Up To 4" Depth, Saw Cut.....	8.87	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	3.50	
			<i>For &gt;250, Deduct</i>	-0.87	
02 41 19 13-0065	LF		Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	11.91	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	4.70	
			<i>For &gt;250, Deduct</i>	-1.17	
02 41 19 13-0066	LF		Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	2.23	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.82	
			<i>For &gt;250, Deduct</i>	-0.20	
02 41 19 13-0067	LF		Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	6.31	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.48	
			<i>For &gt;250, Deduct</i>	-0.62	
02 41 19 13-0068	LF		Sedimentary Stone Pavements Up To 4" Depth, Saw Cut.....	6.31	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.48	
			<i>For &gt;250, Deduct</i>	-0.62	
02 41 19 13-0069	LF		Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	6.31	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.48	
			<i>For &gt;250, Deduct</i>	-0.62	
02 41 19 13-0070	LF		Terrazzo Stone Pavements Up To 4" Depth, Saw Cut.....	6.31	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.48	
			<i>For &gt;250, Deduct</i>	-0.62	
02 41 19 13-0071	EA		Saw Cut Minimum Set-up Charge, One Per Project .....	790.50	
			Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0072</b>			<b>Torch Cutting</b> (02 41 19 13) Note: Includes grinding edge		
02 41 19 13-0073	LF		Up To 1/2", Torch Cut Steel Plate .....	2.48	
02 41 19 13-0074	LF		>1/2" To 1" Thick, Torch Cut Steel Plate.....	4.95	
02 41 19 13-0075	LF		>1" To 1-1/2" Thick, Torch Cut Steel Plate.....	7.43	
02 41 19 13-0076	LF		>1-1/2" To 2" Thick, Torch Cut Steel Plate.....	9.91	
02 41 19 13-0077	LF		>2" To 2-1/2" Thick, Torch Cut Steel Plate.....	12.39	
02 41 19 13-0078	LF		>2-1/2" To 3" Thick, Torch Cut Steel Plate.....	14.86	
02 41 19 13-0079	EA		Torch Cutting Minimum Charge .....	750.75	
			Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0080</b>			<b>Drilling In Existing Materials</b> (02 41 19 13) Note: Includes drill bit wear, water, layout, set-up and clean-up.		
<b>02 41 19 13-0081</b>			<b>Concrete Core Drilling</b> (02 41 19 13-0080)		
<b>02 41 19 13-0082</b>			<b>Up To 4" Thick Concrete Core Drilling</b> (02 41 19 13-0081)		
02 41 19 13-0083	EA		Drill 1" Diameter Core In Up To 4" Concrete.....	35.87	
			<i>For Horizontal Cores, Add</i>	6.63	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.27	
02 41 19 13-0084	EA		Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	39.54	
			<i>For Horizontal Cores, Add</i>	7.37	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.74	
02 41 19 13-0085	EA		Drill 2" Diameter Core In Up To 4" Concrete.....	43.65	
			<i>For Horizontal Cores, Add</i>	8.19	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0086 EA Drill 3" Diameter Core In Up To 4" Concrete.....	62.12	
<i>For Horizontal Cores, Add</i>	11.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.40	
02 41 19 13-0087 EA Drill 4" Diameter Core In Up To 4" Concrete.....	83.27	
<i>For Horizontal Cores, Add</i>	15.68	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.35	
02 41 19 13-0088 EA Drill 6" Diameter Core In Up To 4" Concrete.....	93.90	
<i>For Horizontal Cores, Add</i>	17.55	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.10	
02 41 19 13-0089 EA Drill 8" Diameter Core In Up To 4" Concrete.....	148.83	
<i>For Horizontal Cores, Add</i>	28.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	56.16	
02 41 19 13-0090 EA Drill 10" Diameter Core In Up To 4" Concrete.....	186.98	
<i>For Horizontal Cores, Add</i>	35.09	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	70.19	
02 41 19 13-0091 EA Drill 12" Diameter Core In Up To 4" Concrete.....	218.53	
<i>For Horizontal Cores, Add</i>	40.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.90	
02 41 19 13-0092 EA Drill 14" Diameter Core In Up To 4" Concrete.....	250.37	
<i>For Horizontal Cores, Add</i>	46.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.58	
02 41 19 13-0093 EA Drill 18" Diameter Core In Up To 4" Concrete.....	284.28	
<i>For Horizontal Cores, Add</i>	52.64	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	105.28	
<b>02 41 19 13-0094 &gt;4" To 6" Thick Concrete Core Drilling (02 41 19 13-0081)</b>		
02 41 19 13-0095 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	51.51	
<i>For Horizontal Cores, Add</i>	9.47	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.95	
02 41 19 13-0096 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	56.77	
<i>For Horizontal Cores, Add</i>	10.53	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.05	
02 41 19 13-0097 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	62.63	
<i>For Horizontal Cores, Add</i>	11.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.40	
02 41 19 13-0098 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	75.87	
<i>For Horizontal Cores, Add</i>	14.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.08	
02 41 19 13-0099 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	95.25	
<i>For Horizontal Cores, Add</i>	17.55	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.10	
02 41 19 13-0100 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	126.34	
<i>For Horizontal Cores, Add</i>	23.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.80	
02 41 19 13-0101 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	188.24	
<i>For Horizontal Cores, Add</i>	35.09	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	70.19	
02 41 19 13-0102 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	221.95	
<i>For Horizontal Cores, Add</i>	40.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.90	
02 41 19 13-0103 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	254.58	
<i>For Horizontal Cores, Add</i>	46.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.58	
02 41 19 13-0104 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	288.27	
<i>For Horizontal Cores, Add</i>	52.64	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	105.28	
02 41 19 13-0105 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	324.95	
<i>For Horizontal Cores, Add</i>	58.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.98	
<b>02 41 19 13-0106 &gt;6" To 8" Thick Concrete Core Drilling (02 41 19 13-0081)</b>		
02 41 19 13-0107 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	57.74	
<i>For Horizontal Cores, Add</i>	10.42	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.85	
02 41 19 13-0108 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	63.53	
<i>For Horizontal Cores, Add</i>	11.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.16	
02 41 19 13-0109 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	69.96	
<i>For Horizontal Cores, Add</i>	12.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.74	
02 41 19 13-0110 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	83.77	
<i>For Horizontal Cores, Add</i>	15.21	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.42	
02 41 19 13-0111 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	109.57	
<i>For Horizontal Cores, Add</i>	19.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.78	
02 41 19 13-0112 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	152.93	
<i>For Horizontal Cores, Add</i>	28.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	56.16	
02 41 19 13-0113 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	251.05	
<i>For Horizontal Cores, Add</i>	46.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.58	

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0114 EA Drill 10" Diameter Core In >6" To 8" Concrete .....	286.10	
For Horizontal Cores, Add	52.64	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.28	
02 41 19 13-0115 EA Drill 12" Diameter Core In >6" To 8" Concrete .....	319.93	
For Horizontal Cores, Add	58.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.98	
02 41 19 13-0116 EA Drill 14" Diameter Core In >6" To 8" Concrete .....	355.38	
For Horizontal Cores, Add	64.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.66	
02 41 19 13-0117 EA Drill 18" Diameter Core In >6" To 8" Concrete .....	394.85	
For Horizontal Cores, Add	70.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	140.38	
<b>02 41 19 13-0118 &gt;8" To 10" Thick Concrete Core Drilling (02 41 19 13-0081)</b>		
02 41 19 13-0119 EA Drill 1" Diameter Core In >8" To 10" Concrete .....	68.69	
For Horizontal Cores, Add	12.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.64	
02 41 19 13-0120 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete .....	75.53	
For Horizontal Cores, Add	13.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.37	
02 41 19 13-0121 EA Drill 2" Diameter Core In >8" To 10" Concrete .....	83.14	
For Horizontal Cores, Add	15.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.42	
02 41 19 13-0122 EA Drill 3" Diameter Core In >8" To 10" Concrete .....	97.52	
For Horizontal Cores, Add	17.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.10	
02 41 19 13-0123 EA Drill 4" Diameter Core In >8" To 10" Concrete .....	112.20	
For Horizontal Cores, Add	19.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.78	
02 41 19 13-0124 EA Drill 6" Diameter Core In >8" To 10" Concrete .....	156.12	
For Horizontal Cores, Add	28.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.16	
02 41 19 13-0125 EA Drill 8" Diameter Core In >8" To 10" Concrete .....	255.38	
For Horizontal Cores, Add	46.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.58	
02 41 19 13-0126 EA Drill 10" Diameter Core In >8" To 10" Concrete .....	291.80	
For Horizontal Cores, Add	52.64	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.28	
02 41 19 13-0127 EA Drill 12" Diameter Core In >8" To 10" Concrete .....	326.71	
For Horizontal Cores, Add	58.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.96	
02 41 19 13-0128 EA Drill 14" Diameter Core In >8" To 10" Concrete .....	364.05	
For Horizontal Cores, Add	64.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.66	
02 41 19 13-0129 EA Drill 18" Diameter Core In >8" To 10" Concrete .....	406.17	
For Horizontal Cores, Add	70.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	140.35	
<b>02 41 19 13-0130 &gt;10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)</b>		
02 41 19 13-0131 EA Drill 1" Diameter Core In >10" To 12" Concrete .....	74.92	
For Horizontal Cores, Add	13.27	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.54	
02 41 19 13-0132 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete .....	82.28	
For Horizontal Cores, Add	14.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.48	
02 41 19 13-0133 EA Drill 2" Diameter Core In >10" To 12" Concrete .....	90.48	
For Horizontal Cores, Add	16.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.76	
02 41 19 13-0134 EA Drill 3" Diameter Core In >10" To 12" Concrete .....	99.57	
For Horizontal Cores, Add	17.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.10	
02 41 19 13-0135 EA Drill 4" Diameter Core In >10" To 12" Concrete .....	132.37	
For Horizontal Cores, Add	23.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.80	
02 41 19 13-0136 EA Drill 6" Diameter Core In >10" To 12" Concrete .....	171.02	
For Horizontal Cores, Add	30.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	60.84	
02 41 19 13-0137 EA Drill 8" Diameter Core In >10" To 12" Concrete .....	271.42	
For Horizontal Cores, Add	49.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.26	
02 41 19 13-0138 EA Drill 10" Diameter Core In >10" To 12" Concrete .....	297.50	
For Horizontal Cores, Add	52.64	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.28	
02 41 19 13-0139 EA Drill 12" Diameter Core In >10" To 12" Concrete .....	345.33	
For Horizontal Cores, Add	60.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	121.67	
<b>02 41 19 13-0140 &gt;12" Thick Concrete Core Drilling (02 41 19 13-0081)</b>		
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete .....	8.83	
For Horizontal Cores, Add	1.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete .....	9.73	
<i>For Horizontal Cores, Add</i>	1.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.60	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete .....	10.73	
<i>For Horizontal Cores, Add</i>	2.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.00	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete .....	11.96	
<i>For Horizontal Cores, Add</i>	2.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.39	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete .....	15.89	
<i>For Horizontal Cores, Add</i>	2.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.84	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete .....	20.60	
<i>For Horizontal Cores, Add</i>	3.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.61	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete .....	32.89	
<i>For Horizontal Cores, Add</i>	6.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.30	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete .....	35.90	
<i>For Horizontal Cores, Add</i>	6.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.22	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete .....	41.48	
<i>For Horizontal Cores, Add</i>	7.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.22	
<b>02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)</b>		
<b>02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block .....	29.24	
<i>For Horizontal Cores, Add</i>	5.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.62	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block .....	32.17	
<i>For Horizontal Cores, Add</i>	5.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.79	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block .....	35.46	
<i>For Horizontal Cores, Add</i>	6.55	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.10	
02 41 19 13-0155 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block .....	50.42	
<i>For Horizontal Cores, Add</i>	9.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.72	
02 41 19 13-0156 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block .....	67.59	
<i>For Horizontal Cores, Add</i>	12.54	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.08	
02 41 19 13-0157 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block .....	76.35	
<i>For Horizontal Cores, Add</i>	14.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.08	
02 41 19 13-0158 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block .....	120.75	
<i>For Horizontal Cores, Add</i>	22.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.92	
02 41 19 13-0159 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block .....	151.90	
<i>For Horizontal Cores, Add</i>	28.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	56.16	
02 41 19 13-0160 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block .....	177.58	
<i>For Horizontal Cores, Add</i>	32.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	65.52	
02 41 19 13-0161 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block .....	203.58	
<i>For Horizontal Cores, Add</i>	37.43	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	74.86	
02 41 19 13-0162 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block .....	231.64	
<i>For Horizontal Cores, Add</i>	42.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	84.22	
<b>02 41 19 13-0163 &gt;4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0164 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block .....	42.03	
<i>For Horizontal Cores, Add</i>	7.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.16	
02 41 19 13-0165 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block .....	46.25	
<i>For Horizontal Cores, Add</i>	8.42	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.84	
02 41 19 13-0166 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block .....	50.93	
<i>For Horizontal Cores, Add</i>	9.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.72	
02 41 19 13-0167 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block .....	61.83	
<i>For Horizontal Cores, Add</i>	11.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.46	
02 41 19 13-0168 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block .....	77.70	
<i>For Horizontal Cores, Add</i>	14.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.08	
02 41 19 13-0169 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block .....	102.94	
<i>For Horizontal Cores, Add</i>	18.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.44	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0170 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block .....	153.16	
For Horizontal Cores, Add	28.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.16	
02 41 19 13-0171 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block .....	181.00	
For Horizontal Cores, Add	32.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	65.52	
02 41 19 13-0172 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block .....	207.79	
For Horizontal Cores, Add	37.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.86	
02 41 19 13-0173 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block .....	235.63	
For Horizontal Cores, Add	42.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.22	
02 41 19 13-0174 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block .....	266.45	
For Horizontal Cores, Add	46.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.58	
<b>02 41 19 13-0175 &gt;6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0176 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block .....	47.32	
For Horizontal Cores, Add	8.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.68	
02 41 19 13-0177 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block .....	51.95	
For Horizontal Cores, Add	9.27	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.53	
02 41 19 13-0178 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block .....	57.10	
For Horizontal Cores, Add	10.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.59	
02 41 19 13-0179 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block .....	68.56	
For Horizontal Cores, Add	12.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.33	
02 41 19 13-0180 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block .....	89.67	
For Horizontal Cores, Add	15.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.82	
02 41 19 13-0181 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block .....	124.85	
For Horizontal Cores, Add	22.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.92	
02 41 19 13-0182 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block .....	204.26	
For Horizontal Cores, Add	37.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.86	
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block .....	233.46	
For Horizontal Cores, Add	42.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.22	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block .....	261.43	
For Horizontal Cores, Add	46.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.58	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block .....	291.05	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block .....	324.66	
For Horizontal Cores, Add	56.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.31	
<b>02 41 19 13-0187 &gt;8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block .....	56.37	
For Horizontal Cores, Add	9.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.71	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block .....	61.85	
For Horizontal Cores, Add	10.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.90	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block .....	67.93	
For Horizontal Cores, Add	12.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.33	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block .....	79.97	
For Horizontal Cores, Add	14.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.08	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block .....	92.30	
For Horizontal Cores, Add	15.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.82	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block .....	128.04	
For Horizontal Cores, Add	22.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.92	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block .....	208.59	
For Horizontal Cores, Add	37.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.86	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block .....	239.16	
For Horizontal Cores, Add	42.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.22	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block .....	268.22	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.56	
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block .....	299.72	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block .....	335.99	
<i>For Horizontal Cores, Add</i>	56.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.28	
<b>02 41 19 13-0199 &gt;10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block .....	61.64	
<i>For Horizontal Cores, Add</i>	10.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.22	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block .....	67.54	
<i>For Horizontal Cores, Add</i>	11.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.58	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block .....	74.09	
<i>For Horizontal Cores, Add</i>	13.10	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.20	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block .....	82.02	
<i>For Horizontal Cores, Add</i>	14.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.08	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block .....	108.97	
<i>For Horizontal Cores, Add</i>	18.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.44	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block .....	140.60	
<i>For Horizontal Cores, Add</i>	24.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	48.67	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block .....	222.29	
<i>For Horizontal Cores, Add</i>	39.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.61	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block .....	244.86	
<i>For Horizontal Cores, Add</i>	42.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	84.22	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block .....	284.50	
<i>For Horizontal Cores, Add</i>	48.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	97.34	
<b>02 41 19 13-0209 &gt;12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)</b>		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block .....	7.21	
<i>For Horizontal Cores, Add</i>	1.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.60	
02 41 19 13-0211 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block .....	7.93	
<i>For Horizontal Cores, Add</i>	1.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.88	
02 41 19 13-0212 IN Drill 2" Diameter Core In >12" Brick/Concrete Block .....	8.73	
<i>For Horizontal Cores, Add</i>	1.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.20	
02 41 19 13-0213 IN Drill 3" Diameter Core In >12" Brick/Concrete Block .....	9.76	
<i>For Horizontal Cores, Add</i>	1.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.51	
02 41 19 13-0214 IN Drill 4" Diameter Core In >12" Brick/Concrete Block .....	12.97	
<i>For Horizontal Cores, Add</i>	2.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.68	
02 41 19 13-0215 IN Drill 6" Diameter Core In >12" Brick/Concrete Block .....	16.80	
<i>For Horizontal Cores, Add</i>	3.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.09	
02 41 19 13-0216 IN Drill 8" Diameter Core In >12" Brick/Concrete Block .....	26.73	
<i>For Horizontal Cores, Add</i>	4.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.83	
02 41 19 13-0217 IN Drill 10" Diameter Core In >12" Brick/Concrete Block .....	29.29	
<i>For Horizontal Cores, Add</i>	5.29	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.57	
02 41 19 13-0218 IN Drill 12" Diameter Core In >12" Brick/Concrete Block .....	33.86	
<i>For Horizontal Cores, Add</i>	6.09	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.17	
<b>02 41 19 13-0219 Asphalt Core Drilling (02 41 19 13-0080)</b>		
<b>02 41 19 13-0220 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)</b>		
02 41 19 13-0221 EA Drill 1" Diameter Core In Up To 2" Asphalt .....	16.53	
02 41 19 13-0222 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt .....	20.70	
02 41 19 13-0223 EA Drill 2" Diameter Core In Up To 2" Asphalt .....	25.89	
02 41 19 13-0224 EA Drill 3" Diameter Core In Up To 2" Asphalt .....	32.18	
02 41 19 13-0225 EA Drill 4" Diameter Core In Up To 2" Asphalt .....	40.52	
02 41 19 13-0226 EA Drill 6" Diameter Core In Up To 2" Asphalt .....	50.94	
02 41 19 13-0227 EA Drill 8" Diameter Core In Up To 2" Asphalt .....	63.63	
02 41 19 13-0228 EA Drill 10" Diameter Core In Up To 2" Asphalt .....	79.04	
02 41 19 13-0229 EA Drill 12" Diameter Core In Up To 2" Asphalt .....	98.65	
<b>02 41 19 13-0230 &gt;2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)</b>		
02 41 19 13-0231 EA Drill 1" Diameter Core In >2" To 3" Asphalt .....	20.65	
02 41 19 13-0232 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt .....	26.83	
02 41 19 13-0233 EA Drill 2" Diameter Core In >2" To 3" Asphalt .....	33.00	
02 41 19 13-0234 EA Drill 3" Diameter Core In >2" To 3" Asphalt .....	41.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0235 EA Drill 4" Diameter Core In >2" To 3" Asphalt.....	51.77	
02 41 19 13-0236 EA Drill 6" Diameter Core In >2" To 3" Asphalt.....	65.24	
02 41 19 13-0237 EA Drill 8" Diameter Core In >2" To 3" Asphalt.....	81.05	
02 41 19 13-0238 EA Drill 10" Diameter Core In >2" To 3" Asphalt.....	101.54	
02 41 19 13-0239 EA Drill 12" Diameter Core In >2" To 3" Asphalt.....	126.27	
<b>02 41 19 13-0240 &gt;3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)</b>		
02 41 19 13-0241 EA Drill 1" Diameter Core In >3" To 4" Asphalt.....	26.89	
02 41 19 13-0242 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	34.18	
02 41 19 13-0243 EA Drill 2" Diameter Core In >3" To 4" Asphalt.....	42.41	
02 41 19 13-0244 EA Drill 3" Diameter Core In >3" To 4" Asphalt.....	52.88	
02 41 19 13-0245 EA Drill 4" Diameter Core In >3" To 4" Asphalt.....	66.53	
02 41 19 13-0246 EA Drill 6" Diameter Core In >3" To 4" Asphalt.....	83.18	
02 41 19 13-0247 EA Drill 8" Diameter Core In >3" To 4" Asphalt.....	104.33	
02 41 19 13-0248 EA Drill 10" Diameter Core In >3" To 4" Asphalt.....	130.03	
02 41 19 13-0249 EA Drill 12" Diameter Core In >3" To 4" Asphalt.....	162.03	
<b>02 41 19 13-0250 &gt;4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)</b>		
02 41 19 13-0251 EA Drill 1" Diameter Core In >4" To 6" Asphalt.....	35.34	
02 41 19 13-0252 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt.....	43.76	
02 41 19 13-0253 EA Drill 2" Diameter Core In >4" To 6" Asphalt.....	54.11	
02 41 19 13-0254 EA Drill 3" Diameter Core In >4" To 6" Asphalt.....	68.93	
02 41 19 13-0255 EA Drill 4" Diameter Core In >4" To 6" Asphalt.....	85.86	
02 41 19 13-0256 EA Drill 6" Diameter Core In >4" To 6" Asphalt.....	106.79	
02 41 19 13-0257 EA Drill 8" Diameter Core In >4" To 6" Asphalt.....	134.53	
02 41 19 13-0258 EA Drill 10" Diameter Core In >4" To 6" Asphalt.....	167.54	
02 41 19 13-0259 EA Drill 12" Diameter Core In >4" To 6" Asphalt.....	209.09	
<b>02 41 19 13-0260 Manhole Core Drilling (02 41 19 13-0080)</b>		
02 41 19 13-0261 EA Drill 4" Diameter Core In 6" Brick Manhole.....	180.54	
02 41 19 13-0262 EA Drill 5" Diameter Core In 6" Brick Manhole.....	206.26	
02 41 19 13-0263 EA Drill 6" Diameter Core In 6" Brick Manhole.....	240.22	
02 41 19 13-0264 EA Drill 8" Diameter Core In 6" Brick Manhole.....	359.51	
02 41 19 13-0265 EA Drill 2" Diameter Core In 8" Concrete Manhole.....	240.90	
02 41 19 13-0266 EA Drill 3" Diameter Core In 8" Concrete Manhole.....	258.02	
02 41 19 13-0267 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	285.45	
02 41 19 13-0268 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	306.69	
02 41 19 13-0269 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	362.95	
02 41 19 13-0270 EA Drill 8" Diameter Core In 8" Concrete Manhole.....	517.68	
02 41 19 13-0271 EA Drill 2" Diameter Core In Fiberglass Manhole.....	23.53	
02 41 19 13-0272 EA Drill 3" Diameter Core In Fiberglass Manhole.....	27.20	
02 41 19 13-0273 EA Drill 4" Diameter Core In Fiberglass Manhole.....	29.52	
02 41 19 13-0274 EA Drill 5" Diameter Core In Fiberglass Manhole.....	32.20	
02 41 19 13-0275 EA Drill 6" Diameter Core In Fiberglass Manhole.....	35.44	
02 41 19 13-0276 EA Drill 8" Diameter Core In Fiberglass Manhole.....	39.40	
<b>02 41 19 13-0277 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)</b>		
Note: Includes layout.		
02 41 19 13-0278 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	1.93	
02 41 19 13-0279 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.02	
02 41 19 13-0280 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.17	
02 41 19 13-0281 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.31	
02 41 19 13-0282 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.53	
02 41 19 13-0283 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.75	
02 41 19 13-0284 IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	2.90	
02 41 19 13-0285 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.20	
02 41 19 13-0286 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	3.61	
<b>02 41 19 13-0287 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)</b>		
Note: Includes layout.		
02 41 19 13-0288 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.61	
02 41 19 13-0289 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.70	
02 41 19 13-0290 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.82	
02 41 19 13-0291 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.94	
02 41 19 13-0292 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.12	
02 41 19 13-0293 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.31	
02 41 19 13-0294 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.43	
02 41 19 13-0295 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.68	
02 41 19 13-0296 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.13	
<b>02 41 19 13-0297 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)</b>		
Note: Includes layout.		
02 41 19 13-0298 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.79	
02 41 19 13-0299 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.84	
02 41 19 13-0300 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.89	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				02 41 19 13-0301 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	.095	
				02 41 19 13-0302 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.04	
				02 41 19 13-0303 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.12	
				02 41 19 13-0304 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.19	
				02 41 19 13-0305 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.32	
				02 41 19 13-0306 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.51	
<b>02 41 19 13-0307</b>				<b>Limestone Core Drilling</b> (02 41 19 13-0080)		
<b>02 41 19 13-0308</b>				<b>10" To 14" Thick Limestone Core Drilling</b> (02 41 19 13-0307)		
			EA	02 41 19 13-0309 Drill 1" Diameter Core In 10" To 14" Limestone.....	53.60	
			EA	02 41 19 13-0310 Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	64.68	
			EA	02 41 19 13-0311 Drill 2" Diameter Core In 10" To 14" Limestone.....	70.75	
			EA	02 41 19 13-0312 Drill 3" Diameter Core In 10" To 14" Limestone.....	82.91	
			EA	02 41 19 13-0313 Drill 4" Diameter Core In 10" To 14" Limestone.....	95.29	
			EA	02 41 19 13-0314 Drill 6" Diameter Core In 10" To 14" Limestone.....	132.73	
			EA	02 41 19 13-0315 Drill 8" Diameter Core In 10" To 14" Limestone.....	217.38	
<b>02 41 19 13-0316</b>				<b>15" To 18" Thick Limestone Core Drilling</b> (02 41 19 13-0307)		
			EA	02 41 19 13-0317 Drill 1" Diameter Core In 15" To 18" Limestone.....	59.34	
			EA	02 41 19 13-0318 Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	70.64	
			EA	02 41 19 13-0319 Drill 2" Diameter Core In 15" To 18" Limestone.....	76.95	
			EA	02 41 19 13-0320 Drill 3" Diameter Core In 15" To 18" Limestone.....	84.56	
			EA	02 41 19 13-0321 Drill 4" Diameter Core In 15" To 18" Limestone.....	112.41	
			EA	02 41 19 13-0322 Drill 6" Diameter Core In 15" To 18" Limestone.....	145.27	
			EA	02 41 19 13-0323 Drill 8" Diameter Core In 15" To 18" Limestone.....	230.94	
<b>02 41 19 13-0324</b>				<b>19" To 24" Thick Limestone Core Drilling</b> (02 41 19 13-0307)		
			EA	02 41 19 13-0325 Drill 1" Diameter Core In 19" To 24" Limestone.....	64.98	
			EA	02 41 19 13-0326 Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	76.49	
			EA	02 41 19 13-0327 Drill 2" Diameter Core In 19" To 24" Limestone.....	82.99	
			EA	02 41 19 13-0328 Drill 3" Diameter Core In 19" To 24" Limestone.....	95.97	
			EA	02 41 19 13-0329 Drill 4" Diameter Core In 19" To 24" Limestone.....	134.29	
			EA	02 41 19 13-0330 Drill 6" Diameter Core In 19" To 24" Limestone.....	167.59	
			EA	02 41 19 13-0331 Drill 8" Diameter Core In 19" To 24" Limestone.....	249.19	
<b>02 41 19 13-0332</b>				<b>Minimum Charge For Core Drilling</b> (02 41 19 13-0080)		
			EA	02 41 19 13-0333 Core Drill Minimum Charge.....	640.37	
				Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
<b>02 41 19 13-0334</b>				<b>Cutouts</b> (02 41 19 13)		
				Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
<b>02 41 19 13-0335</b>				<b>Reinforced Concrete Slab On Grade Cutouts</b> (02 41 19 13-0334)		
			SF	02 41 19 13-0336 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	41.33	
			SF	02 41 19 13-0337 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	43.83	
			SF	02 41 19 13-0338 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	46.34	
			SF	02 41 19 13-0339 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	48.84	
			SF	02 41 19 13-0340 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	50.10	
<b>02 41 19 13-0341</b>				<b>Reinforced Concrete Elevated Slab Cutouts</b> (02 41 19 13-0334)		
				Note: Includes cutting and removing steel decking.		
			SF	02 41 19 13-0342 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	50.37	
			SF	02 41 19 13-0343 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	53.42	
			SF	02 41 19 13-0344 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	56.48	
			SF	02 41 19 13-0345 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	59.53	
			SF	02 41 19 13-0346 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	61.05	
<b>02 41 19 13-0347</b>				<b>Reinforced Concrete Wall Cutouts</b> (02 41 19 13-0334)		
			SF	02 41 19 13-0348 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	51.66	
			SF	02 41 19 13-0349 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	54.80	
			SF	02 41 19 13-0350 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	57.93	
			SF	02 41 19 13-0351 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	61.05	
			SF	02 41 19 13-0352 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	62.62	
<b>02 41 19 13-0353</b>				<b>Brick Wall Cutouts</b> (02 41 19 13-0334)		
				Note: Excludes tothing.		
			SF	02 41 19 13-0354 4" Thick Brick Wall Cutouts, <24 SF.....	15.65	
			SF	02 41 19 13-0355 6" Thick Brick Wall Cutouts, <24 SF.....	25.83	
			SF	02 41 19 13-0356 8" Thick Brick Wall Cutouts, <24 SF.....	35.97	

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0357 SF 10" Thick Brick Wall Cutouts, <24 SF .....	43.83	
02 41 19 13-0358 SF 12" Thick Brick Wall Cutouts, <24 SF .....	52.44	
02 41 19 13-0359 SF 16" Thick Brick Wall Cutouts, <24 SF .....	61.84	
<b>02 41 19 13-0360 Concrete Block Wall Cutouts (02 41 19 13-0334)</b>		
Note: Excludes toothing.		
02 41 19 13-0361 SF 4" Thick Concrete Block Wall Cutouts, <24 SF .....	25.90	
02 41 19 13-0362 SF 6" Thick Concrete Block Wall Cutouts, <24 SF .....	27.42	
02 41 19 13-0363 SF 8" Thick Concrete Block Wall Cutouts, <24 SF .....	28.96	
02 41 19 13-0364 SF 10" Thick Concrete Block Wall Cutouts, <24 SF .....	30.53	
02 41 19 13-0365 SF 12" Thick Concrete Block Wall Cutouts, <24 SF .....	31.31	
02 41 19 13-0366 SF 16" Thick Concrete Block Wall Cutouts, <24 SF .....	32.88	
<b>02 41 19 13-0367 Limestone Cutouts (02 41 19 13-0334)</b>		
02 41 19 13-0368 SF 2" Thick Limestone Cutouts, <24 SF .....	43.83	
02 41 19 13-0369 SF 4" Thick Limestone Cutouts, <24 SF .....	53.23	
02 41 19 13-0370 SF 6" Thick Limestone Cutouts, <24 SF .....	56.36	
02 41 19 13-0371 SF 8" Thick Limestone Cutouts, <24 SF .....	59.49	
02 41 19 13-0372 SF 10" Thick Limestone Cutouts, <24 SF .....	62.62	
02 41 19 13-0373 SF 12" Thick Limestone Cutouts, <24 SF .....	65.75	
<b>02 41 19 13-0374 Tooothing Masonry Cutouts (02 41 19 13-0334)</b>		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0375 VLF Brick, Soft Old Mortar, Tooothing Masonry Cutouts .....	15.65	
02 41 19 13-0376 VLF Brick, Hard Mortar, Tooothing Masonry Cutouts .....	21.14	
02 41 19 13-0377 VLF Concrete Block, Soft Old Mortar, Tooothing Masonry Cutouts .....	9.40	
02 41 19 13-0378 VLF Concrete Block, Hard Mortar, Tooothing Masonry Cutouts .....	12.52	
<b>02 41 19 13-0379 Minimum Charge For Cutouts (02 41 19 13-0334)</b>		
Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0380 EA Cutouts Minimum Charge .....	313.11	
<b>02 43 Structure Moving (02 40)</b>		
<b>02 43 13 Structure Relocation (02 43)</b>		
Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
<b>02 43 13 13 Building Relocation (02 43 13)</b>		
<b>02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)</b>		
Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.		
02 43 13 13-0002 SF Up To 800 SF, Move Relocatable Metal Frame Building .....	29.22	
02 43 13 13-0003 SF >800 To 920 SF, Move Relocatable Metal Frame Building .....	27.62	
02 43 13 13-0004 SF >920 SF, Move Relocatable Metal Frame Building .....	25.84	
02 43 13 13-0005 SF Up To 800 SF, Move Relocatable Wood Frame Building .....	23.44	
02 43 13 13-0006 SF >800 To 920 SF, Move Relocatable Wood Frame Building .....	21.91	
02 43 13 13-0007 SF >920 SF, Move Relocatable Wood Frame Building .....	19.38	
02 43 13 13-0008 SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building .....	28.39	
02 43 13 13-0009 SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building .....	25.84	
02 43 13 13-0010 SF >920 SF, Move Relocatable Wood/Metal Frame Building .....	21.91	
<b>02 60 Contaminated Site Material Removal (02)</b>		
<b>02 61 Removal And Disposal Of Contaminated Soils (02 60)</b>		
<b>02 61 13 Excavation And Handling Of Contaminated Material (02 61)</b>		
See CSI section 31 23 16 00-0000 for excavation.		
<b>02 61 13 00-0001 Excavation Of Non-Petroleum Contaminated Soil (02 61 13)</b>		
See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.		
<b>02 61 13 00-0002 Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)</b>		
02 61 13 00-0003 CY Excavate Non Petroleum Contaminated Soil .....	7.14	
Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.		
02 61 13 00-0004 CY Load Excavated Non-Petroleum Contaminated Soil .....	6.06	
02 61 13 00-0005 CY Disposal Fees Of Non-Petroleum Contaminated Soil .....	39.52	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 61 13 00-0006 Excavate Petroleum Contaminated Soil (02 61 13)</b>						
	02 61 13 00-0007	CY		Excavate Petroleum Contaminated Soil.....10.71 Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	10.71	
	02 61 13 00-0008	CY		Load Excavated Petroleum Contaminated Soil.....6.06	6.06	
	02 61 13 00-0009	CY		Disposal Fees Of Petroleum Contaminated Soil.....63.31	63.31	
<b>02 61 13 00-0010 Accessories For Contaminated Soil Stockpile (02 61 13)</b>						
	See CSI section 31 25 14 23-0001 for sand bags.					
	02 61 13 00-0011	SF		30 Mil Liner For Contaminated Soil Storage .....1.06 Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	1.06	
	02 61 13 00-0012	SF		10 Mil Liner For Contaminated Soil Storage .....0.65 Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.65	
<b>02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)</b>						
Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.						
<b>02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)</b>						
Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.						
	02 61 26 00-0002	EA		Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....815.06 <i>For Work In Restricted Working Space, Add</i> 244.52	815.06	
	02 61 26 00-0003	CF		>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....54.03 <i>For Work In Restricted Working Space, Add</i> 16.21	54.03	
	02 61 26 00-0004	CF		>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....36.01 <i>For Work In Restricted Working Space, Add</i> 10.80	36.01	
	02 61 26 00-0005	CF		>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....27.05 <i>For Work In Restricted Working Space, Add</i> 8.12	27.05	
	02 61 26 00-0006	CF		>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....21.61 <i>For Work In Restricted Working Space, Add</i> 6.48	21.61	
	02 61 26 00-0007	CF		>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....18.37 <i>For Work In Restricted Working Space, Add</i> 5.51	18.37	
	02 61 26 00-0008	CF		>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....16.53 <i>For Work In Restricted Working Space, Add</i> 4.96	16.53	
<b>02 62 Hazardous Waste Recovery Process (02 60)</b>						
<b>02 62 16 Soil Vapor Extraction (02 62)</b>						
	02 62 16 00-0001			Active And Passive Trench System (02 62 16)		
	02 62 16 00-0002			Leachate And Gas Transfer Pipe (02 62 16 00-0001)		
	02 62 16 00-0003			High Density Polyethylene Pipe, Laterals (02 62 16 00-0002) Note: Heat fusion connections with pipe and fittings.		
	02 62 16 00-0004	LF		3" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....14.05	14.05	
	02 62 16 00-0005	LF		4" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....16.09	16.09	
	02 62 16 00-0006	LF		6" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....20.83	20.83	
	02 62 16 00-0007	LF		8" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....28.99	28.99	
	02 62 16 00-0008	LF		10" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....37.60	37.60	
	02 62 16 00-0009	LF		12" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....47.32	47.32	
	02 62 16 00-0010	EA		Monitoring And Control Assembly .....1,747.76	1,747.76	
	02 62 16 00-0011	EA		3" Header Valve Assembly .....780.94	780.94	
	02 62 16 00-0012	EA		4" Header Valve Assembly .....1,196.94	1,196.94	
	02 62 16 00-0013	EA		6" Header Valve Assembly .....1,751.36	1,751.36	
	02 62 16 00-0014	EA		8" Header Valve Assembly .....2,552.56	2,552.56	
	02 62 16 00-0015	EA		Condensate Sump Assembly .....16,895.98	16,895.98	
	02 62 16 00-0016	EA		Header Monitoring Port Assembly .....977.76	977.76	
	02 62 16 00-0017			Chemical Resistant Sump And Manhole (02 62 16 00-0001)		
	02 62 16 00-0018			High Density Polyethylene Manholes (02 62 16 00-0017)		
	02 62 16 00-0019	EA		27" Diameter Concrete Filled Polyethylene Lid Stainless Steel Handle .....215.14	215.14	
	02 62 16 00-0020	EA		4" Diameter, 2" High Riser Section With Or Without Steps .....403.87	403.87	
	02 62 16 00-0021	EA		3.25" High x 4" Diameter Upper Unit With Or Without Steps .....727.00	727.00	
	02 62 16 00-0022	EA		4.25" High x 4" Diameter Upper Unit With Or Without Steps .....846.58	846.58	
	02 62 16 00-0023	EA		3" High x 4" Diameter Manhole Base - No Outlets .....731.52	731.52	
	02 62 16 00-0024	EA		12" Inlet/Outlet - Factory Attached .....208.55	208.55	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0025 EA 15" Inlet/Outlet - Factory Attached .....	321.62	
02 62 16 00-0026 EA 18" Inlet/Outlet - Factory Attached .....	356.07	
02 62 16 00-0027 EA 24" Inlet/Outlet - Factory Attached .....	421.01	
02 62 16 00-0028 EA 30" Inlet/Outlet - Factory Attached .....	480.37	
02 62 16 00-0029 EA 36" Inlet/Outlet - Factory Attached .....	563.78	
02 62 16 00-0030 EA 4" Inlet Gasket - To Attach Leachate Transport Pipe .....	9.88	
02 62 16 00-0031 EA 6" Inlet Gasket - To Attach Leachate Transport Pipe .....	13.18	
02 62 16 00-0032 EA 8" Inlet Gasket - To Attach Leachate Transport Pipe .....	16.47	
02 62 16 00-0033 EA 10" Inlet Gasket - To Attach Leachate Transport Pipe .....	24.69	
02 62 16 00-0034 EA 12" Inlet Gasket - To Attach Leachate Transport Pipe .....	31.28	
02 62 16 00-0035 EA Additional Penetrations Into Manhole .....	197.24	
<b>02 62 16 00-0036 High Density Polyethylene Sumps (02 62 16 00-0017)</b>		
02 62 16 00-0037 EA 42" Diameter Riser Sump With 30" Or 22-1/2" Diameter Neck .....	1,879.03	
02 62 16 00-0038 EA 2" Riser Sump Extension - 22-1/2" Or 30" Diameter .....	753.77	
02 62 16 00-0039 EA 48" Sump Base .....	436.85	
02 62 16 00-0040 EA 30" Sump Cover .....	321.79	
02 62 16 00-0041 EA 22" Sump Cover .....	297.13	
02 62 16 00-0042 EA Riser Sump To Base Seal .....	297.13	
02 62 16 00-0043 EA Riser Sump To Extension Seal .....	237.96	
02 62 16 00-0044 EA 2" Conduit Grommet - Box Of 6 .....	514.12	
02 62 16 00-0045 EA 4" Conduit Grommet - Box Of 6 .....	636.87	
02 62 16 00-0046 EA 6" Conduit Grommet - Box Of 6 .....	754.27	
<b>02 62 16 00-0047 Leachate And Gas Collection Pipe (02 62 16 00-0001)</b>		
<b>02 62 16 00-0048 Slotted Polyvinyl Chloride (PVC) (02 62 16 00-0047)</b>		
Note: Number of rows of slots, slot spacing and slot width can vary to give required outside diameter intake area. Slot width and spacing varies.		
02 62 16 00-0049 LF 2" Diameter, Schedule 40, 2 To 3 Rows Of Slots .....	7.19	
02 62 16 00-0050 LF 4" Diameter, Schedule 40, 2 To 4 Rows Of Slots .....	10.70	
02 62 16 00-0051 LF 6" Diameter, Schedule 40, 2 To 6 Rows Of Slots .....	15.33	
02 62 16 00-0052 LF 8" Diameter, Schedule 40, 2 To 6 Rows Of Slots .....	24.07	
02 62 16 00-0053 LF 10" Diameter, Schedule 40, 2 To 8 Rows Of Slots .....	34.65	
02 62 16 00-0054 LF 12" Diameter, Schedule 40, 2 To 10 Rows Of Slots .....	50.09	
<b>02 62 16 00-0055 Sheet Drainage Systems (02 62 16)</b>		
Note: Made of 2 sets of parallel strands. Intersecting strands form two overlaid sets of continuous deep channels.		
<b>02 62 16 00-0056 Drainage Nets And Composites (02 62 16 00-0055)</b>		
<b>02 62 16 00-0057 Polyethylene Drainage Nets (02 62 16 00-0056)</b>		
02 62 16 00-0058 SF Drainage Net - 1/4" Thick High Density Polyethylene .....	0.54	
02 62 16 00-0059 SF Drainage Net With Geotextile Fabric Heat Bonded To One Side .....	1.79	
02 62 16 00-0060 SF Drainage Net With Geotextile Fabric Heat Bonded To Both Sides .....	2.09	
<b>02 62 16 00-0061 Gas Interception Networks (02 62 16)</b>		
<b>02 62 16 00-0062 Gas Treatment (02 62 16 00-0061)</b>		
<b>02 62 16 00-0063 Flares (02 62 16 00-0062)</b>		
Note: These are basic flare prices and exclude controls and auxiliary equipment. The basic price will be approximately 25% of the total cost of the unit complete with controls, auxiliary equipment, piping, setup, etc.		
02 62 16 00-0064 EA 2.25 Million BTU/Hour Landfill Flare .....	41,428.63	
02 62 16 00-0065 EA 7.5 Million BTU/Hour Landfill Flare .....	52,708.95	
02 62 16 00-0066 EA 10.5 Million BTU/Hour Landfill Flare .....	69,367.15	
02 62 16 00-0067 EA 22.5 Million BTU/Hour Landfill Flare .....	139,556.56	
02 62 16 00-0068 EA 30 Million BTU/Hour Landfill Flare .....	161,837.36	
02 62 16 00-0069 EA 36 Million BTU/Hour Landfill Flare .....	185,101.08	
<b>02 62 16 00-0070 Gas Scrubbers (02 62 16 00-0061)</b>		
<b>02 62 16 00-0071 Single Stage Gas Scrubbers (02 62 16 00-0070)</b>		
Note: Unit is flange to flange, carbon steel construction. Includes ecosphere packing (HDPE), mist eliminator section, internal spray nozzle, access doors and differential pressure gauge.		
02 62 16 00-0072 EA 1,500 CFM Fluidized Bed Gas Scrubber - Single Stage .....	34,658.37	
02 62 16 00-0073 EA 4,400 CFM Fluidized Bed Gas Scrubber - Single Stage .....	47,393.33	
02 62 16 00-0074 EA 5,800 CFM Fluidized Bed Gas Scrubber - Single Stage .....	50,417.28	
02 62 16 00-0075 EA 7,700 CFM Fluidized Bed Gas Scrubber - Single Stage .....	54,477.86	
02 62 16 00-0076 EA 9,600 CFM Fluidized Bed Gas Scrubber - Single Stage .....	59,186.49	
02 62 16 00-0077 EA 12,000 CFM Fluidized Bed Gas Scrubber - Single Stage .....	63,021.83	
02 62 16 00-0078 EA 17,000 CFM Fluidized Bed Gas Scrubber - Single Stage .....	68,300.07	
02 62 16 00-0079 EA 23,600 CFM Fluidized Bed Gas Scrubber - Single Stage .....	73,542.15	
02 62 16 00-0080 EA 30,200 CFM Fluidized Bed Gas Scrubber - Single Stage .....	78,294.07	
02 62 16 00-0081 EA 38,700 CFM Fluidized Bed Gas Scrubber - Single Stage .....	88,808.87	
02 62 16 00-0082 EA 47,200 CFM Fluidized Bed Gas Scrubber - Single Stage .....	100,840.69	
02 62 16 00-0083 EA 58,000 CFM Fluidized Bed Gas Scrubber - Single Stage .....	108,914.61	
02 62 16 00-0084 EA 79,700 CFM Fluidized Bed Gas Scrubber - Single Stage .....	124,130.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0085 EA 90,900 CFM Fluidized Bed Gas Scrubber - Single Stage .....	130,548.65	
02 62 16 00-0086 EA 113,300 CFM Fluidized Bed Gas Scrubber - Single Stage .....	140,830.83	
02 62 16 00-0087 EA 3,000 CFM Fluidized Bed Gas Scrubber - Single Stage .....	44,245.41	
<b>02 62 16 00-0088 Gas Collection</b> (02 62 16 00-0061)		
<b>02 62 16 00-0089 Vacuum Blowers</b> (02 62 16 00-0088)		
Note: Aluminum wheel with clean-out door, drain and plug. 60 Hertz, 230/460V, 3600 rpm, TEFC, 184T. As manufactured by New York Blower Fans.		
02 62 16 00-0090 EA 5 HP New York Blower, Pressure Blower Size 2204, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T .....	3,755.15	
For Silencer Option, Add	360.00	
02 62 16 00-0091 EA 5 HP New York Blower, Pressure Blower Size 2206, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T .....	3,765.90	
For Silencer Option, Add	386.00	
02 62 16 00-0092 EA 5 HP New York Blower, Pressure Blower Size 2606, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T .....	4,168.30	
For Silencer Option, Add	420.00	
<b>02 62 16 00-0093 Vacuum Blowers And Compressors</b> (02 62 16 00-0088)		
Note: Heavy duty rotary blowers packaged with silencer, filter, drive and motor. Unit is mounted and interconnected all on the same base.		
02 62 16 00-0094 EA Positive Displacement Blower, 4.9 Max. HP, 48 CFM .....	5,672.39	
02 62 16 00-0095 EA Positive Displacement Blower, 5.6 Max. HP, 111 CFM .....	6,221.79	
02 62 16 00-0096 EA Positive Displacement Blower, 12.2 Max. HP, 143 CFM .....	7,116.75	
02 62 16 00-0097 EA Positive Displacement Blower, 11.8 Max. HP, 271 CFM .....	7,432.29	
02 62 16 00-0098 EA Positive Displacement Blower, 15 Max. HP, 134 CFM .....	6,921.10	
02 62 16 00-0099 EA Positive Displacement Blower, 19.7 Max. HP, 278 CFM .....	7,959.91	
02 62 16 00-0100 EA Positive Displacement Blower, 18.3 Max. HP, 399 CFM .....	8,634.36	
02 62 16 00-0101 EA Positive Displacement Blower, 254 Max. HP, 247 CFM .....	9,707.68	
02 62 16 00-0102 EA Positive Displacement Blower, 28.3 Max. HP, 427 CFM .....	11,703.12	
02 62 16 00-0103 EA Positive Displacement Blower, 29 Max. HP, 665 CFM .....	11,902.00	
02 62 16 00-0104 EA Positive Displacement Blower, 38.8 Max. HP, 393 CFM .....	12,939.82	
02 62 16 00-0105 EA Positive Displacement Blower, 49.6 Max. HP, 615 CFM .....	16,756.46	
02 62 16 00-0106 EA Positive Displacement Blower, 46.5 Max. HP, 1,248 CFM .....	18,634.32	
02 62 16 00-0107 EA Positive Displacement Blower, 55 Max. HP, 574 CFM .....	19,360.83	
02 62 16 00-0108 EA Positive Displacement Blower, 67.1 Max. HP, 1,071 CFM .....	22,910.72	
02 62 16 00-0109 EA Positive Displacement Blower, 65.5 Max. HP, 1,878 CFM .....	25,954.01	
<b>02 62 16 00-0110 Fugitive Dust, Vapor And Gas Emissions Control</b> (02 62 16)		
<b>02 62 16 00-0111 Sprayed Dust Suppressants</b> (02 62 16 00-0110)		
Note: Overall dust suppression reflects treatment of unpaved haul roads and parking lots and similar surfaces. Overall erosion control reflects stabilizing road shoulders and slopes. Excludes water costs.		
02 62 16 00-0112 SY Overall Dust Suppression And Erosion Control, Tree Sap Based Sprayed Dust Suppressant .....	3.34	
02 62 16 00-0113 SY Erosion Control For Landfill Cap .....	3.50	
02 62 16 00-0114 SY Stockpile Dust Suppression Tree Sap Based Dust Suppressant .....	3.50	
02 62 16 00-0115 SY Periodic Maintenance Application Tree Sap Based Sprayed Dust Suppressant .....	3.17	
02 62 16 00-0116 SY Overall Dust Suppression And Erosion Control, Chloride Based Sprayed Dust Suppressant .....	3.39	
02 62 16 00-0117 SY Erosion Control For Landfill Cap Chloride Based Sprayed Dust Suppressant .....	3.73	
02 62 16 00-0118 SY Stockpile Dust Suppression, Chloride Based Sprayed Dust Suppressant .....	3.55	
02 62 16 00-0119 SY Periodic Maintenance Application Chloride Based Sprayed Dust Suppressant .....	3.21	
02 62 16 00-0120 SY Overall Dust Suppression And Erosion Control, Oil Emulsion Sprayed Dust Suppressant .....	3.63	
02 62 16 00-0121 SY Erosion Control For Landfill Cap .....	4.29	
02 62 16 00-0122 SY Stockpile Dust Suppression, Oil Emulsion Sprayed Dust Suppressant .....	3.94	
02 62 16 00-0123 SY Periodic Maintenance Application Oil Emulsion Sprayed Dust Suppressant .....	3.30	
02 62 16 00-0124 SY Overall Dust Suppression And Erosion Control, Asphalt Emulsion Sprayed Dust Suppressant .....	4.00	
02 62 16 00-0125 SY Erosion Control For Landfill Cap Asphalt Emulsion Sprayed Dust Suppressant .....	4.72	
02 62 16 00-0126 SY Stockpile Dust Suppression, Asphalt Emulsion Sprayed Dust Suppressant .....	4.34	
02 62 16 00-0127 SY Periodic Maintenance Application Asphalt Emulsion Sprayed Dust Suppressant .....	3.65	
02 62 16 00-0128 SY Overall Dust Suppression And Erosion Control, Lignosulphonate Sprayed Dust Suppressant .....	3.35	
02 62 16 00-0129 SY Erosion Control For Landfill Cap Lignosulphonate Sprayed Dust Suppressant .....	3.70	
02 62 16 00-0130 SY Stockpile Dust Suppression, Lignosulphonate Sprayed Dust Suppressant .....	3.52	
02 62 16 00-0131 SY Periodic Maintenance Application Lignosulphonate Sprayed Dust Suppressant .....	3.21	
<b>02 62 16 00-0132 Synthetic Covers Over Waste Piles</b> (02 62 16 00-0110)		
<b>02 62 16 00-0133 Plastic Waste Pile Covers</b> (02 62 16 00-0132)		
02 62 16 00-0134 SF Plastic Laminate Waste Pile Cover, 130 LB Tear Strength, 1 To 1-1/2 Year Outdoor Life Expectancy .....	0.23	
02 62 16 00-0135 SF Plastic Laminate Waste Pile Cover, 185 LB Tear Strength, 3 To 4 Year Outdoor Life Expectancy .....	0.54	
02 62 16 00-0136 SF Plastic Laminate Waste Pile Cover, 250 LB Tear Strength, 4 To 5 Year Outdoor Life Expectancy .....	0.71	
02 62 16 00-0137 LF Add For Cover Drawstring .....	0.82	
02 62 16 00-0138 EA Add For Metal Grommets Used With Tie-downs .....	0.85	
02 62 16 00-0139 SF Plastic Laminate Waste Pile Cover, 135 LB Tear Strength, 2 To 2-1/2 Year Outdoor Life Expectancy .....	0.32	

## 02 65 Underground Storage Tank Removal (02 60)

Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

74 19 00-0050 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.

02 65 00 00-0001	Monitoring, Sampling, Testing And Analysis (02 65)	
02 65 00 00-0002	Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)	
02 65 00 00-0003	EA Collection Of Sludge Sample For Underground Storage Tank.....	23.96
02 65 00 00-0004	EA Collection Of Pumpable Liquids Sample For Underground Storage Tank .....	23.96
02 65 00 00-0005	EA Collection Of Contaminated Soil Sample .....	23.96
02 65 00 00-0006	Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)	
	Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.	
02 65 00 00-0007	EA Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test.....	116.21
	Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.	
02 65 00 00-0008	EA Flashpoint, Lab Test.....	45.19
	Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.	
02 65 00 00-0009	EA TOX 9020, Lab Test.....	108.71
	Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.	
02 65 00 00-0010	EA TPH 8015 Modified, Lab Test .....	116.21
	Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.	
02 65 00 00-0011	EA TRPH 418.1, Lab Test .....	90.38
	Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.	
02 65 00 00-0012	EA VOC, Lab Test .....	245.33
	Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	
02 65 00 00-0013	EA Semi-Volatile Organic, Lab Test.....	451.92
	Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	
02 65 00 00-0014	EA Oil And Grease 413.1, Lab Test.....	54.36
	Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	
02 65 00 00-0015	EA TCLP (Extraction) - Metals, Lab Test.....	96.84
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0016	EA TCLP (Extraction) - Semi-Volatile Organic, Lab Test.....	129.12
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0017	EA Metals 6010 RCRA, Lab Test .....	144.61
	Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	
02 65 00 00-0018	EA Metals (Arsenic) 7060, Lab Test .....	19.37
	Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	
02 65 00 00-0019	EA Metals (Selenium) 7740, Lab Test .....	19.37
	Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	
02 65 00 00-0020	EA Metals (Lead) 7421, Lab Test .....	19.37
	Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	
02 65 00 00-0021	EA Metals (Mercury) 7470, Lab Test .....	36.15
	Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	
02 65 00 00-0022	EA PNA/PAH 8100, Lab Test .....	206.59
	Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	
02 65 00 00-0023	EA Fuel Id ASTM D3328-78, Lab Test.....	74.74
	Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	
02 65 00 00-0024	EA pH, Lab Test.....	15.49
02 65 00 00-0025	EA Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater .....	193.68
02 65 00 00-0026	EA Methyl Tertiary Butyl Ether (MTBE), Lab Test.....	116.21
02 65 00 00-0027	Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)	
02 65 00 00-0028	EA Site Survey For AST/UST Location By Certified Tank Installer.....	1,008.64
	Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	
02 65 00 00-0029	EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems.....	157.37
	Note: By Certified Technician. Write report of findings for action if needed	
02 65 00 00-0030	EA Check And Report On Monitor Probes.....	37.25
	Note: By Certified Technician	
02 65 00 00-0031	EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report.....	272.93
	Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	
02 65 00 00-0032	EA Removal And Replacement Of Anode On Impressed System .....	110.32
02 65 00 00-0033	EA Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank.....	159.54
02 65 00 00-0034	EA Removal And Replacement Of Monitor Probes On Underground Storage Tank .....	232.30
02 65 00 00-0035	EA Ultrasonic Test On Underground Storage Tank .....	77.26
02 65 00 00-0036	Tests And Sampling Labor Hours (02 65 00 00-0001)	
02 65 00 00-0037	HR Certified Tank Installer For Underground Storage Tank.....	96.79
02 65 00 00-0038	HR Certified Geologist/Environmentalist .....	115.65



		<b>Existing Conditions</b>	<b>02</b>
		<b>Contaminated Site Material Removal</b>	<b>02 60</b>
		<b>Underground Storage Tank Removal</b>	<b>02 65</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0039 HR Hourly Office Work For Reports Required For EPA On Underground Storage Tank .....120.66 Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.		
<b>02 65 00 00-0040 Remove Tank Contents (02 65)</b>		
02 65 00 00-0041 <b>Transfer Liquid (02 65 00 00-0040)</b> Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042 GAL Transfer Reusable Liquid To Different Tank .....0.57 Note: Per gallon of material transferred.		
<b>02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)</b>		
02 65 00 00-0044 GAL Removal and Disposal Of Hazardous Liquids From Tank.....1.30		
02 65 00 00-0045 GAL Removal and Disposal Of Non Hazardous Liquid From Tank.....0.91		
<b>02 65 00 00-0046 Sludge (02 65 00 00-0040)</b> Note: Includes scraping and solidifying agent.		
02 65 00 00-0047 GAL Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....5.37		
02 65 00 00-0048 GAL Removal and Disposal Of Non Hazardous Solids Or Sludge From Tank.....1.22		
<b>02 65 00 00-0049 Purge Vapors, Open And Clean Tank (02 65)</b>		
02 65 00 00-0050 <b>Purge Vapors (02 65 00 00-0049)</b>		
02 65 00 00-0051 LB Purge Tank Using Dry Ice.....3.03 Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.		
<b>02 65 00 00-0052 High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049)</b> Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053 EA Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....253.50		
02 65 00 00-0054 EA >275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....333.60		
02 65 00 00-0055 EA >550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....434.42		
02 65 00 00-0056 EA >1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....591.44		
02 65 00 00-0057 EA >2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....1,152.60		
02 65 00 00-0058 EA >5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....1,385.89		
02 65 00 00-0059 EA >6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....1,595.84		
02 65 00 00-0060 EA >8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....1,930.66		
02 65 00 00-0061 EA >10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....2,500.65		
02 65 00 00-0062 EA >15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....3,006.32		
02 65 00 00-0063 EA >20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....3,816.54		
02 65 00 00-0064 EA >30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....4,692.84		
02 65 00 00-0065 EA >40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....5,728.53		
<b>02 65 00 00-0066 Scrape Clean Tank Exterior (02 65 00 00-0049)</b>		
02 65 00 00-0067 EA Up To 275 Gallon Tank, Scrape Clean Tank Exterior .....201.43		
02 65 00 00-0068 EA >275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....268.23		
02 65 00 00-0069 EA >550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....351.47		
02 65 00 00-0070 EA >1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....486.71		
02 65 00 00-0071 EA >2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....1,077.83		
02 65 00 00-0072 EA >5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior.....1,364.77		
02 65 00 00-0073 EA >6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior.....1,597.02		
02 65 00 00-0074 EA >8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior.....2,007.68		
02 65 00 00-0075 EA >10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior.....2,609.49		
02 65 00 00-0076 EA >15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior.....3,275.42		
02 65 00 00-0077 EA >20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior.....4,264.88		
02 65 00 00-0078 EA >30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior.....5,117.85		
02 65 00 00-0079 EA >40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior.....6,397.32		
<b>02 65 00 00-0080 Tank And Piping Removal (02 65)</b> Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
<b>02 65 00 00-0081 Removal And Disposal Of Piping (02 65 00 00-0080)</b> Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082 LF Up To 4", Removal And Disposal Of Piping .....15.88		
02 65 00 00-0083 LF >4" To 8", Removal And Disposal Of Piping .....21.17		
<b>02 65 00 00-0084 Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080)</b> Note: Excludes excavation or backfill.		
02 65 00 00-0085 EA Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....551.73		
02 65 00 00-0086 EA >275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....669.96		
02 65 00 00-0087 EA >550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....788.20		
02 65 00 00-0088 EA >1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....985.25		
02 65 00 00-0089 EA >2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....1,379.34		

<b>02</b>	<b>Existing Conditions</b>
<b>02 60</b>	<b>Contaminated Site Material Removal</b>
<b>02 65</b>	<b>Underground Storage Tank Removal</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 65 00 00-0090	EA	>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	1,734.02
02 65 00 00-0091	EA	>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	1,970.48
02 65 00 00-0092	EA	>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	2,364.58
02 65 00 00-0093	EA	>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	3,152.76
02 65 00 00-0094	EA	>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	3,779.47
02 65 00 00-0095	EA	>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	4,428.77
02 65 00 00-0096	EA	>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	5,181.27
02 65 00 00-0097	EA	>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....	6,476.58

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

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

02 65 00 00-0099	EA	>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	662.21
02 65 00 00-0100	EA	>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	1,234.95
02 65 00 00-0101	EA	>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	1,485.52
02 65 00 00-0102	EA	>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	1,655.55
02 65 00 00-0103	EA	>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	1,986.65
02 65 00 00-0104	EA	>10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	2,469.90
02 65 00 00-0105	EA	>15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	2,971.03
02 65 00 00-0106	EA	>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	3,713.80
02 65 00 00-0107	EA	>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	4,642.24
02 65 00 00-0108	EA	>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of .....	5,802.81

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

Note: Includes disposal fee.

02 65 00 00-0110	EA	Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	248.90
		For Each Additional Mile >15 Miles, Add	3.67
02 65 00 00-0111	EA	>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	338.55
		For Each Additional Mile >15 Miles, Add	4.64
02 65 00 00-0112	EA	>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	533.33
		For Each Additional Mile >15 Miles, Add	6.96
02 65 00 00-0113	EA	>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	834.68
		For Each Additional Mile >15 Miles, Add	8.12
02 65 00 00-0114	EA	>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	1,473.06
		For Each Additional Mile >15 Miles, Add	14.31
02 65 00 00-0115	EA	>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	1,519.45
		For Each Additional Mile >15 Miles, Add	15.47
02 65 00 00-0116	EA	>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	1,596.78
		For Each Additional Mile >15 Miles, Add	17.40
02 65 00 00-0117	EA	>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	2,321.67
		For Each Additional Mile >15 Miles, Add	23.20
02 65 00 00-0118	EA	>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	3,176.56
		For Each Additional Mile >15 Miles, Add	34.80
02 65 00 00-0119	EA	>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	3,722.16
		For Each Additional Mile >15 Miles, Add	38.66
02 65 00 00-0120	EA	>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	4,609.35
		For Each Additional Mile >15 Miles, Add	46.40
02 65 00 00-0121	EA	>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	6,476.27
		For Each Additional Mile >15 Miles, Add	55.68
02 65 00 00-0122	EA	>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station .....	7,830.14
		For Each Additional Mile >15 Miles, Add	64.03

**02 65 00 00-0123**      **Other Storage Tank Removals** (02 65 00 00-0080)

02 65 00 00-0124	GAL	Removal Of Cement Lining .....	0.48
02 65 00 00-0125	GAL	Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams .....	0.17
02 65 00 00-0126	GAL	Install Epoxy For Interior Corrosion Protection .....	0.94

**02 65 00 00-0127**      **Tank Closure Report** (02 65 00 00-0080)

Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.

02 65 00 00-0128	EA	Prepare Tank Closure Report .....	2,521.61
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**02 65 00 00-0129**      **Temporary Tanks** (02 65)

**02 65 00 00-0130**      **Temporary Holding Tanks** (02 65 00 00-0129)

**02 65 00 00-0131**      **Above Ground Temporary Holding Tanks, Monthly Rental** (02 65 00 00-0130)

02 65 00 00-0132	MO	550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental .....	537.29
02 65 00 00-0133	MO	630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental .....	537.29
02 65 00 00-0134	MO	630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental .....	1,074.58
02 65 00 00-0135	MO	4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental .....	805.93
02 65 00 00-0136	MO	4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental .....	1,880.51
02 65 00 00-0137	MO	6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental .....	1,343.22
02 65 00 00-0138	MO	21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental .....	3,108.05
02 65 00 00-0139	MO	21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental .....	3,724.72
02 65 00 00-0140	MO	21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental .....	6,290.09





<b>Existing Conditions</b>		<b>02</b>
<b>Contaminated Site Material Removal</b>		<b>02 60</b>
<b>Underground Storage Tank Removal</b>		<b>02 65</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>02 65 00 00-0141</b>	<b>Secondary Containment Berm</b> <small>(02 65 00 00-0129)</small>	
02 65 00 00-0142	MO Secondary Containment Berm Monthly Rental .....	1,164.13

**02 80 Facility Remediation** (02)

**02 81 Transportation And Disposal Of Hazardous Materials** (02 80)

**02 81 00 00-0001 Hazardous Material Disposal** (02 81)

02 81 00 00-0002	EA RCRA (Direct Landfill) Drums .....	284.86
	Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).	
02 81 00 00-0003	EA Stabilization (>5 ppm) .....	379.59
02 81 00 00-0004	TON Bulk Hazardous Material Landfill Cost .....	240.31

**02 81 00 00-0005 Equipment Oil Drain And Disposal** (02 81)

02 81 00 00-0006	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site .....	378.04
	Note: Excludes Disposal Cost.	
02 81 00 00-0007	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum .....	59.41
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0008	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum .....	270.02
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0009	DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum .....	486.04
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0010	CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site .....	64.70
	Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	

**02 82 Asbestos Remediation** (02 80)

Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

**02 82 13 Asbestos Abatement** (02 82)

**02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing** (02 82 13)

	Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.	
02 82 13 00-0002	HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring .....	65.75
02 82 13 00-0003	EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	35.10
02 82 13 00-0004	EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	41.15
02 82 13 00-0005	EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	65.36
02 82 13 00-0006	EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing .....	112.56
02 82 13 00-0007	EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing .....	136.76
02 82 13 00-0008	EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing .....	27.84
02 82 13 00-0009	EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing .....	33.89
02 82 13 00-0010	EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing .....	45.99
02 82 13 00-0011	EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test .....	35.10
02 82 13 00-0012	EA Next Day Turnaround, (Air Point Counting) PLM Test .....	41.15
02 82 13 00-0013	EA Same Day Turnaround, (Air Point Counting) PLM Test .....	65.36
02 82 13 00-0014	EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing .....	112.56
02 82 13 00-0015	EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing .....	129.50
02 82 13 00-0016	EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing .....	180.33

**02 82 16 Engineering Control of Asbestos Containing Materials** (02 82)

**02 82 16 00-0001 Asbestos Encapsulation (Lock-Down)** (02 82 16)

02 82 16 00-0002	SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat .....	1.21
02 82 16 00-0003	SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound) .....	1.62
02 82 16 00-0004	SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®) .....	1.67
02 82 16 00-0005	SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®) .....	1.90
02 82 16 00-0006	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®) .....	5.38
02 82 16 00-0007	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®) .....	6.02

**02 82 33 Removal and Disposal of Asbestos Containing Materials** (02 82)

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 82 33 00-0001	Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0002	Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)	
	Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.	
02 82 33 00-0003	Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)	
	See CSI section 02 82 33 00-0017 for projects with less than 10 LF.	
02 82 33 00-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	550.70
	For Work In Restricted Working Space, Add	163.01
02 82 33 00-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	28.16
	For Work In Restricted Working Space, Add	8.34
02 82 33 00-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	21.21
	For Work In Restricted Working Space, Add	6.25
02 82 33 00-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	16.00
	For Work In Restricted Working Space, Add	4.69
02 82 33 00-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	12.09
	For Work In Restricted Working Space, Add	3.52
02 82 33 00-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	10.56
	For Work In Restricted Working Space, Add	3.06
02 82 33 00-0010	>6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)	
	See CSI section 02 82 33 00-0017 for projects with less than 10 LF.	
02 82 33 00-0011	SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	572.65
	For Work In Restricted Working Space, Add	163.01
02 82 33 00-0012	LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	33.42
	For Work In Restricted Working Space, Add	9.59
02 82 33 00-0013	LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	25.42
	For Work In Restricted Working Space, Add	7.19
02 82 33 00-0014	LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.43
	For Work In Restricted Working Space, Add	5.39
02 82 33 00-0015	LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	14.93
	For Work In Restricted Working Space, Add	4.04
02 82 33 00-0016	LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	13.18
	For Work In Restricted Working Space, Add	3.52
02 82 33 00-0017	Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)	
	Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.	
02 82 33 00-0018	SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	398.93
	For Work In Restricted Working Space, Add	118.36
02 82 33 00-0019	LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation	89.13
	For Work In Restricted Working Space, Add	26.30
02 82 33 00-0020	LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation	35.49
	For Work In Restricted Working Space, Add	10.21
02 82 33 00-0021	LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation	26.98
	For Work In Restricted Working Space, Add	7.66
02 82 33 00-0022	LF >500 LF Additional Glove Bag Work for Pipe Insulation	20.60
	For Work In Restricted Working Space, Add	5.74
02 82 33 00-0023	Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0024	Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)	
02 82 33 00-0025	SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	550.70
02 82 33 00-0026	SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	33.94
02 82 33 00-0027	SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	28.04
02 82 33 00-0028	SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	22.57
02 82 33 00-0029	SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	18.46
02 82 33 00-0030	Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)	
02 82 33 00-0031	SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	547.04
02 82 33 00-0032	SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	29.79
02 82 33 00-0033	SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	23.88
02 82 33 00-0034	SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	18.41
02 82 33 00-0035	SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	14.30
02 82 33 00-0036	Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)	
02 82 33 00-0037	SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	545.82
02 82 33 00-0038	SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	26.40
02 82 33 00-0039	SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	20.49
02 82 33 00-0040	SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	15.02
02 82 33 00-0041	SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	10.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 82 33 00-0042</b> Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal <small>(02 82 33 00-0023)</small> Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal .....	552.53	
02 82 33 00-0044 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal .....	28.16	
02 82 33 00-0045 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal .....	22.26	
02 82 33 00-0046 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal .....	16.78	
02 82 33 00-0047 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal .....	12.68	
<b>02 82 33 00-0048</b> Surfacing Material, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
<b>02 82 33 00-0049</b> Fireproofing For Small Areas, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small> Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal .....	136.22	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
<b>02 82 33 00-0051</b> Fireproofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small> Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal .....	552.53	
02 82 33 00-0053 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal .....	33.71	
02 82 33 00-0054 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal .....	25.37	
02 82 33 00-0055 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal .....	19.12	
02 82 33 00-0056 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal .....	14.43	
<b>02 82 33 00-0057</b> Acoustical Plaster, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small> Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	549.48	
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	14.16	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	10.77	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	8.05	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	6.01	
<b>02 82 33 00-0063</b> Plywood, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
02 82 33 00-0064 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal .....	553.14	
02 82 33 00-0065 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal .....	11.79	
02 82 33 00-0066 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal .....	5.80	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal .....	3.99	
02 82 33 00-0068 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal .....	3.44	
<b>02 82 33 00-0069</b> Asbestos-Cement Products, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
<b>02 82 33 00-0070</b> Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0071 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	555.57	
02 82 33 00-0072 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	4.94	
02 82 33 00-0073 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	2.59	
02 82 33 00-0074 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	2.10	
02 82 33 00-0075 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	1.84	
<b>02 82 33 00-0076</b> Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0077 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	422.18	
02 82 33 00-0078 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	29.25	
02 82 33 00-0079 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	22.30	
02 82 33 00-0080 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	17.09	
02 82 33 00-0081 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	13.18	
02 82 33 00-0082 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	10.25	
02 82 33 00-0083 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	10.05	
<b>02 82 33 00-0084</b> Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0085 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	564.05	
Note: Single or first of multiple layers.		
02 82 33 00-0086 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	4.46	
Note: Single or first of multiple layers.		
02 82 33 00-0087 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	3.60	
Note: Single or first of multiple layers.		
02 82 33 00-0088 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	2.90	
Note: Single or first of multiple layers.		
02 82 33 00-0089 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	2.21	
Note: Single or first of multiple layers.		
02 82 33 00-0090 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	1.68	
Note: Single or first of multiple layers.		

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 82 33 00-0091	Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0092	Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0091)		
02 82 33 00-0093	SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	558.02	163.01
02 82 33 00-0094	CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	55.49	16.21
02 82 33 00-0095	CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	37.47	10.80
02 82 33 00-0096	CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	28.51	8.12
02 82 33 00-0097	CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	23.07	6.48
02 82 33 00-0098	CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	19.83	5.51
02 82 33 00-0099	CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal ..... <i>For Work In Restricted Working Space, Add</i>	17.99	4.96
02 82 33 00-0100	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0091)		
02 82 33 00-0101	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	435.64	
02 82 33 00-0102	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	55.65	
02 82 33 00-0103	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	39.45	
02 82 33 00-0104	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	31.38	
02 82 33 00-0105	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	26.48	
02 82 33 00-0106	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	23.56	
02 82 33 00-0107	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	21.90	
02 82 33 00-0108	Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0109	30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0108)		
02 82 33 00-0110	SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	278.28	
02 82 33 00-0111	EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	104.40	
02 82 33 00-0112	EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	94.62	
02 82 33 00-0113	Grout, Asbestos Abatement And Disposal (02 82 33 00-0108)		
	Note: e.g. flue grout.		
02 82 33 00-0114	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal .....	271.89	
02 82 33 00-0115	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal .....	10.71	
02 82 33 00-0116	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal .....	7.39	
02 82 33 00-0117	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal .....	6.33	
02 82 33 00-0118	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal .....	5.44	
02 82 33 00-0119	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal .....	4.69	
02 82 33 00-0120	LF >2,500 LF, Grout, Asbestos Abatement And Disposal .....	4.02	
02 82 33 00-0121	Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0108)		
	Note: e.g. rope, web cloth, flat.		
02 82 33 00-0122	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal .....	271.99	
02 82 33 00-0123	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal .....	14.43	
02 82 33 00-0124	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal .....	10.84	
02 82 33 00-0125	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal .....	9.24	
02 82 33 00-0126	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal .....	8.32	
02 82 33 00-0127	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	7.47	
02 82 33 00-0128	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	7.11	
02 82 33 00-0129	Caulking, Asbestos Abatement And Disposal (02 82 33 00-0108)		
02 82 33 00-0130	Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0129)		
02 82 33 00-0131	SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	271.89	
02 82 33 00-0132	LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	8.04	
02 82 33 00-0133	LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	5.67	
02 82 33 00-0134	LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	4.22	
02 82 33 00-0135	LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	3.17	
02 82 33 00-0136	LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	2.52	
02 82 33 00-0137	LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal .....	2.19	
02 82 33 00-0138	Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0108)		



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>	
<b>Asbestos Remediation</b>	<b>02 82</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0139 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal .....	271.89	
02 82 33 00-0140 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal .....	10.71	
02 82 33 00-0141 LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal .....	7.39	
02 82 33 00-0142 LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal .....	6.33	
02 82 33 00-0143 LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal .....	5.44	
02 82 33 00-0144 LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal .....	4.69	

**02 83 Lead Remediation** (02 80)

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

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

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

Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies.

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

02 83 19 13-0002 EA Lead-Based Paint Remediation Minimum Show Up Charge .....	875.02
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Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.

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

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

02 83 19 13-0004 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring .....	73.04
02 83 19 13-0005 EA X-Ray Fluorescence (XRF) Lead Testing .....	41.72
Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0006 EA 5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	39.94
02 83 19 13-0007 EA 48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	60.52
02 83 19 13-0008 EA 24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	84.72
02 83 19 13-0009 EA 5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	15.73
02 83 19 13-0010 EA 24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	24.21
02 83 19 13-0011 EA 8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	30.26
02 83 19 13-0012 EA 5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....	39.94
02 83 19 13-0013 EA 3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....	60.52
02 83 19 13-0014 EA 5 Day Turnaround Lead Wipe Samples And Lab Fee .....	6.66
02 83 19 13-0015 EA 24 Hour Turnaround Lead Wipe Samples And Lab Fee .....	9.08
02 83 19 13-0016 EA 8 Hour Turnaround Lead Wipe Samples And Lab Fee .....	13.31
02 83 19 13-0017 EA 5 Day Turnaround Lead Air Samples And Lab Fee .....	6.66
02 83 19 13-0018 EA 24 Hour Turnaround Lead Air Samples And Lab Fee .....	9.08
02 83 19 13-0019 EA 8 Hour Turnaround Lead Air Samples And Lab Fee .....	13.31
02 83 19 13-0020 EA 5 Day Turnaround Lead Water Test and Lab Fee .....	24.21
02 83 19 13-0021 EA 24 Hour Turnaround Lead Water Test and Lab Fee .....	36.31
02 83 19 13-0022 EA 8 Hour Turnaround Lead Water Test and Lab Fee .....	48.41
02 83 19 13-0023 EA 5 Day Turnaround Lead Paint Chip Test and Lab Fee .....	25.03
02 83 19 13-0024 EA 5 Day Turnaround Lead Soil Test and Lab Fee .....	50.07

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

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

02 83 19 13-0026 SF Balustrades, Chemical Stripping Of Lead Contaminated Material .....	28.15
For 0.025" (25 mil) Application, Add	
	1.63
For 0.03" (30 mil) Application, Add	
	2.57
02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material .....	41.67
For 0.025" (25 mil) Application, Add	
	2.30
For 0.03" (30 mil) Application, Add	
	3.59
02 83 19 13-0028 SF Wood Floors, Chemical Stripping Of Lead Contaminated Material .....	6.76
For 0.025" (25 mil) Application, Add	
	0.51
For 0.03" (30 mil) Application, Add	
	0.88
02 83 19 13-0029 SF HVAC Grilles, Chemical Stripping Of Lead Contaminated Material .....	25.14
For 0.025" (25 mil) Application, Add	
	1.43
For 0.03" (30 mil) Application, Add	
	2.26
02 83 19 13-0030 SF HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material .....	29.95
For 0.025" (25 mil) Application, Add	
	1.67
For 0.03" (30 mil) Application, Add	
	2.62
02 83 19 13-0031 EA Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material .....	19.48
For 0.025" (25 mil) Application, Add	
	1.24
For 0.03" (30 mil) Application, Add	
	2.02
For 0.125" (125 mil) Application, Add	
	12.73
02 83 19 13-0032 LF >2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	8.74
For 0.025" (25 mil) Application, Add	
	0.57
For 0.03" (30 mil) Application, Add	
	0.94
For 0.125" (125 mil) Application, Add	
	6.15



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0033 LF >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	15.63	
For 0.025" (25 mil) Application, Add	1.00	
For 0.03" (30 mil) Application, Add	1.64	
For 0.125" (125 mil) Application, Add	10.45	
02 83 19 13-0034 LF >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	21.39	
For 0.025" (25 mil) Application, Add	1.33	
For 0.03" (30 mil) Application, Add	2.16	
For 0.125" (125 mil) Application, Add	13.21	
02 83 19 13-0035 LF >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	38.31	
For 0.025" (25 mil) Application, Add	2.31	
For 0.03" (30 mil) Application, Add	3.71	
For 0.125" (125 mil) Application, Add	21.40	
02 83 19 13-0036 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area .....	11.42	
For 0.025" (25 mil) Application, Add	0.67	
For 0.03" (30 mil) Application, Add	1.06	
For 0.125" (125 mil) Application, Add	5.68	
02 83 19 13-0037 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material .....	226.83	
For 0.025" (25 mil) Application, Add	12.61	
For 0.03" (30 mil) Application, Add	19.71	
02 83 19 13-0038 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material .....	8.83	
For 0.025" (25 mil) Application, Add	0.62	
For 0.03" (30 mil) Application, Add	1.04	
For 0.125" (125 mil) Application, Add	7.49	
02 83 19 13-0039 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material .....	10.01	
For 0.025" (25 mil) Application, Add	0.68	
For 0.03" (30 mil) Application, Add	1.12	
For 0.125" (125 mil) Application, Add	7.78	
02 83 19 13-0040 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material .....	9.98	
For 0.025" (25 mil) Application, Add	0.68	
For 0.03" (30 mil) Application, Add	1.12	
For 0.125" (125 mil) Application, Add	7.78	
02 83 19 13-0041 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material .....	45.58	
For 0.025" (25 mil) Application, Add	2.63	
For 0.03" (30 mil) Application, Add	4.16	
For 0.125" (125 mil) Application, Add	21.90	
02 83 19 13-0042 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material .....	7.97	
For 0.025" (25 mil) Application, Add	0.53	
For 0.03" (30 mil) Application, Add	0.88	
For 0.125" (125 mil) Application, Add	5.95	
02 83 19 13-0043 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material .....	23.23	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.42	
For 0.03" (30 mil) Application, Add	2.30	
For 0.125" (125 mil) Application, Add	13.67	
02 83 19 13-0044 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material .....	25.35	
For 0.025" (25 mil) Application, Add	1.49	
For 0.03" (30 mil) Application, Add	2.36	
For 0.125" (125 mil) Application, Add	12.88	
<b>02 83 19 13-0045 Demolish Lead Contaminated Material</b> <small>(02 83 19 13)</small>		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0046 SF Demolish Brick, Lead Contaminated Material .....	3.47	
02 83 19 13-0047 SF Demolish Concrete Block, Lead Contaminated Material .....	4.47	
02 83 19 13-0048 SF Demolish Up To 6" Concrete, Lead Contaminated Material .....	5.07	
02 83 19 13-0049 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	3.91	
02 83 19 13-0050 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	5.21	
02 83 19 13-0051 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material .....	5.77	
02 83 19 13-0052 SF Demolish Concrete, Lead Contaminated Material .....	11.47	
02 83 19 13-0053 LF Demolish Cabinets, Lead Contaminated Material .....	26.72	
02 83 19 13-0054 SF Demolish Grilles, Lead Contaminated Material .....	3.22	
02 83 19 13-0055 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material .....	13.90	
02 83 19 13-0056 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material .....	5.70	
02 83 19 13-0057 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material .....	8.31	
02 83 19 13-0058 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material .....	12.56	
02 83 19 13-0059 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material .....	23.16	
02 83 19 13-0060 EA Demolish Radiators, Lead Contaminated Material .....	100.06	
02 83 19 13-0061 SF Demolish Siding, Lead Contaminated Material .....	1.55	
02 83 19 13-0062 SF Demolish Flat Steel Surfaces, Lead Contaminated Material .....	3.61	
02 83 19 13-0063 SF Demolish Steel Beams, Lead Contaminated Material .....	4.24	
02 83 19 13-0064 SF Demolish Trusses, Lead Contaminated Material .....	5.57	
02 83 19 13-0065 SF Demolish Metal Stair, Lead Contaminated Material .....	6.63	
02 83 19 13-0066 LF Demolish Single Metal Hand Rail, Lead Contaminated Material .....	4.87	
02 83 19 13-0067 LF Demolish Metal Railing And Posts, Lead Contaminated Material .....	7.95	
02 83 19 13-0068 SF Demolish Metal Picket Fence, Lead Contaminated Material .....	2.18	
02 83 19 13-0069 SF Demolish Plywood, Lead Contaminated Material .....	5.99	
02 83 19 13-0070 SF Demolish Planks (Various Sizes), Lead Contaminated Material .....	2.93	
02 83 19 13-0071 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material .....	18.26	
02 83 19 13-0072 LF Demolish Metal Guard Rails, Lead Contaminated Material .....	10.95	

**02 83 19 13-0073 Wet Sanding Of Lead Contaminated Material** (02 83 19 13)



<b>Existing Conditions</b>		<b>02</b>
<b>Facility Remediation</b>		<b>02 80</b>
<b>Lead Remediation</b>		<b>02 83</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0074 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint.....	1.58	
<b>02 83 19 13-0075 Lead Abatement Encapsulation (02 83 19 13)</b>		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0076 SF Balustrades, Lead Abatement Encapsulation .....	4.90	
02 83 19 13-0077 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation .....	3.11	
02 83 19 13-0078 SF Columns, Lead Abatement Encapsulation .....	3.79	
02 83 19 13-0079 SF Picket Fence (Brush), Lead Abatement Encapsulation .....	2.21	
02 83 19 13-0080 SF Wood Floors (Roller), Lead Abatement Encapsulation .....	1.82	
02 83 19 13-0081 SF Grilles, Vents, Lead Abatement Encapsulation .....	5.30	
02 83 19 13-0082 EA Hangers, Lead Abatement Encapsulation .....	42.76	
02 83 19 13-0083 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	2.98	
02 83 19 13-0084 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	4.21	
02 83 19 13-0085 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	6.48	
02 83 19 13-0086 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	9.55	
02 83 19 13-0087 SF Siding, Lead Abatement Encapsulation .....	2.66	
02 83 19 13-0088 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.11	
02 83 19 13-0089 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.10	
02 83 19 13-0090 SF Trusses, Lead Abatement Encapsulation.....	4.10	
<b>02 83 33 Removal and Disposal of Material Containing Lead (02 83)</b>		
<b>02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)</b>		
<b>02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)</b>		
02 83 33 13-0002 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent .....	0.24	
02 83 33 13-0003 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.27	
02 83 33 13-0004 SF High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.15	
<b>02 86 Hazardous Waste Drum Handling (02 86)</b>		
<b>02 86 00 00-0001 Hazardous Waste Packaging (02 86)</b>		
<b>02 86 00 00-0002 Overpacks (02 86 00 00-0001)</b>		
<b>02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)</b>		
02 86 00 00-0004 EA 110 Gallon, 30" Diameter X 41" High .....	304.64	
02 86 00 00-0005 EA 85 Gallon, 26" Diameter X 38" High .....	173.41	
02 86 00 00-0006 EA 83 Gallon, 26" Diameter X 36" High .....	167.37	
02 86 00 00-0007 EA 55 Gallon, DOT 17C, 18" Diameter X 34" High .....	104.71	
02 86 00 00-0008 EA 30 Gallon, DOT 17C, 18" Diameter X 28" High .....	82.49	
02 86 00 00-0009 EA 22 Gallon, 16" Diameter X 25" High .....	55.57	
02 86 00 00-0010 EA 15 Gallon, DOT 17C, 14" Diameter X 24" High .....	50.25	
02 86 00 00-0011 EA 10 Gallon, 13.8" Diameter X 15" High .....	44.28	
<b>02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)</b>		
02 86 00 00-0013 EA 95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High .....	344.11	
02 86 00 00-0014 EA 20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High .....	63.59	
02 86 00 00-0015 EA 85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High.....	311.37	
<b>02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)</b>		
02 86 00 00-0017 EA 55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums .....	168.97	
02 86 00 00-0018 EA 55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums .....	231.87	
02 86 00 00-0019 EA 85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums.....	314.50	
<b>02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)</b>		
02 86 00 00-0021 EA 32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	14.25	
02 86 00 00-0022 EA 950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	15.03	
02 86 00 00-0023 EA 500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	14.70	
02 86 00 00-0024 EA 250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	7.28	
02 86 00 00-0025 EA Can, Carton, Insert, Tape - Corrosive And Flammable - UPS.....	9.05	
02 86 00 00-0026 EA 16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	6.32	
02 86 00 00-0027 EA 32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS .....	8.22	
<b>02 86 00 00-0028 Steel Drums (02 86 00 00-0001)</b>		
<b>02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)</b>		
02 86 00 00-0030 EA UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum .....	105.79	
02 86 00 00-0031 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49) .....	941.24	
02 86 00 00-0032 EA 8 Gallon, 17C, Open, Steel Drum .....	56.73	
02 86 00 00-0033 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24) .....	759.53	
02 86 00 00-0034 EA 55 Gallon Reconditioned Steel 17h Drum (50+) .....	55.50	

**02 Existing Conditions****02 80 Facility Remediation****02 86 Hazardous Waste Drum Handling**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	745.24
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,090.29
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	892.24
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	99.99
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	81.08
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9)	986.16
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,069.87
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	671.73
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	963.70
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	63.89
02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24)	967.79
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	632.94
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	608.44
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	1,029.04
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49)	871.83
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum	74.07
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+)	826.91
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum	62.96
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	1,004.54
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	581.90
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	561.48
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	986.16
02 86 00 00-0057	EA	30 Gallon, 17E, Open, Steel Drum	45.67
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9)	81.40
02 86 00 00-0059	EA	20 Gallon, 17C, Open, Steel Drum	64.19
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	888.16
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9)	1,063.75
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24)	72.15
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49)	62.90
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9)	777.91
02 86 00 00-0065	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24)	1,043.33
02 86 00 00-0066	EA	20 Gallon, 17E, Open, Steel Drum	43.21

**02 86 00 00-0067 Plastic Drums (02 86 00 00-0001)****02 86 00 00-0068 Polyethylene Closed Head Drums (02 86 00 00-0067)**

Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.

02 86 00 00-0069	EA	55 Gallon Polyethylene Closed Head Drums	66.41
02 86 00 00-0070	EA	35 Gallon Polyethylene Closed Head Drums	50.98
02 86 00 00-0071	EA	30 Gallon Polyethylene Closed Head Drums	46.29
02 86 00 00-0072	EA	20 Gallon Polyethylene Closed Head Drums	32.34
02 86 00 00-0073	EA	15 Gallon Polyethylene Closed Head Drums	31.73

**02 86 00 00-0074 Polyethylene Open Head Drums (02 86 00 00-0067)**

Note: Open head drums are primarily used for solids and sludge.

02 86 00 00-0075	EA	55 Gallon Polyethylene Open Head Drums	83.94
02 86 00 00-0076	EA	35 Gallon Polyethylene Open Head Drums	61.72
02 86 00 00-0077	EA	30 Gallon Polyethylene Open Head Drums	58.64
02 86 00 00-0078	EA	20 Gallon Polyethylene Open Head Drums	43.21
02 86 00 00-0079	EA	15 Gallon Polyethylene Open Head Drums	37.03

**02 86 00 00-0080 Fiber Drums (02 86 00 00-0001)****02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)**

Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.

02 86 00 00-0082	EA	30 Gallon Fiber Drum DOT-21C (1-9)	50.86
02 86 00 00-0083	EA	30 Gallon Fiber Drum DOT-21C (10-24)	47.65
02 86 00 00-0084	EA	30 Gallon Fiber Drum DOT-21C (25-49)	43.45
02 86 00 00-0085	EA	30 Gallon Fiber Drum DOT-21C (50+)	42.96
02 86 00 00-0086	EA	55 Gallon Fiber Drum DOT-21C (1-9)	52.34
02 86 00 00-0087	EA	55 Gallon Fiber Drum DOT-21C (10-24)	49.38
02 86 00 00-0088	EA	55 Gallon Fiber Drum DOT-21C (25-49)	45.67
02 86 00 00-0089	EA	55 Gallon Fiber Drum DOT-21C (50-99)	44.19
02 86 00 00-0090	EA	55 Gallon Fiber Drum DOT-21C (100+)	38.27
02 86 00 00-0091	EA	10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	32.59
02 86 00 00-0092	EA	20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	35.55
02 86 00 00-0093	EA	20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	41.48

**02 86 00 00-0094 Loading Hazardous Waste For Shipment (02 86 00 00-0001)**

02 86 00 00-0095	EA	Load Drums On Disposal Truck	8.79
02 86 00 00-0096	EA	Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	935.53

**02 86 00 00-0097 Transport Drums To Landfill (02 86 00 00-0001)**

Note: Includes transportation for up to 25 miles.

02 86 00 00-0098	EA	Transport Drum To Landfill	56.94
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Note: Includes transportation for up to 25 miles.



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>	
<b>Hazardous Waste Drum Handling</b>	<b>02 86</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**02 87 Bio-Hazard Material Remediation (02 80)**

**02 87 13 Mold Remediation (02 87)**

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

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

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

Note: Treat fittings as additional lf of insulation.

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

Note: Diameter is outer size of insulation.

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

Note: Excludes encased fittings.

02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	550.70
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	21.38
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	16.13
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.19
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	9.23
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	8.08

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

02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	572.65
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	25.63
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.58
02 87 13 33-0014	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.05
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	11.65
02 87 13 33-0016	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.32

**02 87 13 33-0017 Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)**

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

02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	561.68
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	12.44
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	9.43
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	7.16
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	5.58

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

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

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

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

02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	555.58
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	12.31
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	9.30
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	7.03
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	5.35

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

Note: Exposed surface area, includes associated overspray.

02 87 13 33-0032	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	561.68
02 87 13 33-0033	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	17.01
02 87 13 33-0034	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	12.87
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	9.75
02 87 13 33-0036	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	7.40

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

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

02 87 13 33-0039	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	567.78
02 87 13 33-0040	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.09
02 87 13 33-0041	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	3.55
02 87 13 33-0042	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.41
02 87 13 33-0043	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.18

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 87 13 33-0044	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0045	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0044)		
02 87 13 33-0046	SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	572.65	
02 87 13 33-0047	CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	20.25	
02 87 13 33-0048	CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	13.99	
02 87 13 33-0049	CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	10.86	
02 87 13 33-0050	CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	8.98	
02 87 13 33-0051	CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	5.57	
02 87 13 33-0052	CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	5.15	
02 87 13 33-0053	Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0054	Caulking, Mold Abatement And Disposal (02 87 13 33-0053)		
02 87 13 33-0055	SET Up To 20 LF, Caulking, Mold Abatement And Disposal	136.25	
02 87 13 33-0056	LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	2.74	
02 87 13 33-0057	LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	1.96	
02 87 13 33-0058	LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.49	
02 87 13 33-0059	LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.11	
02 87 13 33-0060	LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	0.90	
02 87 13 33-0061	LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.78	
02 87 13 33-0062	Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)		
02 87 13 33-0063	CSF Wipe Down Floors With Mild Bleach Solution	15.11	
	For >25 To 50, Deduct	-1.51	
	For >50 To 200, Deduct	-3.78	
	For >200, Deduct	-6.04	
02 87 13 33-0064	CSF Wipe Down Walls With Mild Bleach Solution	17.77	
	For >25 To 50, Deduct	-1.78	
	For >50 To 200, Deduct	-4.44	
	For >200, Deduct	-7.10	
02 87 13 33-0065	CSF Wipe Down Ceilings With Mild Bleach Solution	20.21	
	For >25 To 50, Deduct	-2.02	
	For >50 To 200, Deduct	-5.05	
	For >200, Deduct	-8.08	
02 87 13 33-0066	CSF Wipe Down Countertops With Mild Bleach Solution	16.48	
	For >25 To 50, Deduct	-1.65	
02 87 13 33-0067	CSF Wipe Down Other Surfaces With Mild Bleach Solution	20.90	
	For >25 To 50, Deduct	-2.09	
	For >50 To 200, Deduct	-5.22	
	For >200, Deduct	-8.36	
02 87 16	<b>Excrement Removal (02 87)</b>		
	Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13	<b>Bird Excrement Removal (02 87 16)</b>		
02 87 16 13-0001	Bird Waste Removal (02 87 16 13)		
	Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002	EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	543.38	
	For Work In Restricted Working Space, Add	163.01	
02 87 16 13-0003	SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	9.06	
	For Work In Restricted Working Space, Add	2.72	
02 87 16 13-0004	SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	8.23	
	For Work In Restricted Working Space, Add	2.47	
02 87 16 13-0005	SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	7.49	
	For Work In Restricted Working Space, Add	2.25	
02 87 16 13-0006	SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	6.80	
	For Work In Restricted Working Space, Add	2.04	
02 89	<b>Hazmat Ancillary Tasks And Support (02 89)</b>		
02 89 00 00-0001	Barriers And Protection (02 89)		
	Note: Includes removal and disposal after use.		
02 89 00 00-0002	Hazmat Containment Construction (02 89 00 00-0001)		
02 89 00 00-0003	SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.33	
02 89 00 00-0004	SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.43	
02 89 00 00-0005	SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.58	
02 89 00 00-0006	SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.54	
02 89 00 00-0007	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.69	
02 89 00 00-0008	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.92	





<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Facility Remediation	02 80	
Hazmat Ancillary Tasks And Support	02 89	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 89 00 00-0009 <b>Decontamination Chambers</b> <small>(02 89)</small> Note: Includes removal after use.		
02 89 00 00-0010    EA    3 Stage Portable Personnel Decontamination Wash Facility ..... Note: Includes connection to negative air system.	679.97	
02 89 00 00-0011    EA    5 Stage Portable Personnel Decontamination Wash Facility ..... Note: Includes connection to negative air system.	803.71	
02 89 00 00-0012    EA    Portable Waste Decontamination Unit ..... Note: Includes connection to negative air system.	433.98	
<i>For Dismantling And Relocation To A Different Area, Add</i>		305.66

**END OF SECTION 02**

<b>02</b>	<b>02</b>	<b>Existing Conditions</b>
	02 80	Facility Remediation
	02 89	Hazmat Ancillary Tasks And Support




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MINOR	TOTAL DIRECT
CSI UOM DESCRIPTION	UNIT COST DEMOLITION
	UNIT COST

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

#### 03 01 Maintenance Of Concrete <sup>(03)</sup>

#### 03 01 30 Maintenance Of Cast-In-Place Concrete <sup>(03 01)</sup>

#### 03 01 30 51 **Cleaning Of Cast-In-Place Concrete** <sup>(03 01 30)</sup>

##### 03 01 30 51-0001 **Abrasive Blasting** <sup>(03 01 30 51)</sup>

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

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot Blasting.....	2.07
		<i>For Up To 100, Add</i>	2.54
		<i>For &gt;100 To 250, Add</i>	0.64
		<i>For &gt;250 To 500, Add</i>	0.32
		<i>For &gt;5,000 To 10,000, Deduct</i>	-0.06
		<i>For &gt;10,000, Deduct</i>	-0.13
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot Blasting.....	3.34
		<i>For Up To 100, Add</i>	5.08
		<i>For &gt;100 To 250, Add</i>	1.27
		<i>For &gt;250 To 500, Add</i>	0.64
		<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13
		<i>For &gt;10,000, Deduct</i>	-0.25

#### 03 01 30 71 **Rehabilitation Of Cast-in-Place Concrete** <sup>(03 01 30)</sup>

##### 03 01 30 71-0001 **Concrete Resurfacing/Repair** <sup>(03 01 30 71)</sup>

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

##### 03 01 30 71-0002 **Concrete Repair** <sup>(03 01 30 71-0001)</sup>

##### 03 01 30 71-0003 **Decks Or Floors** <sup>(03 01 30 71-0002)</sup>

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

03 01 30 71-0004	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	5.80
03 01 30 71-0005	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar.....	19.22
03 01 30 71-0006	SF	Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate) .....	0.53

##### 03 01 30 71-0007 **Concrete Grinding** <sup>(03 01 30 71-0002)</sup>

03 01 30 71-0008	SY	Grinding Cured, Warped, Or Rough Concrete Slabs .....	1.57
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##### 03 01 30 71-0009 **Verticals Or Overheads** <sup>(03 01 30 71-0002)</sup>

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

03 01 30 71-0010	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar .....	8.62
03 01 30 71-0011	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar .....	25.72
03 01 30 71-0012	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar .....	29.11
03 01 30 71-0013	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound .....	6.40
03 01 30 71-0014	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	11.13

Note: Rapid Set - WunderFixx

##### 03 01 30 71-0015 **Bridge Deck Treatment** <sup>(03 01 30 71-0002)</sup>

03 01 30 71-0016	SF	Sweep Bridge Deck .....	0.01
03 01 30 71-0017	SF	Clean Bridge Deck .....	0.02
03 01 30 71-0018	SF	Treat Bridge Deck With Methacrylate Resin Sealant .....	1.50

##### 03 01 30 71-0019 **Concrete Finishes** <sup>(03 01 30 71-0001)</sup>

##### 03 01 30 71-0020 **Concrete Patching** <sup>(03 01 30 71-0019)</sup>

##### 03 01 30 71-0021 **Walls** <sup>(03 01 30 71-0020)</sup>

03 01 30 71-0022	BAG	Sika Top 111 Plus.....	112.24
		Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
		<i>For Up To 10, Add</i>	36.63
		<i>For &gt;10 To 25, Add</i>	21.98
		<i>For &gt;25 To 50, Add</i>	14.65
		<i>For &gt;50 To 75, Add</i>	7.33
03 01 30 71-0023	BAG	Sika Grout 212, 50 LB Bag .....	78.89
		Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
		<i>For Up To 10, Add</i>	23.21
		<i>For &gt;10 To 25, Add</i>	13.92
		<i>For &gt;25 To 50, Add</i>	9.28
		<i>For &gt;50 To 75, Add</i>	4.64
03 01 30 71-0024	EA	Sika Flex 1A, 10.3 Ounce Tube .....	30.88
		Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0025	BAG	Pea Gravel.....	21.70

**03 Concrete****03 01 Maintenance Of Concrete****03 01 30 Maintenance Of Cast-In-Place Concrete**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

03 01 30 71-0026	Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0027	Non Structural Crack Repair For Concrete (03 01 30 71-0026)		
03 01 30 71-0028	Surface Applied, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0029	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.27	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.86	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0031	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.35	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.02	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0033	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	5.64	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.60	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0035	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	5.85	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0036	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	8.03	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0037	Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0038	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	21.79	
	For Cracks Accessible From Both Sides, Add	4.42	
03 01 30 71-0039	Structural Crack Repair For Concrete (03 01 30 71-0026)		
03 01 30 71-0040	Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0041	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	5.90	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	8.14	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0043	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	6.10	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.53	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0045	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	6.73	
	For V-Grooving Crack With Grinder, Add	4.24	
03 01 30 71-0046	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.81	
	For V-Grooving Crack With Grinder, Add	4.14	
03 01 30 71-0047	Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0048	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	19.52	
	For Cracks Accessible From Both Sides, Add	4.42	
03 01 30 71-0049	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	19.72	
	For Cracks Accessible From Both Sides, Add	4.42	
03 01 30 71-0050	Carbon Fiber Strengthening System (03 01 30 71-0001) Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 SF Carbon Fiber Strengthening System Beams, Per Layer ..... Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	64.78	
03 01 30 71-0052 SF Carbon Fiber Strengthening System Columns, Per Layer ..... Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	56.70	
03 01 30 71-0053 SF Carbon Fiber Strengthening System Slabs, Per Layer ..... Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	49.64	

**03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)**

03 01 30 72-0001 Concrete Surface Repairs (03 01 30 72)	
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas .....	0.32

**03 05 Common Work Results For Concrete (03)**

**03 05 13 Concrete Admixtures (03 05)**

03 05 13 00-0001 Concrete Admixtures (03 05 13)	
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture .....	3.86
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture .....	2.67
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture .....	4.16
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture .....	8.32
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture .....	7.43
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture .....	14.86
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture .....	3.21
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture .....	4.46
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture .....	8.91
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture .....	5.52
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture .....	7.13
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture .....	9.51
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture .....	23.76
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture .....	88.33
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture .....	17.83
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add .....	4.16
03 05 13 00-0018 CY Chilled Water, Concrete Add .....	4.16
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture .....	24.07
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture .....	40.12
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture .....	77.02
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture .....	106.97

**03 10 Concrete Forming And Accessories (03)**

**03 11 Concrete Forming (03 10)**

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

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)	
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.	
03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)	
Note: For foundation work below or at grade.	
03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork .....	7.16
For <1,000, Add	1.34
For Foundations >8' Below Grade, Add	1.29
For Curved Formwork, Add	2.58
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork .....	8.51
For <1,000, Add	1.60
For Foundations >8' Below Grade, Add	1.55
For Curved Formwork, Add	3.11
03 11 13 00-0005 SF Mat Foundation Wood Formwork .....	9.78
For <1,000, Add	1.87
For Foundations >8' Below Grade, Add	1.83
For Curved Formwork, Add	3.66
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork .....	8.16
For <1,000, Add	1.55
For Foundations >8' Below Grade, Add	1.50
For Curved Formwork, Add	3.01
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork .....	11.61
Note: Excludes footing	
For <1,000, Add	2.19
For Foundations >8' Below Grade, Add	2.13
For Curved Formwork, Add	4.26

**03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)**



**03 Concrete****03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork .....5.51 <i>For Foundations &gt;8' Below Grade, Add</i> 1.03 <i>For Curved Formwork, Add</i> 2.05 <i>For Up To 250, Add</i> 1.05		
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork.....7.90 <i>For Foundations &gt;8' Below Grade, Add</i> 1.43 <i>For Curved Formwork, Add</i> 2.86 <i>For Up To 250, Add</i> 1.48		
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork .....10.10 <i>For Foundations &gt;8' Below Grade, Add</i> 1.85 <i>For Curved Formwork, Add</i> 3.70 <i>For &lt;1,000, Add</i> 1.91		
<b>03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)</b>		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork .....42.72		
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork .....62.05		
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork .....77.85		
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork .....111.57		
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork .....160.00		
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork .....211.25		
<b>03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)</b>		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork .....12.98 <i>For Curved Formwork, Add</i> 4.81 <i>For &lt;1,000, Add</i> 2.47		
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork.....15.39 <i>For Curved Formwork, Add</i> 5.70 <i>For &lt;1,000, Add</i> 2.93		
<b>03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)</b>		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork .....16.82 <i>For Curved Formwork, Add</i> 6.25 <i>For &lt;1,000, Add</i> 3.20		
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork.....10.75 <i>For Curved Formwork, Add</i> 4.00 <i>For &lt;1,000, Add</i> 2.05		
<b>03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)</b>		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork.....9.88 <i>For &lt;1,000, Add</i> 1.83		
<b>03 11 13 00-0027 Metal Framed Formwork (03 11 13)</b>		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
<b>03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)</b>		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork .....6.57 <i>For &lt;1,000, Add</i> 1.21 <i>For Foundations &gt;8' Below Grade, Add</i> 1.16 <i>For Curved Formwork, Add</i> 2.32		
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork .....7.30 <i>For &lt;1,000, Add</i> 1.36 <i>For Foundations &gt;8' Below Grade, Add</i> 1.30 <i>For Curved Formwork, Add</i> 2.61		
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork .....8.16 <i>For &lt;1,000, Add</i> 1.50 <i>For Foundations &gt;8' Below Grade, Add</i> 1.44 <i>For Curved Formwork, Add</i> 2.87		
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....6.88 <i>For &lt;1,000, Add</i> 1.26 <i>For Foundations &gt;8' Below Grade, Add</i> 1.21 <i>For Curved Formwork, Add</i> 2.41		
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork.....10.50 Note: Excludes footing. <i>For &lt;1,000, Add</i> 1.96 <i>For Foundations &gt;8' Below Grade, Add</i> 1.89 <i>For Curved Formwork, Add</i> 3.78		
<b>03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)</b>		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....4.74 <i>For Foundations &gt;8' Below Grade, Add</i> 0.93 <i>For Curved Formwork, Add</i> 1.85 <i>For &lt;250, Add</i> 0.93		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	5.92	
<i>For Foundations &gt;8' Below Grade, Add</i>	1.15	
<i>For Curved Formwork, Add</i>	2.30	
<i>For &lt;250, Add</i>	1.16	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork.....	6.55	
<i>For Foundations &gt;8' Below Grade, Add</i>	1.27	
<i>For Curved Formwork, Add</i>	2.54	
<i>For &lt;1,000, Add</i>	1.28	
<b>03 11 13 00-0038 Column Metal Framed Formwork</b> (03 11 13 00-0027)		
<b>03 11 13 00-0039 Square Columns</b> (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork.....	40.37	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork.....	48.76	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork.....	57.16	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork.....	68.32	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork.....	82.29	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork.....	98.80	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork.....	126.76	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork.....	156.31	
<b>03 11 13 00-0048 Round Columns</b> (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork.....	39.44	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork.....	43.88	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork.....	50.37	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork.....	58.75	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork.....	69.39	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork.....	79.47	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork.....	102.91	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork.....	134.07	
<b>03 11 13 00-0057 Above Grade Wall Metal Framed Formwork</b> (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork.....	6.44	
<i>For Curved Formwork, Add</i>	2.15	
<i>For &lt;1,000, Add</i>	1.15	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork.....	7.86	
<i>For Curved Formwork, Add</i>	2.60	
<i>For &lt;1,000, Add</i>	1.39	
<b>03 11 13 00-0060 Elevated Beam Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork.....	6.23	
<i>For Curved Formwork, Add</i>	1.99	
<i>For &lt;1,000, Add</i>	1.08	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork.....	4.79	
<i>For Curved Formwork, Add</i>	1.57	
<i>For &lt;1,000, Add</i>	0.84	
<b>03 11 13 00-0063 Elevated Slab Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork.....	7.94	
<i>For &lt;1,000, Add</i>	1.25	
<b>03 11 13 00-0065 Fiber Tube Formwork</b> (03 11 13)		
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
<b>03 11 13 00-0066 Round Column Fiber Tube Formwork</b> (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork.....	16.33	
<i>For Plastic Lined, Add</i>	0.49	
<i>For Columns &gt;12' In Length, Add</i>	1.63	
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork.....	17.17	
<i>For Plastic Lined, Add</i>	0.58	
<i>For Columns &gt;12' In Length, Add</i>	1.72	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork.....	18.92	
<i>For Plastic Lined, Add</i>	0.66	
<i>For Columns &gt;12' In Length, Add</i>	1.89	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork.....	22.17	
<i>For Plastic Lined, Add</i>	0.95	
<i>For Columns &gt;12' In Length, Add</i>	2.22	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork.....	24.86	
<i>For Plastic Lined, Add</i>	1.28	
<i>For Columns &gt;12' In Length, Add</i>	2.49	
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork.....	26.73	
<i>For Plastic Lined, Add</i>	1.63	
<i>For Columns &gt;12' In Length, Add</i>	2.67	

**03 Concrete****03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork.....	28.03	
For Plastic Lined, Add	1.77	
For Columns >12' In Length, Add	2.80	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork.....	30.31	
For Plastic Lined, Add	2.21	
For Columns >12' In Length, Add	3.03	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork.....	32.98	
For Plastic Lined, Add	2.66	
For Columns >12' In Length, Add	3.30	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork.....	35.65	
For Plastic Lined, Add	3.12	
For Columns >12' In Length, Add	3.57	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork.....	37.04	
For Plastic Lined, Add	3.40	
For Columns >12' In Length, Add	3.70	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork.....	39.16	
For Plastic Lined, Add	3.90	
For Columns >12' In Length, Add	3.92	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork.....	41.44	
For Plastic Lined, Add	4.44	
For Columns >12' In Length, Add	4.14	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork.....	49.47	
For Plastic Lined, Add	6.35	
For Columns >12' In Length, Add	4.95	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork.....	65.47	
For Plastic Lined, Add	10.79	
For Columns >12' In Length, Add	6.55	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork.....	77.05	
For Plastic Lined, Add	13.91	
For Columns >12' In Length, Add	7.71	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork.....	124.09	
For Plastic Lined, Add	27.44	
For Columns >12' In Length, Add	12.41	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork.....	137.43	
For Plastic Lined, Add	31.01	
For Columns >12' In Length, Add	13.74	
<b>03 11 13 00-0085 Accessories For Formwork (03 11 13)</b>		
<b>03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)</b>		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	2.01	
<b>03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)</b>		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.12	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.46	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.84	
<b>03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)</b>		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	9.88	
<b>03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)</b>		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	12.06	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	14.59	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	17.64	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	20.03	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	25.81	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	56.55	
<b>03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)</b>		
<b>03 11 16 13 Concrete Form Liners (03 11 16)</b>		
<b>03 11 16 13-0001 Concrete Form Liners (03 11 16 13)</b>		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	5.08	
03 11 16 13-0003 SF Rusticated Concrete Finish, Beveled Edge, 1 Use, Concrete Form Liner, Add To Formwork.....	6.60	
03 11 16 13-0004 SF Rusticated Concrete Finish, Square Edge, 1 Use, Concrete Form Liner, Add To Formwork.....	8.65	
<b>03 11 23 Permanent Stair Forming (03 11)</b>		
<b>03 11 23 00-0001 Stairway Wood Formwork (03 11 23)</b>		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork.....	16.51	
For Curved Formwork, Add	6.35	
For <1,000, Add	3.22	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork.....	32.47	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	12.39	
For <1,000, Add	6.30	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 11 23 00-0004 Stairway Metal Framed Formwork** (03 11 23)

03 11 23 00-0005	SF Cast On Grade Stairway Metal Framed Formwork .....	13.75	
	<i>For Curved Formwork, Add</i>	5.21	
	<i>For &lt;1,000, Add</i>	2.65	
03 11 23 00-0006	SF Elevated Stairway Metal Framed Formwork .....	25.33	
	<i>Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.</i>		
	<i>For Curved Formwork, Add</i>	9.66	
	<i>For &lt;1,000, Add</i>	4.91	

**03 15 Concrete Accessories** (03 10)

**03 15 13 Waterstops** (03 15)

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

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

03 15 13 13-0002	LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	7.79	
03 15 13 13-0003	LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	8.73	
03 15 13 13-0004	LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	10.44	
03 15 13 13-0005	LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	11.42	
03 15 13 13-0006	LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	16.81	
03 15 13 13-0007	LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop .....	8.39	
03 15 13 13-0008	LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop .....	10.55	
03 15 13 13-0009	LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop .....	18.30	
03 15 13 13-0010	LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	14.59	

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

03 15 13 13-0012	LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop .....	8.65	
03 15 13 13-0013	LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop .....	9.88	
03 15 13 13-0014	LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb .....	8.90	
03 15 13 13-0015	LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb .....	12.03	
03 15 13 13-0016	LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb .....	10.15	
03 15 13 13-0017	LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb .....	12.85	

**03 15 13 16 Expanding Waterstops** (03 15 13)

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

03 15 13 16-0002	LF 3/4" x 3/8" Bentonite Waterstop .....	6.84	
03 15 13 16-0003	LF 1-1/4" x 1/2" Bentonite Waterstop .....	10.39	
03 15 13 16-0004	LF 1" x 3/4" Bentonite Waterstop .....	11.65	
03 15 13 16-0005	LF 1" x 1" Bentonite Waterstop .....	13.15	

**03 15 16 Concrete Construction Joints** (03 15)

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

03 15 16 00-0002	LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured .....	1.87	0.73
	<i>For Installation In Walls, Add</i>	1.22	
03 15 16 00-0003	LF 1" x 2" Plain Asphalt Expansion Joint, Poured .....	2.82	0.73
	<i>For Installation In Walls, Add</i>	1.39	
03 15 16 00-0004	LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied .....	2.51	0.73
	<i>For Installation In Walls, Add</i>	1.22	
03 15 16 00-0005	LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied .....	5.39	0.73
	<i>For Installation In Walls, Add</i>	1.39	
03 15 16 00-0006	LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts .....	3.48	0.73
	<i>For Installation In Walls, Add</i>	1.39	
03 15 16 00-0007	LF 1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts .....	6.24	0.73
	<i>For Installation In Walls, Add</i>	2.24	
03 15 16 00-0008	LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied .....	1.94	0.73
	<i>For Installation In Walls, Add</i>	1.22	
03 15 16 00-0009	LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant .....	2.10	0.73
	<i>For Installation In Walls, Add</i>	1.22	
03 15 16 00-0010	LF 1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant .....	3.65	0.73
	<i>For Installation In Walls, Add</i>	1.39	

**03 15 16 00-0011 Premolded Expansion Joints** (03 15 16)

**03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints** (03 15 16 00-0011)

03 15 16 00-0013	LF 1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.20	1.00
03 15 16 00-0014	LF 1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.54	1.06
03 15 16 00-0015	LF 1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.73	1.11
03 15 16 00-0016	LF 1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.95	1.16
03 15 16 00-0017	LF 3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.42	1.00
03 15 16 00-0018	LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.71	1.06
03 15 16 00-0019	LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.06	1.11
03 15 16 00-0020	LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.57	1.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.18	0.95
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.39	1.00
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.62	1.06
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.82	1.11
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.07	1.16
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.43	1.21
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.70	1.26
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.18	1.31
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.64	1.06
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.04	1.11
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.76	1.21
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	6.63	1.66
<b>03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint.....	3.89	1.06
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint.....	4.38	1.16
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint.....	4.77	1.21
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint.....	6.79	1.26
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint.....	7.23	1.31
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint.....	7.95	1.66
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint.....	9.27	1.66
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint.....	9.88	1.66
<b>03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.39	1.06
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.48	1.11
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.62	1.16
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.08	1.21
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.47	1.06
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.57	1.11
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.67	1.16
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.95	1.21
<b>03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint.....	2.42	1.06
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint.....	2.64	1.11
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint.....	2.94	1.21
<b>03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	3.90	1.00
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	4.67	1.00
<b>03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)</b>		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.13	0.75
>1,250, Deduct	-0.06	
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.06	0.75
>1,250, Deduct	-0.05	
<b>03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)</b>		
<b>03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)</b>		
03 15 16 00-0063 LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	5.74	
03 15 16 00-0064 LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	5.84	
03 15 16 00-0065 LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	6.06	
03 15 16 00-0066 LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	6.43	
03 15 16 00-0067 LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	8.05	
<b>03 15 19 Cast-In Concrete Anchors (03 15)</b>		
<b>03 15 19 00-0001 Cast In Place Anchors (03 15 19)</b>		
Note: For cast in place installations. Includes nut and washer.		
<b>03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)</b>		
See CSI section 03 11 13 00-0002 for template.		
<b>03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)</b>		
03 15 19 00-0004 EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	7.41	
For Galvanized, Add	0.86	
For Stainless Steel, Add	5.99	
For >10 To 50, Deduct	-0.29	
For >50 To 100, Deduct	-0.61	
For >100, Deduct	-1.23	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	8.32	
For Galvanized, Add	1.09	
For Stainless Steel, Add	7.63	
For >10 To 50, Deduct	-0.31	
For >50 To 100, Deduct	-0.67	
For >100, Deduct	-1.34	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	9.65	
For Galvanized, Add	1.50	
For Stainless Steel, Add	10.50	
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.74	
For >100, Deduct	-1.48	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	10.57	
For Galvanized, Add	1.96	
For Stainless Steel, Add	13.72	
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.76	
For >100, Deduct	-1.53	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	12.49	
For Galvanized, Add	2.62	
For Stainless Steel, Add	18.31	
For >10 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-0.86	
For >100, Deduct	-1.71	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	13.96	
For Galvanized, Add	2.99	
For Stainless Steel, Add	20.93	
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-0.95	
For >100, Deduct	-1.90	
<b>03 15 19 00-0010 3/4" And 7/8" Diameter</b> (03 15 19 00-0002)		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	13.92	
For Galvanized, Add	2.97	
For Stainless Steel, Add	20.79	
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-0.95	
For >100, Deduct	-1.89	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	15.79	
For Galvanized, Add	3.46	
For Stainless Steel, Add	24.22	
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	18.84	
For Galvanized, Add	4.44	
For Stainless Steel, Add	31.05	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.44	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	22.34	
For Galvanized, Add	5.59	
For Stainless Steel, Add	39.10	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.79	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	18.09	
For Galvanized, Add	4.06	
For Stainless Steel, Add	28.42	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	21.12	
For Galvanized, Add	4.86	
For Stainless Steel, Add	34.02	
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.77	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	26.26	
For Galvanized, Add	6.48	
For Stainless Steel, Add	45.36	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.31	
<b>03 15 19 00-0018 1" And 1-1/8" Diameter</b> (03 15 19 00-0002)		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	21.90	
For Galvanized, Add	5.25	
For Stainless Steel, Add	36.75	
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.81	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020 EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	25.94	
For Galvanized, Add	6.32	
For Stainless Steel, Add	44.24	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.29	
03 15 19 00-0021 EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	31.79	
For Galvanized, Add	7.92	
For Stainless Steel, Add	55.44	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.99	
For >100, Deduct	-3.98	
03 15 19 00-0022 EA 1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	39.31	
For Galvanized, Add	9.68	
For Stainless Steel, Add	67.76	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.48	
For >100, Deduct	-4.96	
03 15 19 00-0023 EA 1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	25.65	
For Galvanized, Add	6.57	
For Stainless Steel, Add	45.96	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.16	
03 15 19 00-0024 EA 1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	30.40	
For Galvanized, Add	7.90	
For Stainless Steel, Add	55.30	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.86	
For >100, Deduct	-3.71	
03 15 19 00-0025 EA 1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	37.32	
For Galvanized, Add	9.90	
For Stainless Steel, Add	69.30	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.25	
For >100, Deduct	-4.49	
03 15 19 00-0026 EA 1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	46.09	
For Galvanized, Add	12.10	
For Stainless Steel, Add	84.67	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.79	
For >100, Deduct	-5.59	
<b>03 15 19 00-0027 1-1/4" And 1-1/2" Diameter (03 15 19 00-0002)</b>		
03 15 19 00-0028 EA 1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	30.27	
For Galvanized, Add	8.21	
For Stainless Steel, Add	57.44	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.59	
03 15 19 00-0029 EA 1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	35.92	
For Galvanized, Add	9.88	
For Stainless Steel, Add	69.13	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
03 15 19 00-0030 EA 1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	44.16	
For Galvanized, Add	12.38	
For Stainless Steel, Add	86.66	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.56	
For >100, Deduct	-5.12	
03 15 19 00-0031 EA 1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	54.49	
For Galvanized, Add	15.12	
For Stainless Steel, Add	105.84	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-3.18	
For >100, Deduct	-6.36	
03 15 19 00-0032 EA 1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	36.05	
For Galvanized, Add	10.26	
For Stainless Steel, Add	71.79	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-2.07	
For >100, Deduct	-4.13	
03 15 19 00-0033 EA 1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	42.83	
For Galvanized, Add	12.35	
For Stainless Steel, Add	86.42	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.43	
For >100, Deduct	-4.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	52.73	
For Galvanized, Add	15.48	
For Stainless Steel, Add	108.36	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-2.95	
For >100, Deduct	-5.90	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	64.99	
For Galvanized, Add	18.90	
For Stainless Steel, Add	132.30	
For >10 To 50, Deduct	-1.36	
For >50 To 100, Deduct	-3.66	
For >100, Deduct	-7.33	
<b>03 15 19 00-0036 L-Type Anchor Bolts</b> <small>(03 15 19 00-0001)</small>		
See CSI section 03 11 13 00-0002 for template.		
<b>03 15 19 00-0037 3/4" And 7/8" Diameter</b> <small>(03 15 19 00-0036)</small>		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	13.41	
For Galvanized, Add	2.27	
For Stainless Steel, Add	15.89	
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.00	
For >100, Deduct	-2.00	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	15.58	
For Galvanized, Add	2.81	
For Stainless Steel, Add	19.64	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.27	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	17.83	
For Galvanized, Add	3.22	
For Stainless Steel, Add	22.51	
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	19.98	
For Galvanized, Add	3.34	
For Stainless Steel, Add	23.38	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.50	
For >100, Deduct	-2.99	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	22.96	
For Galvanized, Add	3.51	
For Stainless Steel, Add	24.54	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.77	
For >100, Deduct	-3.54	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	15.60	
For Galvanized, Add	2.82	
For Stainless Steel, Add	19.71	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.28	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	17.96	
For Galvanized, Add	3.28	
For Stainless Steel, Add	22.96	
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	20.82	
For Galvanized, Add	3.76	
For Stainless Steel, Add	26.32	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.52	
For >100, Deduct	-3.04	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	23.76	
For Galvanized, Add	3.91	
For Stainless Steel, Add	27.34	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.79	
For >100, Deduct	-3.58	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	28.15	
For Galvanized, Add	4.10	
For Stainless Steel, Add	28.70	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.40	
<b>03 15 19 00-0048 1" And 1-1/8" Diameter</b> <small>(03 15 19 00-0036)</small>		

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	18.62	
			<i>For Galvanized, Add</i>	3.61	
			<i>For Stainless Steel, Add</i>	25.27	
			<i>For &gt;10 To 50, Deduct</i>	-0.57	
			<i>For &gt;50 To 100, Deduct</i>	-1.32	
			<i>For &gt;100, Deduct</i>	-2.64	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	21.42	
			<i>For Galvanized, Add</i>	4.06	
			<i>For Stainless Steel, Add</i>	28.42	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.53	
			<i>For &gt;100, Deduct</i>	-3.07	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	25.03	
			<i>For Galvanized, Add</i>	4.54	
			<i>For Stainless Steel, Add</i>	31.78	
			<i>For &gt;10 To 50, Deduct</i>	-0.80	
			<i>For &gt;50 To 100, Deduct</i>	-1.82	
			<i>For &gt;100, Deduct</i>	-3.64	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	26.85	
			<i>For Galvanized, Add</i>	4.76	
			<i>For Stainless Steel, Add</i>	33.29	
			<i>For &gt;10 To 50, Deduct</i>	-0.87	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100, Deduct</i>	-3.94	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	29.91	
			<i>For Galvanized, Add</i>	4.98	
			<i>For Stainless Steel, Add</i>	34.86	
			<i>For &gt;10 To 50, Deduct</i>	-1.00	
			<i>For &gt;50 To 100, Deduct</i>	-2.24	
			<i>For &gt;100, Deduct</i>	-4.49	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	33.71	
			<i>For Galvanized, Add</i>	5.77	
			<i>For Stainless Steel, Add</i>	40.39	
			<i>For &gt;10 To 50, Deduct</i>	-1.11	
			<i>For &gt;50 To 100, Deduct</i>	-2.51	
			<i>For &gt;100, Deduct</i>	-5.01	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	40.10	
			<i>For Galvanized, Add</i>	6.75	
			<i>For Stainless Steel, Add</i>	47.25	
			<i>For &gt;10 To 50, Deduct</i>	-1.33	
			<i>For &gt;50 To 100, Deduct</i>	-3.00	
			<i>For &gt;100, Deduct</i>	-6.00	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	22.80	
			<i>For Galvanized, Add</i>	4.75	
			<i>For Stainless Steel, Add</i>	33.25	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.57	
			<i>For &gt;100, Deduct</i>	-3.14	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	26.58	
			<i>For Galvanized, Add</i>	5.32	
			<i>For Stainless Steel, Add</i>	37.21	
			<i>For &gt;10 To 50, Deduct</i>	-0.80	
			<i>For &gt;50 To 100, Deduct</i>	-1.86	
			<i>For &gt;100, Deduct</i>	-3.72	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	28.46	
			<i>For Galvanized, Add</i>	5.56	
			<i>For Stainless Steel, Add</i>	38.92	
			<i>For &gt;10 To 50, Deduct</i>	-0.87	
			<i>For &gt;50 To 100, Deduct</i>	-2.01	
			<i>For &gt;100, Deduct</i>	-4.02	
<b>03 15 19 00-0059</b>			<b>1-1/4" And 1-3/8" Diameter</b> <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	27.43	
			<i>For Galvanized, Add</i>	5.74	
			<i>For Stainless Steel, Add</i>	40.18	
			<i>For &gt;10 To 50, Deduct</i>	-0.80	
			<i>For &gt;50 To 100, Deduct</i>	-1.88	
			<i>For &gt;100, Deduct</i>	-3.76	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	33.39	
			<i>For Galvanized, Add</i>	6.72	
			<i>For Stainless Steel, Add</i>	47.04	
			<i>For &gt;10 To 50, Deduct</i>	-1.00	
			<i>For &gt;50 To 100, Deduct</i>	-2.33	
			<i>For &gt;100, Deduct</i>	-4.66	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	36.22	
			<i>For Galvanized, Add</i>	7.61	
			<i>For Stainless Steel, Add</i>	53.27	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.48	
			<i>For &gt;100, Deduct</i>	-4.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	39.36	
For Galvanized, Add	8.60	
For Stainless Steel, Add	60.17	
For >10 To 50, Deduct	-1.11	
For >50 To 100, Deduct	-2.65	
For >100, Deduct	-5.29	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	43.62	
For Galvanized, Add	9.35	
For Stainless Steel, Add	65.42	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-2.96	
For >100, Deduct	-5.92	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	48.52	
For Galvanized, Add	10.01	
For Stainless Steel, Add	70.07	
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-3.35	
For >100, Deduct	-6.70	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	54.68	
For Galvanized, Add	10.72	
For Stainless Steel, Add	75.01	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-3.86	
For >100, Deduct	-7.72	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	63.58	
For Galvanized, Add	11.85	
For Stainless Steel, Add	82.92	
For >10 To 50, Deduct	-1.99	
For >50 To 100, Deduct	-4.58	
For >100, Deduct	-9.16	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	30.31	
For Galvanized, Add	7.18	
For Stainless Steel, Add	50.26	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.95	
For >100, Deduct	-3.91	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	36.75	
For Galvanized, Add	8.40	
For Stainless Steel, Add	58.80	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.42	
For >100, Deduct	-4.83	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	40.02	
For Galvanized, Add	9.51	
For Stainless Steel, Add	66.57	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.58	
For >100, Deduct	-5.15	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	43.65	
For Galvanized, Add	10.74	
For Stainless Steel, Add	75.18	
For >10 To 50, Deduct	-1.11	
For >50 To 100, Deduct	-2.75	
For >100, Deduct	-5.51	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	48.30	
For Galvanized, Add	11.69	
For Stainless Steel, Add	81.80	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-3.08	
For >100, Deduct	-6.15	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	53.53	
For Galvanized, Add	12.52	
For Stainless Steel, Add	87.61	
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-3.48	
For >100, Deduct	-6.95	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	60.25	
For Galvanized, Add	13.50	
For Stainless Steel, Add	94.50	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-4.00	
For >100, Deduct	-8.00	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	69.51	
For Galvanized, Add	14.81	
For Stainless Steel, Add	103.67	
For >10 To 50, Deduct	-1.99	
For >50 To 100, Deduct	-4.73	
For >100, Deduct	-9.46	

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



**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077 EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	38.04	
For Galvanized, Add	9.95	
For Stainless Steel, Add	69.65	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.31	
For >100, Deduct	-4.62	
03 15 19 00-0078 EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	41.87	
For Galvanized, Add	10.44	
For Stainless Steel, Add	73.05	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.62	
For >100, Deduct	-5.24	
03 15 19 00-0079 EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	46.43	
For Galvanized, Add	11.49	
For Stainless Steel, Add	80.40	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.92	
For >100, Deduct	-5.84	
03 15 19 00-0080 EA 1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	50.02	
For Galvanized, Add	12.55	
For Stainless Steel, Add	87.82	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.24	
03 15 19 00-0081 EA 1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	53.82	
For Galvanized, Add	13.61	
For Stainless Steel, Add	95.27	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-3.34	
For >100, Deduct	-6.68	
03 15 19 00-0082 EA 1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	59.96	
For Galvanized, Add	14.64	
For Stainless Steel, Add	102.45	
For >10 To 50, Deduct	-1.53	
For >50 To 100, Deduct	-3.80	
For >100, Deduct	-7.60	
03 15 19 00-0083 EA 1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	67.93	
For Galvanized, Add	15.83	
For Stainless Steel, Add	110.81	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-4.42	
For >100, Deduct	-8.84	
03 15 19 00-0084 EA 1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	79.44	
For Galvanized, Add	17.56	
For Stainless Steel, Add	122.89	
For >10 To 50, Deduct	-2.22	
For >50 To 100, Deduct	-5.31	
For >100, Deduct	-10.62	
03 15 19 00-0085 EA 1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	49.89	
For Galvanized, Add	14.97	
For Stainless Steel, Add	104.79	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.49	
03 15 19 00-0086 EA 1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	52.76	
For Galvanized, Add	15.30	
For Stainless Steel, Add	107.07	
For >10 To 50, Deduct	-1.11	
For >50 To 100, Deduct	-2.98	
For >100, Deduct	-5.96	
03 15 19 00-0087 EA 1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	54.54	
For Galvanized, Add	15.54	
For Stainless Steel, Add	108.78	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.25	
03 15 19 00-0088 EA 1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	60.83	
For Galvanized, Add	17.95	
For Stainless Steel, Add	125.65	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-3.39	
For >100, Deduct	-6.78	
03 15 19 00-0089 EA 1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	69.95	
For Galvanized, Add	20.73	
For Stainless Steel, Add	145.08	
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-3.89	
For >100, Deduct	-7.77	
03 15 19 00-0090 EA 1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	75.24	
For Galvanized, Add	21.00	
For Stainless Steel, Add	146.97	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-4.37	
For >100, Deduct	-8.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	85.24	
For Galvanized, Add	22.68	
For Stainless Steel, Add	158.73	
For >10 To 50, Deduct	-1.99	
For >50 To 100, Deduct	-5.12	
For >100, Deduct	-10.25	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	98.70	
For Galvanized, Add	24.42	
For Stainless Steel, Add	170.94	
For >10 To 50, Deduct	-2.49	
For >50 To 100, Deduct	-6.21	
For >100, Deduct	-12.41	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	69.04	
For Galvanized, Add	22.79	
For Stainless Steel, Add	159.53	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.97	
03 15 19 00-0094 EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	75.88	
For Galvanized, Add	24.64	
For Stainless Steel, Add	172.48	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-3.89	
For >100, Deduct	-7.78	
03 15 19 00-0095 EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	84.40	
For Galvanized, Add	26.86	
For Stainless Steel, Add	187.99	
For >10 To 50, Deduct	-1.53	
For >50 To 100, Deduct	-4.41	
For >100, Deduct	-8.82	
03 15 19 00-0096 EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	93.15	
For Galvanized, Add	28.44	
For Stainless Steel, Add	199.08	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-5.05	
For >100, Deduct	-10.10	
03 15 19 00-0097 EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	101.01	
For Galvanized, Add	30.56	
For Stainless Steel, Add	213.92	
For >10 To 50, Deduct	-1.99	
For >50 To 100, Deduct	-5.52	
For >100, Deduct	-11.03	
03 15 19 00-0098 EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	109.60	
For Galvanized, Add	32.64	
For Stainless Steel, Add	228.45	
For >10 To 50, Deduct	-2.22	
For >50 To 100, Deduct	-6.06	
For >100, Deduct	-12.13	
03 15 19 00-0099 EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	127.09	
For Galvanized, Add	35.05	
For Stainless Steel, Add	245.35	
For >10 To 50, Deduct	-2.85	
For >50 To 100, Deduct	-7.45	
For >100, Deduct	-14.90	
03 15 19 00-0100 EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	134.05	
For Galvanized, Add	38.53	
For Stainless Steel, Add	269.71	
For >10 To 50, Deduct	-2.85	
For >50 To 100, Deduct	-7.63	
For >100, Deduct	-15.25	
03 15 19 00-0101 EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	152.15	
For Galvanized, Add	42.83	
For Stainless Steel, Add	299.81	
For >10 To 50, Deduct	-3.32	
For >50 To 100, Deduct	-8.79	
For >100, Deduct	-17.58	
<b>03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0096)</b> .....	<b>124.73</b>	
03 15 19 00-0103 EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	124.73	
For Galvanized, Add	50.64	
For Stainless Steel, Add	354.45	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-4.88	
For >100, Deduct	-9.76	
03 15 19 00-0104 EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	132.45	
For Galvanized, Add	52.93	
For Stainless Steel, Add	370.48	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-5.31	
For >100, Deduct	-10.61	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	145.48	
			<i>For Galvanized, Add</i>	57.40	
			<i>For Stainless Steel, Add</i>	401.77	
			<i>For &gt;10 To 50, Deduct</i>	-1.53	
			<i>For &gt;50 To 100, Deduct</i>	-5.94	
			<i>For &gt;100, Deduct</i>	-11.88	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	157.24	
			<i>For Galvanized, Add</i>	60.49	
			<i>For Stainless Steel, Add</i>	423.40	
			<i>For &gt;10 To 50, Deduct</i>	-1.81	
			<i>For &gt;50 To 100, Deduct</i>	-6.65	
			<i>For &gt;100, Deduct</i>	-13.30	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	167.35	
			<i>For Galvanized, Add</i>	63.73	
			<i>For Stainless Steel, Add</i>	446.11	
			<i>For &gt;10 To 50, Deduct</i>	-1.99	
			<i>For &gt;50 To 100, Deduct</i>	-7.18	
			<i>For &gt;100, Deduct</i>	-14.35	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	179.05	
			<i>For Galvanized, Add</i>	67.36	
			<i>For Stainless Steel, Add</i>	471.52	
			<i>For &gt;10 To 50, Deduct</i>	-2.22	
			<i>For &gt;50 To 100, Deduct</i>	-7.80	
			<i>For &gt;100, Deduct</i>	-15.60	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	199.15	
			<i>For Galvanized, Add</i>	71.08	
			<i>For Stainless Steel, Add</i>	497.56	
			<i>For &gt;10 To 50, Deduct</i>	-2.85	
			<i>For &gt;50 To 100, Deduct</i>	-9.25	
			<i>For &gt;100, Deduct</i>	-18.51	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	139.57	
			<i>For Galvanized, Add</i>	57.32	
			<i>For Stainless Steel, Add</i>	401.24	
			<i>For &gt;10 To 50, Deduct</i>	-1.25	
			<i>For &gt;50 To 100, Deduct</i>	-5.36	
			<i>For &gt;100, Deduct</i>	-10.72	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	151.13	
			<i>For Galvanized, Add</i>	61.32	
			<i>For Stainless Steel, Add</i>	429.21	
			<i>For &gt;10 To 50, Deduct</i>	-1.43	
			<i>For &gt;50 To 100, Deduct</i>	-5.92	
			<i>For &gt;100, Deduct</i>	-11.83	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	163.94	
			<i>For Galvanized, Add</i>	65.35	
			<i>For Stainless Steel, Add</i>	457.42	
			<i>For &gt;10 To 50, Deduct</i>	-1.66	
			<i>For &gt;50 To 100, Deduct</i>	-6.59	
			<i>For &gt;100, Deduct</i>	-13.18	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	177.85	
			<i>For Galvanized, Add</i>	68.98	
			<i>For Stainless Steel, Add</i>	482.86	
			<i>For &gt;10 To 50, Deduct</i>	-1.99	
			<i>For &gt;50 To 100, Deduct</i>	-7.44	
			<i>For &gt;100, Deduct</i>	-14.88	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	190.22	
			<i>For Galvanized, Add</i>	72.95	
			<i>For Stainless Steel, Add</i>	510.62	
			<i>For &gt;10 To 50, Deduct</i>	-2.22	
			<i>For &gt;50 To 100, Deduct</i>	-8.08	
			<i>For &gt;100, Deduct</i>	-16.16	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	207.02	
			<i>For Galvanized, Add</i>	78.58	
			<i>For Stainless Steel, Add</i>	550.06	
			<i>For &gt;10 To 50, Deduct</i>	-2.49	
			<i>For &gt;50 To 100, Deduct</i>	-8.92	
			<i>For &gt;100, Deduct</i>	-17.83	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	232.30	
			<i>For Galvanized, Add</i>	82.91	
			<i>For Stainless Steel, Add</i>	580.34	
			<i>For &gt;10 To 50, Deduct</i>	-3.32	
			<i>For &gt;50 To 100, Deduct</i>	-10.79	
			<i>For &gt;100, Deduct</i>	-21.59	

**03 20 Concrete Reinforcing** <sup>(03)</sup>

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

**03 21 Reinforcement Bars** <sup>(03 20)</sup>

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

**03 21 11 Plain Steel Reinforcement Bars** <sup>(03 21)</sup>**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** <sup>(03 21 11)</sup>

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.55	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.91	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.35	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.84	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.56	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.93	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.38	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.88	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.57	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.95	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.42	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.94	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.52	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.12	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.82	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.64	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.49	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.55	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	12.84	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.00	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.60	
03 21 11 00-0023 LF #8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.22	
03 21 11 00-0024 LF #9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.95	
03 21 11 00-0025 LF #10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.81	
03 21 11 00-0026 LF #11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.70	
03 21 11 00-0027 LF #14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	7.85	
03 21 11 00-0028 LF #18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	13.37	
03 21 11 00-0029 LF #3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.58	
03 21 11 00-0030 LF #4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.97	
03 21 11 00-0031 LF #5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.45	
03 21 11 00-0032 LF #6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.99	
03 21 11 00-0033 LF #7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.58	
03 21 11 00-0034 LF #8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.20	
03 21 11 00-0035 LF #9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.92	
03 21 11 00-0036 LF #10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.76	
03 21 11 00-0037 LF #11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.65	
03 21 11 00-0038 LF #14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	7.78	
03 21 11 00-0039 LF #18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	13.24	
<b>03 21 11 00-0040</b>	<b>Columns, Steel Reinforcement Bar</b> (03 21 11)	
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0041 LF #3, Grade 40, Columns, Steel Reinforcement Bar.....	0.57	
03 21 11 00-0042 LF #4, Grade 40, Columns, Steel Reinforcement Bar.....	0.97	
03 21 11 00-0043 LF #5, Grade 40, Columns, Steel Reinforcement Bar.....	1.43	
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	1.95	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.58	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	0.99	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.46	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	1.99	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.59	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.01	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.50	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.05	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	2.66	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	3.28	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	4.00	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	4.85	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	5.72	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	7.86	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	13.32	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.11	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	2.74	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	3.38	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	4.13	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	5.02	
03 21 11 00-0065 LF #11, Grade 75, Columns, Steel Reinforcement Bar.....	5.93	
03 21 11 00-0066 LF #14, Grade 75, Columns, Steel Reinforcement Bar.....	8.16	
03 21 11 00-0067 LF #18, Grade 75, Columns, Steel Reinforcement Bar.....	13.85	
03 21 11 00-0068 LF #3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.60	
03 21 11 00-0069 LF #4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.03	
03 21 11 00-0070 LF #5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.53	
03 21 11 00-0071 LF #6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.10	
03 21 11 00-0072 LF #7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.72	
03 21 11 00-0073 LF #8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.36	
03 21 11 00-0074 LF #9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.10	
03 21 11 00-0075 LF #10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.97	
03 21 11 00-0076 LF #11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.88	
03 21 11 00-0077 LF #14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	8.09	
03 21 11 00-0078 LF #18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	13.72	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

## 03 21 11 00-0079

Footings, Steel Reinforcement Bar <sup>(03 21 11)</sup>

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar.....	0.49
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar.....	0.83
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar.....	1.23
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar.....	1.69
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar.....	0.50
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar.....	0.85
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar.....	1.26
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar.....	1.73
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar.....	0.51
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar.....	0.87
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar.....	1.30
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar.....	1.79
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar.....	2.32
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar.....	2.89
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar.....	3.55
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar.....	4.32
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar.....	5.14
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar.....	7.10
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar.....	12.11
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar.....	1.85
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar.....	2.40
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar.....	2.99
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar.....	3.68
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar.....	4.49
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar.....	5.35
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar.....	7.40
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar.....	12.64
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	0.52
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	0.89
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	1.33
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	1.84
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	2.38
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	2.97
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	3.65
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	4.44
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	5.30
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	7.33
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	12.51

## 03 21 11 00-0118

Slab On Grade, Steel Reinforcement Bar <sup>(03 21 11)</sup>

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

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	0.48
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	0.80
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	1.19
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	1.63
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	0.49
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	0.82
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	1.22
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	1.67
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	0.50
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	0.84
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	1.26
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	1.73
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	2.26
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	2.80
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	3.46
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	4.22
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	5.02
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	6.94
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	11.86
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	1.79
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	2.34
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	2.90
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	3.59
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	4.39
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	5.23
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	7.24
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	12.39
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	0.51
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	0.86
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	1.29
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	1.78
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	2.32
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	2.88
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	3.56
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	4.34
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	5.18
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	7.17





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar			12.26	
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**03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar** (03 21 11)

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

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar			0.44	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar			0.74	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar			1.11	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar			1.53	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar			0.45	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar			0.76	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar			1.14	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar			1.57	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar			0.46	
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar			0.78	
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar			1.18	
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar			1.63	
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar			2.12	
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar			2.64	
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar			3.27	
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar			4.01	
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar			4.78	
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar			6.64	
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar			11.38	
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar			1.69	
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar			2.20	
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar			2.74	
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar			3.40	
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar			4.18	
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar			4.99	
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar			6.94	
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar			11.91	
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			0.47	
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			0.80	
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			1.21	
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			1.68	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			2.18	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			2.72	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			3.37	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			4.13	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			4.94	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			6.87	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar			11.78	

**03 21 11 00-0196 Walls, Steel Reinforcement Bar** (03 21 11)

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

03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar			0.42	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar			0.71	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar			1.06	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar			1.47	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar			0.43	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar			0.73	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar			1.09	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar			1.51	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar			0.44	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar			0.75	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar			1.13	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar			1.57	
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar			2.05	
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar			2.57	
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar			3.18	
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar			3.91	
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar			4.67	
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar			6.49	
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar			11.14	
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar			1.63	
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar			2.13	
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar			2.67	
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar			3.31	
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar			4.08	
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar			4.88	
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar			6.79	
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar			11.67	
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			0.45	
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			0.77	
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			1.16	
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			1.62	
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			2.11	
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			2.65	
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar			3.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	4.03	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	4.83	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	6.72	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	11.54	
<b>03 21 11 00-0235</b>			<b>Mechanical Joint Connection</b> (03 21 11)		
<b>03 21 11 00-0236</b>			<b>Thermal Type Mechanical Joint Connection</b> (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice .....	173.09	
<b>03 21 11 00-0238</b>			<b>Screwed Type Mechanical Joint Connection</b> (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice .....	95.37	
<b>03 21 11 00-0240</b>			<b>Deformed Straight Dowels</b> (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel .....	2.39	
			For Up To 12" Length, Deduct .....	-0.25	
			For >12" To <24" Length, Deduct .....	-0.13	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel .....	2.84	
			For Up To 12" Length, Deduct .....	-0.33	
			For >12" To <24" Length, Deduct .....	-0.17	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel .....	3.42	
			For Up To 12" Length, Deduct .....	-0.52	
			For >12" To <24" Length, Deduct .....	-0.26	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel .....	4.12	
			For Up To 12" Length, Deduct .....	-0.76	
			For >12" To <24" Length, Deduct .....	-0.38	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel .....	4.79	
			For Up To 12" Length, Deduct .....	-1.05	
			For >12" To <24" Length, Deduct .....	-0.53	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel .....	6.04	
			For Up To 12" Length, Deduct .....	-1.35	
			For >12" To <24" Length, Deduct .....	-0.67	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel .....	7.10	
			For Up To 12" Length, Deduct .....	-1.66	
			For >12" To <24" Length, Deduct .....	-0.83	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel .....	8.64	
			For Up To 12" Length, Deduct .....	-2.17	
			For >12" To <24" Length, Deduct .....	-1.09	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel .....	10.22	
			For Up To 12" Length, Deduct .....	-2.68	
			For >12" To <24" Length, Deduct .....	-1.34	
<b>03 21 11 00-0250</b>			<b>Spirals, Reinforcing Steel</b> (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,977.99	
			For Grade 75, Add .....	188.81	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,942.93	
			For Grade 75, Add .....	188.81	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,942.93	
			For Grade 75, Add .....	188.81	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,872.47	
			For Grade 75, Add .....	188.81	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,813.36	
			For Grade 75, Add .....	188.81	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,816.79	
			For Grade 75, Add .....	193.46	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,767.30	
			For Grade 75, Add .....	193.46	
<b>03 21 11 00-0258</b>			<b>Accessories For Reinforcing Steel</b> (03 21 11)		
<b>03 21 11 00-0259</b>			<b>Reinforcing Steel Lap-Weld Splice</b> (03 21 11 00-0258)		
03 21 11 00-0260	EA		Up To #6 Reinforcing Steel Lap-Weld Splice .....	35.32	
03 21 11 00-0261	EA		>#6 Reinforcing Steel Lap-Weld Splice .....	51.11	
<b>03 21 11 00-0262</b>			<b>Reinforcing Steel Sleeve And Wedge Splice Joint</b> (03 21 11 00-0258)		
03 21 11 00-0263	EA		Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint .....	26.35	
03 21 11 00-0264	EA		#5 Reinforcing Steel, Sleeve And Wedge Splice Joint .....	38.62	
03 21 11 00-0265	EA		#6 Reinforcing Steel, Sleeve And Wedge Splice Joint .....	55.88	
<b>03 21 13</b>			<b>Galvanized Reinforcement Steel Bars</b> (03 21)		
<b>03 21 13 00-0001</b>			<b>Beams And Girders, Galvanized Steel Reinforcement Bar</b> (03 21 13)		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002	LF		#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.65	
03 21 13 00-0003	LF		#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0004 LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.63	
03 21 13 00-0005 LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.25	
03 21 13 00-0006 LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.66	
03 21 13 00-0007 LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.10	
03 21 13 00-0008 LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.66	
03 21 13 00-0009 LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.28	
03 21 13 00-0010 LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.67	
03 21 13 00-0011 LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.13	
03 21 13 00-0012 LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.70	
03 21 13 00-0013 LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.34	
03 21 13 00-0014 LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.07	
03 21 13 00-0015 LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.83	
03 21 13 00-0016 LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	4.73	
03 21 13 00-0017 LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	5.79	
03 21 13 00-0018 LF #11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	6.91	
03 21 13 00-0019 LF #14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	9.60	
03 21 13 00-0020 LF #18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	16.47	
03 21 13 00-0021 LF #6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.40	
03 21 13 00-0022 LF #7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.15	
03 21 13 00-0023 LF #8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.94	
03 21 13 00-0024 LF #9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	4.86	
03 21 13 00-0025 LF #10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	5.96	
03 21 13 00-0026 LF #11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	7.12	
03 21 13 00-0027 LF #14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	9.90	
03 21 13 00-0028 LF #18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	17.00	
<b>03 21 13 00-0029</b>	<b>Columns, Galvanized Steel Reinforcement Bar</b>	<i>(03 21 13)</i>
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030 LF #3, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	0.67	
03 21 13 00-0031 LF #4, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	1.15	
03 21 13 00-0032 LF #5, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	1.71	
03 21 13 00-0033 LF #6, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	2.36	
03 21 13 00-0034 LF #3, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	0.68	
03 21 13 00-0035 LF #4, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	1.16	
03 21 13 00-0036 LF #5, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	1.74	
03 21 13 00-0037 LF #6, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	2.39	
03 21 13 00-0038 LF #3, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	0.69	
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	1.19	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	1.78	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	2.45	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	3.21	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	3.99	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	4.91	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	6.00	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	7.14	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	9.91	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	16.95	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	2.51	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	3.29	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	4.10	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	5.04	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	6.17	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	7.35	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	10.21	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	17.48	
<b>03 21 13 00-0057</b>	<b>Footings, Galvanized Steel Reinforcement Bar</b>	<i>(03 21 13)</i>
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	0.59	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	1.01	
03 21 13 00-0060 LF #5, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	1.51	
03 21 13 00-0061 LF #6, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	2.10	
03 21 13 00-0062 LF #3, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	0.60	
03 21 13 00-0063 LF #4, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.02	
03 21 13 00-0064 LF #5, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.54	
03 21 13 00-0065 LF #6, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	2.13	
03 21 13 00-0066 LF #3, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	0.61	
03 21 13 00-0067 LF #4, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	1.05	
03 21 13 00-0068 LF #5, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	1.58	
03 21 13 00-0069 LF #6, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.19	
03 21 13 00-0070 LF #7, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.87	
03 21 13 00-0071 LF #8, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	3.60	
03 21 13 00-0072 LF #9, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	4.46	
03 21 13 00-0073 LF #10, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	5.47	
03 21 13 00-0074 LF #11, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	6.56	
03 21 13 00-0075 LF #14, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	9.15	
03 21 13 00-0076 LF #18, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	15.74	
03 21 13 00-0077 LF #6, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	2.25	
03 21 13 00-0078 LF #7, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	2.95	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	3.71
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	4.59
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	5.64
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	6.77
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	9.45
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	16.27

### 03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.58
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.98
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.47
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.04
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.59
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.99
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.50
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.07
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.60
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.02
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.54
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.13
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.81
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	3.51
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	4.37
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	5.37
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	6.44
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	8.99
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	15.49
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.19
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.89
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	3.62
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	4.50
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	5.54
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	6.65
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	9.29
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	16.02

### 03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.54
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.92
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.39
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.94
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.55
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.93
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.42
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.97
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.56
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.96
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.46
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.03
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.67
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	3.35
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	4.18
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	5.16
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	6.20
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	8.69
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	15.01
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.09
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.75
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	3.46
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	4.31
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	5.33
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	6.41
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	8.99
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	15.54

### 03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	0.52
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	0.89
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	1.34
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	1.88
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	0.53
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	0.90
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	1.37
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	1.91
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	0.54





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0151 LF #4, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	0.93	
03 21 13 00-0152 LF #5, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	1.41	
03 21 13 00-0153 LF #6, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	1.97	
03 21 13 00-0154 LF #7, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	2.60	
03 21 13 00-0155 LF #8, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	3.28	
03 21 13 00-0156 LF #9, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	4.09	
03 21 13 00-0157 LF #10, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	5.06	
03 21 13 00-0158 LF #11, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	6.09	
03 21 13 00-0159 LF #14, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	8.54	
03 21 13 00-0160 LF #18, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	14.77	
03 21 13 00-0161 LF #6, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	2.03	
03 21 13 00-0162 LF #7, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	2.68	
03 21 13 00-0163 LF #8, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	3.39	
03 21 13 00-0164 LF #9, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	4.22	
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	5.23	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	6.30	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	8.84	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	15.30	

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

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.64	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.07	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.60	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.20	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.65	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.09	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.63	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.24	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.66	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.11	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.67	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.30	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.01	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.75	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	4.63	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	5.66	
03 21 16 00-0018 LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	6.76	
03 21 16 00-0019 LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	9.38	
03 21 16 00-0020 LF #18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	16.08	
03 21 16 00-0021 LF #6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.36	
03 21 16 00-0022 LF #7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.09	
03 21 16 00-0023 LF #8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.86	
03 21 16 00-0024 LF #9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	4.76	
03 21 16 00-0025 LF #10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	5.83	
03 21 16 00-0026 LF #11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	6.96	
03 21 16 00-0027 LF #14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	9.67	
03 21 16 00-0028 LF #18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	16.61	

**03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)**

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030 LF #3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.66	
03 21 16 00-0031 LF #4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.13	
03 21 16 00-0032 LF #5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.68	
03 21 16 00-0033 LF #6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.31	
03 21 16 00-0034 LF #3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.67	
03 21 16 00-0035 LF #4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.15	
03 21 16 00-0036 LF #5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.71	
03 21 16 00-0037 LF #6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.35	
03 21 16 00-0038 LF #3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.68	
03 21 16 00-0039 LF #4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.17	
03 21 16 00-0040 LF #5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.75	
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.41	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	3.15	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	3.91	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	4.81	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	5.87	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	6.99	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	9.69	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	16.56	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.47	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	3.23	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	4.02	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	4.94	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	6.04	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	7.19	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	9.98	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	17.09	





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar** (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.58
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.99
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.48
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.05
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.59
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.01
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.51
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.09
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.60
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.03
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.55
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.15
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.81
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.52
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.36
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.34
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	6.41
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	8.93
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	15.35
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.21
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.89
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.63
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.49
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.51
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	6.61
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	9.22
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	15.88

**03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar** (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.57
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.96
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.44
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.99
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.58
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.98
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.47
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.03
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.59
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.00
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.51
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.09
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.75
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.43
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.27
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.24
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.29
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	8.77
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	15.10
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.15
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.83
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.54
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.40
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.41
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.49
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.06
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	15.63

**03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar** (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.53
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.90
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.36
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.89
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.54
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.92
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.39
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.93
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.55
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.94
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.43
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.99
03 21 16 00-0126	LF	#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.61
03 21 16 00-0127	LF	#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.27
03 21 16 00-0128	LF	#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	5.03	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	6.05	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	8.47	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	14.62	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	2.05	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	2.69	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	3.38	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	4.21	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	5.20	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	6.25	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	8.76	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar .....	15.15	
<b>03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)</b>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.51	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.87	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.31	
03 21 16 00-0145 LF #6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.83	
03 21 16 00-0146 LF #3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.52	
03 21 16 00-0147 LF #4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.89	
03 21 16 00-0148 LF #5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.34	
03 21 16 00-0149 LF #6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.87	
03 21 16 00-0150 LF #3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.53	
03 21 16 00-0151 LF #4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	0.91	
03 21 16 00-0152 LF #5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.38	
03 21 16 00-0153 LF #6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.93	
03 21 16 00-0154 LF #7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	2.54	
03 21 16 00-0155 LF #8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	3.20	
03 21 16 00-0156 LF #9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	3.99	
03 21 16 00-0157 LF #10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	4.93	
03 21 16 00-0158 LF #11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	5.94	
03 21 16 00-0159 LF #14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	8.32	
03 21 16 00-0160 LF #18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar .....	14.38	
03 21 16 00-0161 LF #6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	1.99	
03 21 16 00-0162 LF #7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	2.62	
03 21 16 00-0163 LF #8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	3.31	
03 21 16 00-0164 LF #9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	4.12	
03 21 16 00-0165 LF #10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	5.10	
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	6.14	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	8.61	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar .....	14.91	
<b>03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)</b>		
Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	2.79	
For Up To 12" Length, Deduct	-0.35	
For >12" To <24" Length, Deduct	-0.18	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	3.34	
For Up To 12" Length, Deduct	-0.53	
For >12" To <24" Length, Deduct	-0.27	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	4.10	
For Up To 12" Length, Deduct	-0.80	
For >12" To <24" Length, Deduct	-0.40	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	4.87	
For Up To 12" Length, Deduct	-1.06	
For >12" To <24" Length, Deduct	-0.53	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	6.03	
For Up To 12" Length, Deduct	-1.44	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	7.10	
For Up To 12" Length, Deduct	-1.77	
For >12" To <24" Length, Deduct	-0.89	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	8.45	
For Up To 12" Length, Deduct	-2.14	
For >12" To <24" Length, Deduct	-1.07	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel .....	10.14	
For Up To 12" Length, Deduct	-2.60	
For >12" To <24" Length, Deduct	-1.30	
<b>03 22 Fabric And Grid Reinforcing (03 20)</b>		
<b>03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)</b>		
Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
<b>03 22 11 00-0001 Welded Wire Fabric Placed In Floors Or Slabs Under 5 Tons (03 22 11)</b>		
Note: Includes bar chairs. Under 5 tons. ASTM A-185		
03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.67	
For >5 Ton, Deduct	-0.10	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 22</b>	<b>Fabric And Grid Reinforcing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.76	
			<i>For &gt;5 Ton, Deduct</i>	-0.12	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.86	
			<i>For &gt;5 Ton, Deduct</i>	-0.13	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.01	
			<i>For &gt;5 Ton, Deduct</i>	-0.15	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.79	
			<i>For &gt;5 Ton, Deduct</i>	-0.12	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.89	
			<i>For &gt;5 Ton, Deduct</i>	-0.13	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.10	
			<i>For &gt;5 Ton, Deduct</i>	-0.16	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.28	
			<i>For &gt;5 Ton, Deduct</i>	-0.18	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	1.17	
			<i>For &gt;5 Ton, Deduct</i>	-0.16	
<b>03 22 13</b>			<b>Galvanized Welded Wire Fabric Reinforcing</b> <sup>(03 22)</sup>		
<b>03 22 13 00-0001</b>			<b>Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs</b> <sup>(03 22 13)</sup>		
			Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.74	
			<i>For &gt;5 Ton, Deduct</i>	-0.11	
03 22 13 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.84	
			<i>For &gt;5 Ton, Deduct</i>	-0.12	
03 22 13 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.96	
			<i>For &gt;5 Ton, Deduct</i>	-0.14	
03 22 13 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.15	
			<i>For &gt;5 Ton, Deduct</i>	-0.16	
03 22 13 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.88	
			<i>For &gt;5 Ton, Deduct</i>	-0.13	
03 22 13 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.00	
			<i>For &gt;5 Ton, Deduct</i>	-0.14	
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.29	
			<i>For &gt;5 Ton, Deduct</i>	-0.17	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.50	
			<i>For &gt;5 Ton, Deduct</i>	-0.20	
<b>03 22 13 00-0010</b>			<b>Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns</b> <sup>(03 22 13)</sup>		
			Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	2.65	
			<i>For &gt;5 Ton, Deduct</i>	-0.42	
<b>03 22 16</b>			<b>Epoxy-Coated Welded Wire Fabric Reinforcing</b> <sup>(03 22)</sup>		
<b>03 22 16 00-0001</b>			<b>Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs</b> <sup>(03 22 16)</sup>		
			Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.73	
			<i>For &gt;5 Ton, Deduct</i>	-0.11	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.83	
			<i>For &gt;5 Ton, Deduct</i>	-0.12	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.95	
			<i>For &gt;5 Ton, Deduct</i>	-0.14	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.14	
			<i>For &gt;5 Ton, Deduct</i>	-0.16	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.87	
			<i>For &gt;5 Ton, Deduct</i>	-0.13	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.99	
			<i>For &gt;5 Ton, Deduct</i>	-0.14	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.26	
			<i>For &gt;5 Ton, Deduct</i>	-0.17	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.47	
			<i>For &gt;5 Ton, Deduct</i>	-0.20	

### 03 30 Cast-In-Place Concrete <sup>(03)</sup>

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

#### 03 30 53 Miscellaneous Cast-in-Place Concrete <sup>(03 30)</sup>

03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill <sup>(03 30 53)</sup>



<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Cast-In-Place Concrete</b>	<b>03 30</b>	
<b>Miscellaneous Cast-in-Place Concrete 03 30 53</b>		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0002 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks .....	223.29	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
<b>03 30 53 00-0003 Place Concrete Slurry (03 30 53)</b>		
03 30 53 00-0004 CY Direct Chute, Place Two Sack Cement, Concrete Slurry .....	173.15	
Note: Two 94# sack cement per CY.		
03 30 53 00-0005 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry .....	167.48	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
<b>03 30 53 00-0006 Hand Mix And Place Concrete (03 30 53)</b>		
03 30 53 00-0007 CF Hand Mix And Place Concrete .....	27.65	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.37	
For 2,500 PSI Concrete, Deduct	-0.18	
For 3,500 PSI Concrete, Add	0.34	
<b>03 31 Structural Concrete (03 30)</b>		
<b>03 31 13 Heavyweight Structural Concrete (03 31)</b>		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	7.12	
For 2,000 PSI Concrete, Deduct	-0.21	
For 2,500 PSI Concrete, Deduct	-0.10	
For 3,500 PSI Concrete, Add	0.07	
For 4,000 PSI Concrete, Add	0.24	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.73	
For >500 To 1,000, Add	1.88	
For >1,000 To 2,000, Add	1.04	
For >2,000 To 5,000, Add	0.52	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000 To 35,000, Deduct	-0.37	
For >35,000 To 50,000, Deduct	-0.55	
For >50,000 To 70,000, Deduct	-0.73	
For >70,000, Deduct	-0.91	
03 31 13 00-0004 SF 5" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	7.80	
For 2,000 PSI Concrete, Deduct	-0.24	
For 2,500 PSI Concrete, Deduct	-0.12	
For 3,500 PSI Concrete, Add	0.08	
For 4,000 PSI Concrete, Add	0.28	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.92	
For >500 To 1,000, Add	2.02	
For >1,000 To 2,000, Add	1.12	
For >2,000 To 5,000, Add	0.56	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000 To 35,000, Deduct	-0.41	
For >35,000 To 50,000, Deduct	-0.61	
For >50,000 To 70,000, Deduct	-0.80	
For >70,000, Deduct	-1.00	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	8.75	
			For 2,000 PSI Concrete, Deduct	-0.28	
			For 2,500 PSI Concrete, Deduct	-0.14	
			For 3,500 PSI Concrete, Add	0.10	
			For 4,000 PSI Concrete, Add	0.32	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.20	
			For >500 To 1,000, Add	2.22	
			For >1,000 To 2,000, Add	1.24	
			For >2,000 To 5,000, Add	0.62	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000 To 35,000, Deduct	-0.47	
			For >35,000 To 50,000, Deduct	-0.69	
			For >50,000 To 70,000, Deduct	-0.91	
			For >70,000, Deduct	-1.13	
03 31	13 00-0006	SF	7" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	9.69	
			For 2,000 PSI Concrete, Deduct	-0.32	
			For 2,500 PSI Concrete, Deduct	-0.16	
			For 3,500 PSI Concrete, Add	0.11	
			For 4,000 PSI Concrete, Add	0.37	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.45	
			For >500 To 1,000, Add	2.40	
			For >1,000 To 2,000, Add	1.35	
			For >2,000 To 5,000, Add	0.67	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000 To 35,000, Deduct	-0.54	
			For >35,000 To 50,000, Deduct	-0.78	
			For >50,000 To 70,000, Deduct	-1.02	
			For >70,000, Deduct	-1.26	
03 31	13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	10.46	
			For 2,000 PSI Concrete, Deduct	-0.35	
			For 2,500 PSI Concrete, Deduct	-0.18	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.41	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.66	
			For >500 To 1,000, Add	2.55	
			For >1,000 To 2,000, Add	1.44	
			For >2,000 To 5,000, Add	0.72	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000 To 35,000, Deduct	-0.59	
			For >35,000 To 50,000, Deduct	-0.85	
			For >50,000 To 70,000, Deduct	-1.11	
			For >70,000, Deduct	-1.37	
03 31	13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	12.47	
			For 2,000 PSI Concrete, Deduct	-0.44	
			For 2,500 PSI Concrete, Deduct	-0.22	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.52	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.19	
			For >500 To 1,000, Add	2.93	
			For >1,000 To 2,000, Add	1.67	
			For >2,000 To 5,000, Add	0.84	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000 To 35,000, Deduct	-0.72	
			For >35,000 To 50,000, Deduct	-1.04	
			For >50,000 To 70,000, Deduct	-1.35	
			For >70,000, Deduct	-1.66	
03 31	13 00-0009	SF	12" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	14.04	
			For 2,000 PSI Concrete, Deduct	-0.51	
			For 2,500 PSI Concrete, Deduct	-0.26	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.60	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.62	
			For >500 To 1,000, Add	3.24	
			For >1,000 To 2,000, Add	1.86	
			For >2,000 To 5,000, Add	0.93	
			For >10,000 To 20,000, Deduct	-0.48	
			For >20,000 To 35,000, Deduct	-0.83	
			For >35,000 To 50,000, Deduct	-1.18	
			For >50,000 To 70,000, Deduct	-1.53	
			For >70,000, Deduct	-1.88	

03 31 13 00-0010 Concrete Delivery And Placement (03 31 13)

Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.





<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small> Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps .....	261.67	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	41.07	
For >20 To 50, Add	15.40	
For >100 To 200, Deduct	-5.23	
For >200 To 400, Deduct	-10.47	
For >400, Deduct	-15.70	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps.....	206.27	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	18.91	
For >20 To 50, Add	7.09	
For >100 To 200, Deduct	-4.13	
For >200 To 400, Deduct	-8.25	
For >400, Deduct	-12.38	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps.....	217.25	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	18.00	
For >20 To 50, Add	6.75	
For >100 To 200, Deduct	-4.35	
For >200 To 400, Deduct	-8.69	
For >400, Deduct	-13.04	
03 31 13 00-0016 Place Concrete Continuous Footings <small>(03 31 13 00-0011)</small>		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings .....	250.26	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	36.50	
For >20 To 50, Add	13.69	
For >100 To 200, Deduct	-5.01	
For >200 To 400, Deduct	-10.01	
For >400, Deduct	-15.02	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings .....	201.01
	For 2,000 PSI Concrete, Deduct	-8.59
	For 2,500 PSI Concrete, Deduct	-4.29
	For 3,500 PSI Concrete, Add	7.95
	For 3,750 PSI Concrete, Add	10.81
	For 4,000 PSI Concrete, Add	13.67
	For 4,500 PSI Concrete, Add	15.90
	For 5,000 PSI Concrete, Add	18.12
	For 6,000 PSI Concrete, Add	42.93
	For 7,500 PSI Concrete, Add	106.60
	For White Cement Concrete, Add	19.08
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
	For High Early Strength, Type 3 ASTM C150, Add	15.90
	For Lightweight Aggregate, ASTM C330, Add	47.70
	For Up To 20, Add	16.81
	For >20 To 50, Add	6.30
	For >100 To 200, Deduct	-4.02
	For >200 To 400, Deduct	-8.04
	For >400, Deduct	-12.06
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings .....	212.25
	Note: Excludes pumping equipment.	
	For 2,000 PSI Concrete, Deduct	-9.30
	For 2,500 PSI Concrete, Deduct	-4.65
	For 3,500 PSI Concrete, Add	8.61
	For 3,750 PSI Concrete, Add	11.71
	For 4,000 PSI Concrete, Add	14.81
	For 4,500 PSI Concrete, Add	17.22
	For 5,000 PSI Concrete, Add	19.64
	For 6,000 PSI Concrete, Add	46.50
	For 7,500 PSI Concrete, Add	115.49
	For White Cement Concrete, Add	20.67
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39
	For High Early Strength, Type 3 ASTM C150, Add	17.22
	For Lightweight Aggregate, ASTM C330, Add	51.67
	For Up To 20, Add	16.00
	For >20 To 50, Add	6.00
	For >100 To 200, Deduct	-4.25
	For >200 To 400, Deduct	-8.49
	For >400, Deduct	-12.74
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011) .....	313.00
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings .....	313.00
	For 2,000 PSI Concrete, Deduct	-8.59
	For 2,500 PSI Concrete, Deduct	-4.29
	For 3,500 PSI Concrete, Add	7.95
	For 3,750 PSI Concrete, Add	10.81
	For 4,000 PSI Concrete, Add	13.67
	For 4,500 PSI Concrete, Add	15.90
	For 5,000 PSI Concrete, Add	18.12
	For 6,000 PSI Concrete, Add	42.93
	For 7,500 PSI Concrete, Add	106.60
	For White Cement Concrete, Add	19.08
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
	For High Early Strength, Type 3 ASTM C150, Add	15.90
	For Lightweight Aggregate, ASTM C330, Add	47.70
	For Up To 20, Add	61.60
	For >20 To 50, Add	23.10
	For >100 To 200, Deduct	-6.26
	For >200 To 400, Deduct	-12.52
	For >400, Deduct	-18.78
03 31 13 00-0022	CY Direct Chute, Place 3,000 PSI Concrete Spread Footings .....	229.89
	For 2,000 PSI Concrete, Deduct	-8.59
	For 2,500 PSI Concrete, Deduct	-4.29
	For 3,500 PSI Concrete, Add	7.95
	For 3,750 PSI Concrete, Add	10.81
	For 4,000 PSI Concrete, Add	13.67
	For 4,500 PSI Concrete, Add	15.90
	For 5,000 PSI Concrete, Add	18.12
	For 6,000 PSI Concrete, Add	42.93
	For 7,500 PSI Concrete, Add	106.60
	For White Cement Concrete, Add	19.08
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
	For High Early Strength, Type 3 ASTM C150, Add	15.90
	For Lightweight Aggregate, ASTM C330, Add	47.70
	For Up To 20, Add	28.36
	For >20 To 50, Add	10.64
	For >100 To 200, Deduct	-4.60
	For >200 To 400, Deduct	-9.20
	For >400, Deduct	-13.79



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings.....	239.77	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	27.01	
For >20 To 50, Add	10.13	
For >100 To 200, Deduct	-4.80	
For >200 To 400, Deduct	-9.59	
For >400, Deduct	-14.39	
<b>03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)</b>		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	186.37	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	10.95	
For >20 To 50, Add	4.11	
For >100 To 200, Deduct	-3.73	
For >200 To 400, Deduct	-7.45	
For >400, Deduct	-11.18	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	171.60	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	5.04	
For >20 To 50, Add	1.89	
For >100 To 200, Deduct	-3.43	
For >200 To 400, Deduct	-6.86	
For >400, Deduct	-10.30	
03 31 13 00-0027 CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	182.74	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	4.20	
For >20 To 50, Add	1.58	
For >100 To 200, Deduct	-3.65	
For >200 To 400, Deduct	-7.31	
For >400, Deduct	-10.96	
<b>03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)</b>		

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

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams .....	232.02
		For 2,000 PSI Concrete, Deduct	-8.59
		For 2,500 PSI Concrete, Deduct	-4.29
		For 3,500 PSI Concrete, Add	7.95
		For 3,750 PSI Concrete, Add	10.81
		For 4,000 PSI Concrete, Add	13.67
		For 4,500 PSI Concrete, Add	15.90
		For 5,000 PSI Concrete, Add	18.13
		For 6,000 PSI Concrete, Add	42.93
		For 7,500 PSI Concrete, Add	106.61
		For White Cement Concrete, Add	19.08
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
		For High Early Strength, Type 3 ASTM C150, Add	15.90
		For Lightweight Aggregate, ASTM C330, Add	47.70
		For Up To 20, Add	29.21
		For >20 To 50, Add	10.95
		For >100 To 200, Deduct	-4.64
		For >200 To 400, Deduct	-9.28
		For >400, Deduct	-13.92
03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams .....	192.60
		For 2,000 PSI Concrete, Deduct	-8.59
		For 2,500 PSI Concrete, Deduct	-4.29
		For 3,500 PSI Concrete, Add	7.95
		For 3,750 PSI Concrete, Add	10.81
		For 4,000 PSI Concrete, Add	13.67
		For 4,500 PSI Concrete, Add	15.90
		For 5,000 PSI Concrete, Add	18.12
		For 6,000 PSI Concrete, Add	42.93
		For 7,500 PSI Concrete, Add	106.60
		For White Cement Concrete, Add	19.08
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
		For High Early Strength, Type 3 ASTM C150, Add	15.90
		For Lightweight Aggregate, ASTM C330, Add	47.70
		For Up To 20, Add	13.44
		For >20 To 50, Add	5.04
		For >100 To 200, Deduct	-3.85
		For >200 To 400, Deduct	-7.70
		For >400, Deduct	-11.56
03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams .....	204.25
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.30
		For 2,500 PSI Concrete, Deduct	-4.65
		For 3,500 PSI Concrete, Add	8.61
		For 3,750 PSI Concrete, Add	11.71
		For 4,000 PSI Concrete, Add	14.81
		For 4,500 PSI Concrete, Add	17.22
		For 5,000 PSI Concrete, Add	19.64
		For 6,000 PSI Concrete, Add	46.50
		For 7,500 PSI Concrete, Add	115.49
		For White Cement Concrete, Add	20.67
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39
		For High Early Strength, Type 3 ASTM C150, Add	17.22
		For Lightweight Aggregate, ASTM C330, Add	51.67
		For Up To 20, Add	12.80
		For >20 To 50, Add	4.80
		For >100 To 200, Deduct	-4.09
		For >200 To 400, Deduct	-8.17
		For >400, Deduct	-12.26
03 31 13 00-0032		<b>Place Concrete Slab On Grade</b> <small>(03 31 13 00-0011)</small> .....	233.72
03 31 13 00-0033	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade .....	233.72
		For 2,000 PSI Concrete, Deduct	-8.59
		For 2,500 PSI Concrete, Deduct	-4.29
		For 3,500 PSI Concrete, Add	7.95
		For 3,750 PSI Concrete, Add	10.81
		For 4,000 PSI Concrete, Add	13.67
		For 4,500 PSI Concrete, Add	15.90
		For 5,000 PSI Concrete, Add	18.12
		For 6,000 PSI Concrete, Add	42.93
		For 7,500 PSI Concrete, Add	106.60
		For White Cement Concrete, Add	19.08
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
		For High Early Strength, Type 3 ASTM C150, Add	15.90
		For Lightweight Aggregate, ASTM C330, Add	47.70
		For Up To 20, Add	29.89
		For >20 To 50, Add	11.21
		For >100 To 200, Deduct	-4.67
		For >200 To 400, Deduct	-9.35
		For >400, Deduct	-14.02



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade .....	215.70	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	22.68	
For >20 To 50, Add	8.51	
For >100 To 200, Deduct	-4.31	
For >200 To 400, Deduct	-8.63	
For >400, Deduct	-12.94	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade .....	193.40	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	13.76	
For >20 To 50, Add	5.16	
For >100 To 200, Deduct	-3.87	
For >200 To 400, Deduct	-7.74	
For >400, Deduct	-11.60	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	185.09	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	10.44	
For >20 To 50, Add	3.92	
For >100 To 200, Deduct	-3.70	
For >200 To 400, Deduct	-7.40	
For >400, Deduct	-11.11	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade .....	200.91	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	11.47	
For >20 To 50, Add	4.30	
For >100 To 200, Deduct	-4.02	
For >200 To 400, Deduct	-8.04	
For >400, Deduct	-12.05	



<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0038	CY	>6"	By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	194.00	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.30	
			For 2,500 PSI Concrete, Deduct	-4.65	
			For 3,500 PSI Concrete, Add	8.61	
			For 3,750 PSI Concrete, Add	11.71	
			For 4,000 PSI Concrete, Add	14.81	
			For 4,500 PSI Concrete, Add	17.22	
			For 5,000 PSI Concrete, Add	19.64	
			For 6,000 PSI Concrete, Add	46.50	
			For 7,500 PSI Concrete, Add	115.49	
			For White Cement Concrete, Add	20.67	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
			For High Early Strength, Type 3 ASTM C150, Add	17.22	
			For Lightweight Aggregate, ASTM C330, Add	51.67	
			For Up To 20, Add	8.70	
			For >20 To 50, Add	3.26	
			For >100 To 200, Deduct	-3.88	
			For >200 To 400, Deduct	-7.76	
			For >400, Deduct	-11.64	
03 31 13 00-0039			<b>Place Concrete Duct Bank</b> (03 31 13 00-0011)		
03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank.....	187.46		
			For 2,000 PSI Concrete, Deduct	-8.59	
			For 2,500 PSI Concrete, Deduct	-4.29	
			For 3,500 PSI Concrete, Add	7.95	
			For 3,750 PSI Concrete, Add	10.81	
			For 4,000 PSI Concrete, Add	13.67	
			For 4,500 PSI Concrete, Add	15.90	
			For 5,000 PSI Concrete, Add	18.12	
			For 6,000 PSI Concrete, Add	42.93	
			For 7,500 PSI Concrete, Add	106.60	
			For White Cement Concrete, Add	19.08	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
			For High Early Strength, Type 3 ASTM C150, Add	15.90	
			For Lightweight Aggregate, ASTM C330, Add	47.70	
			For Up To 20, Add	11.39	
			For >20 To 50, Add	4.27	
			For >100 To 200, Deduct	-3.75	
			For >200 To 400, Deduct	-7.50	
			For >400, Deduct	-11.25	
03 31 13 00-0041			<b>Place Concrete Stairs</b> (03 31 13 00-0011)		
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	495.21		
			For 2,000 PSI Concrete, Deduct	-8.59	
			For 2,500 PSI Concrete, Deduct	-4.29	
			For 3,500 PSI Concrete, Add	7.95	
			For 3,750 PSI Concrete, Add	10.81	
			For 4,000 PSI Concrete, Add	13.67	
			For 4,500 PSI Concrete, Add	15.90	
			For 5,000 PSI Concrete, Add	18.13	
			For 6,000 PSI Concrete, Add	42.93	
			For 7,500 PSI Concrete, Add	106.61	
			For White Cement Concrete, Add	19.08	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
			For High Early Strength, Type 3 ASTM C150, Add	15.90	
			For Lightweight Aggregate, ASTM C330, Add	47.70	
			For Up To 20, Add	134.48	
			For >20 To 50, Add	50.43	
			For >100 To 200, Deduct	-9.90	
			For >200 To 400, Deduct	-19.81	
			For >400, Deduct	-29.71	
03 31 13 00-0043	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	313.80		
			For 2,000 PSI Concrete, Deduct	-8.59	
			For 2,500 PSI Concrete, Deduct	-4.29	
			For 3,500 PSI Concrete, Add	7.95	
			For 3,750 PSI Concrete, Add	10.81	
			For 4,000 PSI Concrete, Add	13.67	
			For 4,500 PSI Concrete, Add	15.90	
			For 5,000 PSI Concrete, Add	18.12	
			For 6,000 PSI Concrete, Add	42.93	
			For 7,500 PSI Concrete, Add	106.60	
			For White Cement Concrete, Add	19.08	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
			For High Early Strength, Type 3 ASTM C150, Add	15.90	
			For Lightweight Aggregate, ASTM C330, Add	47.70	
			For Up To 20, Add	61.92	
			For >20 To 50, Add	23.22	
			For >100 To 200, Deduct	-6.28	
			For >200 To 400, Deduct	-12.55	
			For >400, Deduct	-18.83	



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0044 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs .....301.27 Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	51.61	
For >20 To 50, Add	19.35	
For >100 To 200, Deduct	-6.03	
For >200 To 400, Deduct	-12.05	
For >400, Deduct	-18.08	
<b>03 31 13 00-0045 Place Concrete Superstructure By Method Indicated</b> (03 31 13 00-0010) See CSI section 03 37 16 00-0001 for concrete pump truck.		
<b>03 31 13 00-0046 Place Elevated Concrete Beams</b> (03 31 13 00-0045)		
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams .....341.51		
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	73.01	
For >20 To 50, Add	27.38	
For >100 To 200, Deduct	-6.83	
For >200 To 400, Deduct	-13.66	
For >400, Deduct	-20.49	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams .....252.27 Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	32.01	
For >20 To 50, Add	12.00	
For >100 To 200, Deduct	-5.05	
For >200 To 400, Deduct	-10.09	
For >400, Deduct	-15.14	
<b>03 31 13 00-0049 Place Elevated Concrete Slab</b> (03 31 13 00-0045)		
03 31 13 00-0050 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....244.93		
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	34.38	
For >20 To 50, Add	12.89	
For >100 To 200, Deduct	-4.90	
For >200 To 400, Deduct	-9.80	
For >400, Deduct	-14.70	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0051	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....	224.19
		<i>For 2,000 PSI Concrete, Deduct</i>	-8.59
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.29
		<i>For 3,500 PSI Concrete, Add</i>	7.95
		<i>For 3,750 PSI Concrete, Add</i>	10.81
		<i>For 4,000 PSI Concrete, Add</i>	13.67
		<i>For 4,500 PSI Concrete, Add</i>	15.90
		<i>For 5,000 PSI Concrete, Add</i>	18.12
		<i>For 6,000 PSI Concrete, Add</i>	42.93
		<i>For 7,500 PSI Concrete, Add</i>	106.60
		<i>For White Cement Concrete, Add</i>	19.08
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	20.67
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	15.90
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	47.70
		<i>For Up To 20, Add</i>	26.08
		<i>For &gt;20 To 50, Add</i>	9.78
		<i>For &gt;100 To 200, Deduct</i>	-4.48
		<i>For &gt;200 To 400, Deduct</i>	-8.97
		<i>For &gt;400, Deduct</i>	-13.45
03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab .....	209.92
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
		<i>For 3,500 PSI Concrete, Add</i>	8.61
		<i>For 3,750 PSI Concrete, Add</i>	11.71
		<i>For 4,000 PSI Concrete, Add</i>	14.81
		<i>For 4,500 PSI Concrete, Add</i>	17.22
		<i>For 5,000 PSI Concrete, Add</i>	19.64
		<i>For 6,000 PSI Concrete, Add</i>	46.50
		<i>For 7,500 PSI Concrete, Add</i>	115.49
		<i>For White Cement Concrete, Add</i>	20.67
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
		<i>For Up To 20, Add</i>	15.07
		<i>For &gt;20 To 50, Add</i>	5.65
		<i>For &gt;100 To 200, Deduct</i>	-4.20
		<i>For &gt;200 To 400, Deduct</i>	-8.40
		<i>For &gt;400, Deduct</i>	-12.60
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	200.83
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
		<i>For 3,500 PSI Concrete, Add</i>	8.61
		<i>For 3,750 PSI Concrete, Add</i>	11.71
		<i>For 4,000 PSI Concrete, Add</i>	14.81
		<i>For 4,500 PSI Concrete, Add</i>	17.22
		<i>For 5,000 PSI Concrete, Add</i>	19.64
		<i>For 6,000 PSI Concrete, Add</i>	46.50
		<i>For 7,500 PSI Concrete, Add</i>	115.49
		<i>For White Cement Concrete, Add</i>	20.67
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
		<i>For Up To 20, Add</i>	11.44
		<i>For &gt;20 To 50, Add</i>	4.29
		<i>For &gt;100 To 200, Deduct</i>	-4.02
		<i>For &gt;200 To 400, Deduct</i>	-8.03
		<i>For &gt;400, Deduct</i>	-12.05
<b>03 31 13 00-0054</b>		<b>Place Concrete Columns</b> <small>(03 31 13 00-0045)</small>	
03 31 13 00-0055	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	356.13
		<i>For 2,000 PSI Concrete, Deduct</i>	-8.59
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.29
		<i>For 3,500 PSI Concrete, Add</i>	7.95
		<i>For 3,750 PSI Concrete, Add</i>	10.81
		<i>For 4,000 PSI Concrete, Add</i>	13.67
		<i>For 4,500 PSI Concrete, Add</i>	15.90
		<i>For 5,000 PSI Concrete, Add</i>	18.13
		<i>For 6,000 PSI Concrete, Add</i>	42.93
		<i>For 7,500 PSI Concrete, Add</i>	106.61
		<i>For White Cement Concrete, Add</i>	19.08
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	20.67
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	15.90
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	47.70
		<i>For Up To 20, Add</i>	78.85
		<i>For &gt;20 To 50, Add</i>	29.57
		<i>For &gt;100 To 200, Deduct</i>	-7.12
		<i>For &gt;200 To 400, Deduct</i>	-14.25
		<i>For &gt;400, Deduct</i>	-21.37



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0056 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	302.28	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	57.32	
For >20 To 50, Add	21.49	
For >100 To 200, Deduct	-6.05	
For >200 To 400, Deduct	-12.09	
For >400, Deduct	-18.14	
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	263.76	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	41.91	
For >20 To 50, Add	15.72	
For >100 To 200, Deduct	-5.28	
For >200 To 400, Deduct	-10.55	
For >400, Deduct	-15.83	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	246.62	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	35.05	
For >20 To 50, Add	13.14	
For >100 To 200, Deduct	-4.93	
For >200 To 400, Deduct	-9.86	
For >400, Deduct	-14.80	
03 31 13 00-0059 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....	258.68	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	34.58	
For >20 To 50, Add	12.97	
For >100 To 200, Deduct	-5.17	
For >200 To 400, Deduct	-10.35	
For >400, Deduct	-15.52	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0060	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	235.07
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.30
		For 2,500 PSI Concrete, Deduct	-4.65
		For 3,500 PSI Concrete, Add	8.61
		For 3,750 PSI Concrete, Add	11.71
		For 4,000 PSI Concrete, Add	14.81
		For 4,500 PSI Concrete, Add	17.22
		For 5,000 PSI Concrete, Add	19.64
		For 6,000 PSI Concrete, Add	46.50
		For 7,500 PSI Concrete, Add	115.49
		For White Cement Concrete, Add	20.67
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39
		For High Early Strength, Type 3 ASTM C150, Add	17.22
		For Lightweight Aggregate, ASTM C330, Add	51.67
		For Up To 20, Add	25.13
		For >20 To 50, Add	9.42
		For >100 To 200, Deduct	-4.70
		For >200 To 400, Deduct	-9.40
		For >400, Deduct	-14.10
03 31 13 00-0061	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	218.18
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.30
		For 2,500 PSI Concrete, Deduct	-4.65
		For 3,500 PSI Concrete, Add	8.61
		For 3,750 PSI Concrete, Add	11.71
		For 4,000 PSI Concrete, Add	14.81
		For 4,500 PSI Concrete, Add	17.22
		For 5,000 PSI Concrete, Add	19.64
		For 6,000 PSI Concrete, Add	46.50
		For 7,500 PSI Concrete, Add	115.49
		For White Cement Concrete, Add	20.67
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39
		For High Early Strength, Type 3 ASTM C150, Add	17.22
		For Lightweight Aggregate, ASTM C330, Add	51.67
		For Up To 20, Add	18.38
		For >20 To 50, Add	6.89
		For >100 To 200, Deduct	-4.36
		For >200 To 400, Deduct	-8.73
		For >400, Deduct	-13.09
03 31 13 00-0062	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	210.65
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.30
		For 2,500 PSI Concrete, Deduct	-4.65
		For 3,500 PSI Concrete, Add	8.61
		For 3,750 PSI Concrete, Add	11.71
		For 4,000 PSI Concrete, Add	14.81
		For 4,500 PSI Concrete, Add	17.22
		For 5,000 PSI Concrete, Add	19.64
		For 6,000 PSI Concrete, Add	46.50
		For 7,500 PSI Concrete, Add	115.49
		For White Cement Concrete, Add	20.67
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39
		For High Early Strength, Type 3 ASTM C150, Add	17.22
		For Lightweight Aggregate, ASTM C330, Add	51.67
		For Up To 20, Add	15.36
		For >20 To 50, Add	5.76
		For >100 To 200, Deduct	-4.21
		For >200 To 400, Deduct	-8.43
		For >400, Deduct	-12.64
03 31 13 00-0063		<b>Place Concrete Walls</b> <small>(03 31 13 00-0045)</small>	
03 31 13 00-0064	CY	8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	343.80
		For 2,000 PSI Concrete, Deduct	-8.59
		For 2,500 PSI Concrete, Deduct	-4.29
		For 3,500 PSI Concrete, Add	7.95
		For 3,750 PSI Concrete, Add	10.81
		For 4,000 PSI Concrete, Add	13.67
		For 4,500 PSI Concrete, Add	15.90
		For 5,000 PSI Concrete, Add	18.12
		For 6,000 PSI Concrete, Add	42.93
		For 7,500 PSI Concrete, Add	106.60
		For White Cement Concrete, Add	19.08
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67
		For High Early Strength, Type 3 ASTM C150, Add	15.90
		For Lightweight Aggregate, ASTM C330, Add	47.70
		For Up To 20, Add	73.92
		For >20 To 50, Add	27.72
		For >100 To 200, Deduct	-6.88
		For >200 To 400, Deduct	-13.75
		For >400, Deduct	-20.63





<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0065 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	328.48	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	67.80	
For >20 To 50, Add	25.42	
For >100 To 200, Deduct	-6.57	
For >200 To 400, Deduct	-13.14	
For >400, Deduct	-19.71	
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	288.36	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	51.75	
For >20 To 50, Add	19.41	
For >100 To 200, Deduct	-5.77	
For >200 To 400, Deduct	-11.53	
For >400, Deduct	-17.30	
03 31 13 00-0067 CY 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	244.08	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	34.04	
For >20 To 50, Add	12.76	
For >100 To 200, Deduct	-4.88	
For >200 To 400, Deduct	-9.76	
For >400, Deduct	-14.64	
03 31 13 00-0068 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	227.05	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	27.22	
For >20 To 50, Add	10.21	
For >100 To 200, Deduct	-4.54	
For >200 To 400, Deduct	-9.08	
For >400, Deduct	-13.62	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0069	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	218.55
	<i>For 2,000 PSI Concrete, Deduct</i>	-8.59
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.29
	<i>For 3,500 PSI Concrete, Add</i>	7.95
	<i>For 3,750 PSI Concrete, Add</i>	10.81
	<i>For 4,000 PSI Concrete, Add</i>	13.67
	<i>For 4,500 PSI Concrete, Add</i>	15.90
	<i>For 5,000 PSI Concrete, Add</i>	18.12
	<i>For 6,000 PSI Concrete, Add</i>	42.93
	<i>For 7,500 PSI Concrete, Add</i>	106.60
	<i>For White Cement Concrete, Add</i>	19.08
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	20.67
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	15.90
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	47.70
	<i>For Up To 20, Add</i>	23.82
	<i>For &gt;20 To 50, Add</i>	8.93
	<i>For &gt;100 To 200, Deduct</i>	-4.37
	<i>For &gt;200 To 400, Deduct</i>	-8.74
	<i>For &gt;400, Deduct</i>	-13.11
03 31 13 00-0070	CY 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	253.27
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
	<i>For 3,500 PSI Concrete, Add</i>	8.61
	<i>For 3,750 PSI Concrete, Add</i>	11.71
	<i>For 4,000 PSI Concrete, Add</i>	14.81
	<i>For 4,500 PSI Concrete, Add</i>	17.22
	<i>For 5,000 PSI Concrete, Add</i>	19.64
	<i>For 6,000 PSI Concrete, Add</i>	46.50
	<i>For 7,500 PSI Concrete, Add</i>	115.49
	<i>For White Cement Concrete, Add</i>	20.67
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
	<i>For Up To 20, Add</i>	32.41
	<i>For &gt;20 To 50, Add</i>	12.15
	<i>For &gt;100 To 200, Deduct</i>	-5.07
	<i>For &gt;200 To 400, Deduct</i>	-10.13
	<i>For &gt;400, Deduct</i>	-15.20
03 31 13 00-0071	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	237.06
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
	<i>For 3,500 PSI Concrete, Add</i>	8.61
	<i>For 3,750 PSI Concrete, Add</i>	11.71
	<i>For 4,000 PSI Concrete, Add</i>	14.81
	<i>For 4,500 PSI Concrete, Add</i>	17.22
	<i>For 5,000 PSI Concrete, Add</i>	19.64
	<i>For 6,000 PSI Concrete, Add</i>	46.50
	<i>For 7,500 PSI Concrete, Add</i>	115.49
	<i>For White Cement Concrete, Add</i>	20.67
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
	<i>For Up To 20, Add</i>	25.93
	<i>For &gt;20 To 50, Add</i>	9.72
	<i>For &gt;100 To 200, Deduct</i>	-4.74
	<i>For &gt;200 To 400, Deduct</i>	-9.48
	<i>For &gt;400, Deduct</i>	-14.22
03 31 13 00-0072	CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	228.97
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
	<i>For 3,500 PSI Concrete, Add</i>	8.61
	<i>For 3,750 PSI Concrete, Add</i>	11.71
	<i>For 4,000 PSI Concrete, Add</i>	14.81
	<i>For 4,500 PSI Concrete, Add</i>	17.22
	<i>For 5,000 PSI Concrete, Add</i>	19.64
	<i>For 6,000 PSI Concrete, Add</i>	46.50
	<i>For 7,500 PSI Concrete, Add</i>	115.49
	<i>For White Cement Concrete, Add</i>	20.67
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
	<i>For Up To 20, Add</i>	22.69
	<i>For &gt;20 To 50, Add</i>	8.51
	<i>For &gt;100 To 200, Deduct</i>	-4.58
	<i>For &gt;200 To 400, Deduct</i>	-9.16
	<i>For &gt;400, Deduct</i>	-13.74

03 31 13 00-0073 Place Elevated Concrete Stairs (03 31 13 00-0045)



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0074 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs.....	532.61	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.12	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.60	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	149.45	
For >20 To 50, Add	56.04	
For >100 To 200, Deduct	-10.65	
For >200 To 400, Deduct	-21.30	
For >400, Deduct	-31.96	
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	331.01	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	68.80	
For >20 To 50, Add	25.80	
For >100 To 200, Deduct	-6.62	
For >200 To 400, Deduct	-13.24	
For >400, Deduct	-19.86	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	315.58	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.30	
For 2,500 PSI Concrete, Deduct	-4.65	
For 3,500 PSI Concrete, Add	8.61	
For 3,750 PSI Concrete, Add	11.71	
For 4,000 PSI Concrete, Add	14.81	
For 4,500 PSI Concrete, Add	17.22	
For 5,000 PSI Concrete, Add	19.64	
For 6,000 PSI Concrete, Add	46.50	
For 7,500 PSI Concrete, Add	115.49	
For White Cement Concrete, Add	20.67	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.39	
For High Early Strength, Type 3 ASTM C150, Add	17.22	
For Lightweight Aggregate, ASTM C330, Add	51.67	
For Up To 20, Add	57.34	
For >20 To 50, Add	21.50	
For >100 To 200, Deduct	-6.31	
For >200 To 400, Deduct	-12.62	
For >400, Deduct	-18.93	
<b>03 31 13 00-0077 Place Concrete Coping (03 31 13 00-0045)</b>		
03 31 13 00-0078 CY Crane And Bucket, Place 3,000 PSI Concrete Coping .....	545.53	
For 2,000 PSI Concrete, Deduct	-8.59	
For 2,500 PSI Concrete, Deduct	-4.29	
For 3,500 PSI Concrete, Add	7.95	
For 3,750 PSI Concrete, Add	10.81	
For 4,000 PSI Concrete, Add	13.67	
For 4,500 PSI Concrete, Add	15.90	
For 5,000 PSI Concrete, Add	18.13	
For 6,000 PSI Concrete, Add	42.93	
For 7,500 PSI Concrete, Add	106.61	
For White Cement Concrete, Add	19.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.67	
For High Early Strength, Type 3 ASTM C150, Add	15.90	
For Lightweight Aggregate, ASTM C330, Add	47.70	
For Up To 20, Add	154.61	
For >20 To 50, Add	57.98	
For >100 To 200, Deduct	-10.91	
For >200 To 400, Deduct	-21.82	
For >400, Deduct	-32.73	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0079	CY	Direct Chute, Place 3,000 PSI Concrete Coping.....	329.85
		<i>For 2,000 PSI Concrete, Deduct</i>	-8.59
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.29
		<i>For 3,500 PSI Concrete, Add</i>	7.95
		<i>For 3,750 PSI Concrete, Add</i>	10.81
		<i>For 4,000 PSI Concrete, Add</i>	13.67
		<i>For 4,500 PSI Concrete, Add</i>	15.90
		<i>For 5,000 PSI Concrete, Add</i>	18.13
		<i>For 6,000 PSI Concrete, Add</i>	42.93
		<i>For 7,500 PSI Concrete, Add</i>	106.61
		<i>For White Cement Concrete, Add</i>	19.08
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	20.67
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	15.90
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	47.70
		<i>For Up To 20, Add</i>	68.34
		<i>For &gt;20 To 50, Add</i>	25.63
		<i>For &gt;100 To 200, Deduct</i>	-6.60
		<i>For &gt;200 To 400, Deduct</i>	-13.19
		<i>For &gt;400, Deduct</i>	-19.79
03 31 13 00-0080	CY	Concrete Pump, Place 3,000 PSI Concrete Coping.....	431.03
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.30
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.65
		<i>For 3,500 PSI Concrete, Add</i>	8.61
		<i>For 3,750 PSI Concrete, Add</i>	11.71
		<i>For 4,000 PSI Concrete, Add</i>	14.81
		<i>For 4,500 PSI Concrete, Add</i>	17.22
		<i>For 5,000 PSI Concrete, Add</i>	19.64
		<i>For 6,000 PSI Concrete, Add</i>	46.50
		<i>For 7,500 PSI Concrete, Add</i>	115.49
		<i>For White Cement Concrete, Add</i>	20.67
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.39
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	17.22
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	51.67
		<i>For Up To 20, Add</i>	103.52
		<i>For &gt;20 To 50, Add</i>	38.82
		<i>For &gt;100 To 200, Deduct</i>	-8.62
		<i>For &gt;200 To 400, Deduct</i>	-17.24
		<i>For &gt;400, Deduct</i>	-25.86
<b>03 31 13 00-0081</b>		<b>Concrete Carts</b> <small>(03 31 13 00-0010)</small>	
		Note: Used to place concrete were necessary.	
03 31 13 00-0082	CY	50' Haul, Non Motorized, Concrete Buggy .....	20.63
03 31 13 00-0083	CY	150' Haul, Non Motorized, Concrete Buggy .....	27.62
03 31 13 00-0084	CY	250' Haul, Non Motorized, Concrete Buggy .....	36.84
03 31 13 00-0085	CY	50' Haul, Motorized, Concrete Buggy .....	9.15
03 31 13 00-0086	CY	150' Haul, Motorized, Concrete Buggy .....	12.26
03 31 13 00-0087	CY	250' Haul, Motorized, Concrete Buggy .....	16.35
<b>03 31 13 00-0088</b>		<b>Delivery Fee For Small Purchases</b> <small>(03 31 13)</small>	
03 31 13 00-0089	CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY.....	19.06
		Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	
<b>03 31 13 00-0090</b>		<b>Delivery Fee For Concrete, Per Truck Load</b> <small>(03 31 13)</small>	
03 31 13 00-0091	EA	Concrete Delivery Fee, Per Truck.....	40.00
		Note: To be added to all concrete leaving concrete yard	
<b>03 31 13 00-0092</b>		<b>Equipment Pads</b> <small>(03 31 13)</small>	
<b>03 31 13 00-0093</b>		<b>Small Concrete Equipment Housekeeping Pad Assemblies</b> <small>(03 31 13 00-0092)</small>	
		Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project.	
03 31 13 00-0094	SF	4" Equipment Pad With Welded Wire Reinforcement .....	16.09
03 31 13 00-0095	SF	4" Equipment Pad With Rebar .....	19.77
03 31 13 00-0096	SF	6" Equipment Pad With Rebar .....	25.01
03 31 13 00-0097	SF	8" Equipment Pad With Rebar .....	31.53
<b>03 31 16</b>		<b>Lightweight Structural Concrete</b> <small>(03 31)</small>	
<b>03 31 16 00-0001</b>		<b>Low Density Cellular / Foam Concrete Fill</b> <small>(03 31 16)</small>	
03 31 16 00-0002	CY	Lightweight Low Density Cellular/Foam Concrete.....	232.72

**03 35 Concrete Finishing** (03 30)

**03 35 13 High-Tolerance Concrete Floor Finishing** (03 35)

**03 35 13 00-0001 Floor Finishes** (03 35 13)

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



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 13 00-0002 SF Screed, Concrete Floor Finish .....	0.86	
For Up To 100, Add	1.72	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.09	
03 35 13 00-0003 SF Darby, Concrete Floor Finish .....	1.04	
For Up To 100, Add	2.08	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.26	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 13 00-0004 SF Broom, Concrete Floor Finish .....	1.14	
For Up To 100, Add	2.28	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.29	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.11	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish .....	1.32	
For Up To 100, Add	2.64	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.33	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.13	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish .....	1.50	
For Up To 100, Add	3.00	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.38	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.15	
<b>03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)</b>		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener .....	1.09	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener .....	1.70	
03 35 16 00-0004 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener .....	1.03	
03 35 16 00-0005 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener .....	1.26	
<b>03 35 19 Colored Concrete Finishing (03 35)</b>		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent .....	0.43	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent .....	2.23	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproofoer.....	0.27	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproofoer.....	0.28	
<b>03 35 23 Exposed Aggregate Concrete Finishing (03 35)</b>		
03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish .....	2.86	
<b>03 35 26 Grooved Concrete Surface Finishing (03 35)</b>		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing.....	3.46	
<b>03 35 29 Tooled Concrete Finishing (03 35)</b>		
03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork.....	14.37	
03 35 29 00-0003 Marblecrete Finishes (03 35 29)		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish .....	38.05	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish .....	50.97	
<b>03 35 33 Stamped Concrete Finishing (03 35)</b>		
03 35 33 00-0001 Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish .....	3.41	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish .....	3.09	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish .....	2.95	
<b>03 35 63 Slip-Resistant Floor Finishing (03 35)</b>		





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>03 35 63 00-0001</b>	<b>Slip-Resistant Floor Finishing</b> (03 35 63)	
03 35 63 00-0002	SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF .....	1.21
	For Up To 100, Add	1.64
	For >100 To 250, Add	0.41
	For >250 To 500, Add	0.21
	For >5,000 To 10,000, Deduct	-0.04
	For >10,000, Deduct	-0.08
03 35 63 00-0003	SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF .....	1.11
	For Up To 100, Add	1.64
	For >100 To 250, Add	0.41
	For >250 To 500, Add	0.21
	For >5,000 To 10,000, Deduct	-0.04
	For >10,000, Deduct	-0.08
<b>03 35 66</b>	<b>Acid Etch Floor Finishing</b> (03 35)	
<b>03 35 66 00-0001</b>	<b>Acid Etch Floor</b> (03 35 66)	
03 35 66 00-0002	SF Concrete Floor Finishes, Etch With Acid And Rinse .....	0.90
	For Up To 100, Add	0.80
	For >100 To 250, Add	0.20
	For >250 To 500, Add	0.10
	For >5,000 To 10,000, Deduct	-0.02
	For >10,000, Deduct	-0.04
<b>03 35 83</b>	<b>Concrete Wall Finishing</b> (03 35)	
<b>03 35 83 00-0001</b>	<b>Wall Finishes</b> (03 35 83)	
03 35 83 00-0002	SF Burlap Rub With Grout, New Concrete Wall Finishes .....	1.53
	For Up To 100, Add	2.88
	For >100 To 250, Add	0.72
	For >250 To 500, Add	0.36
	For >5,000 To 10,000, Deduct	-0.07
	For >10,000, Deduct	-0.14
03 35 83 00-0003	SF 1/16" Float Finish, New Concrete Wall Finishes .....	2.31
	For Up To 100, Add	4.34
	For >100 To 250, Add	1.09
	For >250 To 500, Add	0.54
	For >5,000 To 10,000, Deduct	-0.11
	For >10,000, Deduct	-0.22
03 35 83 00-0004	SF Etch With Acid And Rinse, New Concrete Wall Finishes .....	0.98
	For Up To 100, Add	0.96
	For >100 To 250, Add	0.24
	For >250 To 500, Add	0.12
	For >5,000 To 10,000, Deduct	-0.02
	For >10,000, Deduct	-0.05
03 35 83 00-0005	SF Bush Hammer Green Concrete, New Concrete Wall Finishes .....	4.63
	For Up To 100, Add	9.16
	For >100 To 250, Add	2.29
	For >250 To 500, Add	1.15
	For >5,000 To 10,000, Deduct	-0.23
	For >10,000, Deduct	-0.46
03 35 83 00-0006	SF Bush Hammer Cured Concrete, New Concrete Wall Finishes .....	7.18
	For Up To 100, Add	14.18
	For >100 To 250, Add	3.55
	For >250 To 500, Add	1.77
	For >5,000 To 10,000, Deduct	-0.35
	For >10,000, Deduct	-0.71
03 35 83 00-0007	SF Break Ties And Patch, New Concrete Wall Finishes .....	0.89
	For Up To 100, Add	1.56
	For >100 To 250, Add	0.39
	For >250 To 500, Add	0.20
	For >5,000 To 10,000, Deduct	-0.04
	For >10,000, Deduct	-0.08
03 35 83 00-0008	SF Carborundum Dry Rub, New Concrete Wall Finishes .....	3.00
	For Up To 100, Add	5.78
	For >100 To 250, Add	1.45
	For >250 To 500, Add	0.72
	For >5,000 To 10,000, Deduct	-0.14
	For >10,000, Deduct	-0.29
03 35 83 00-0009	SF Carborundum Wet Rub, New Concrete Wall Finishes .....	4.56
	For Up To 100, Add	8.90
	For >100 To 250, Add	2.23
	For >250 To 500, Add	1.11
	For >5,000 To 10,000, Deduct	-0.22
	For >10,000, Deduct	-0.45
03 35 83 00-0010	SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes .....	2.85
	For Up To 100, Add	4.90
	For >100 To 250, Add	1.23
	For >250 To 500, Add	0.61
	For >5,000 To 10,000, Deduct	-0.12
	For >10,000, Deduct	-0.25



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes .....	7.98	
For Up To 100, Add	14.36	
For >100 To 250, Add	3.59	
For >250 To 500, Add	1.80	
For >5,000 To 10,000, Deduct	-0.36	
For >10,000, Deduct	-0.72	

**03 37 Specialty Placed Concrete** (03 30)

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

**03 37 13 Shotcrete** (03 37)

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

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced .....	4.72	
For Up To 25, Add	0.72	
For >25 To 50, Add	0.40	
For >50 To 150, Add	0.13	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced .....	9.11	
For Up To 25, Add	1.36	
For >25 To 50, Add	0.76	
For >50 To 150, Add	0.23	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced .....	13.21	
For Up To 25, Add	1.93	
For >25 To 50, Add	1.07	
For >50 To 150, Add	0.30	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced .....	17.08	
For Up To 25, Add	2.44	
For >25 To 50, Add	1.34	
For >50 To 150, Add	0.37	
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced .....	24.22	
For Up To 25, Add	3.31	
For >25 To 50, Add	1.80	
For >50 To 150, Add	0.44	

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

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

03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	4.39	
For Radius Or Irregular Surface, Add	0.92	
For Up To 25, Add	0.79	
For >25 To 50, Add	0.45	
For >50 To 150, Add	0.17	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	8.29	
For Radius Or Irregular Surface, Add	1.66	
For Up To 25, Add	1.45	
For >25 To 50, Add	0.83	
For >50 To 150, Add	0.31	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	11.82	
For Radius Or Irregular Surface, Add	2.24	
For Up To 25, Add	2.02	
For >25 To 50, Add	1.15	
For >50 To 150, Add	0.42	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	15.01	
For Radius Or Irregular Surface, Add	2.68	
For Up To 25, Add	2.51	
For >25 To 50, Add	1.42	
For >50 To 150, Add	0.50	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	17.93	
For Radius Or Irregular Surface, Add	3.02	
For Up To 25, Add	2.93	
For >25 To 50, Add	1.65	
For >50 To 150, Add	0.57	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	20.60	
For Radius Or Irregular Surface, Add	3.26	
For Up To 25, Add	3.28	
For >25 To 50, Add	1.85	
For >50 To 150, Add	0.61	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	26.39	
For Radius Or Irregular Surface, Add	3.91	
For Up To 25, Add	4.11	
For >25 To 50, Add	2.30	
For >50 To 150, Add	0.73	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	31.76	
For Radius Or Irregular Surface, Add	4.40	
For Up To 25, Add	4.83	
For >25 To 50, Add	2.69	
For >50 To 150, Add	0.83	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	36.79	
For Radius Or Irregular Surface, Add	4.75	
For Up To 25, Add	5.46	
For >25 To 50, Add	3.03	
For >50 To 150, Add	0.89	

**03 37 16 Pumped Concrete** (03 37)

<b>03</b>	<b>03 Concrete</b>
	<b>03 30 Cast-In-Place Concrete</b>
	<b>03 37 Specialty Placed Concrete</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>03 37 16 00-0001</b>	<b>Concrete Pumping With Boom Truck</b> <small>(03 37 16)</small>		
	<small>Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.</small>		
03 37 16 00-0002	HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating).....	132.03	
03 37 16 00-0003	HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	138.00	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.25	
03 37 16 00-0004	HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	159.57	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.50	
03 37 16 00-0005	HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	172.99	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.50	
03 37 16 00-0006	HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	186.84	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.75	
03 37 16 00-0007	HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	216.19	
03 37 16 00-0008	HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	233.69	
03 37 16 00-0009	HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating).....	276.09	
	<i>For Each CY Of Concrete Pumped, Add</i>	2.25	
03 37 16 00-0010	HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump .....	96.69	
	<small>Note: Includes hoses</small>		

**03 39 Concrete Curing** (03 39)

**03 39 13 Water Concrete Curing** (03 39)

<b>03 39 13 00-0001</b>	<b>Water Concrete Curing</b> <small>(03 39 13)</small>		
03 39 13 00-0002	SF Water Based Curing, Sealing, Hardening And Dustproofing Compound .....	0.25	
	<small>Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.</small>		

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

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

<b>03 39 23 23-0001</b>	<b>Warm Weather Concrete Curing Blankets</b> <small>(03 39 23 23)</small>		
03 39 23 23-0002	CSF Warm Weather Concrete Curing Blankets .....	29.23	
<b>03 39 23 23-0003</b>	<b>Cold Weather Concrete Curing Blankets</b> <small>(03 39 23 23)</small>		
03 39 23 23-0004	CSF Electric, Cold Weather Concrete Curing Blanket.....	181.82	
03 39 23 23-0005	CSF Non-Electric, Cold Weather Concrete Curing Blanket.....	27.00	

**03 40 Precast Concrete** (03)

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

**03 41 Precast Structural Concrete** (03 40)

**03 41 16 Precast Concrete Slabs** (03 41)

<b>03 41 16 00-0001</b>	<b>Flat Floor Slab/Floor Plank</b> <small>(03 41 16)</small>		
<b>03 41 16 00-0002</b>	<b>Erection Costs For Using A 90 Ton Crawler Crane</b> <small>(03 41 16 00-0001)</small>		
	<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 16 00-0003	EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	288.18	230.57
03 41 16 00-0004	EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	320.36	256.24
03 41 16 00-0005	EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	340.17	272.12
03 41 16 00-0006	EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	360.62	288.52
03 41 16 00-0007	EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	385.93	308.73
03 41 16 00-0008	EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	412.46	329.96
03 41 16 00-0009	EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	442.91	354.30
03 41 16 00-0010	EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	481.71	385.34
03 41 16 00-0011	EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	523.76	419.05

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

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

03 41 16 00-0013	SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	26.60	
	<i>For 3,500 PSI Concrete, Add</i>	0.53	
	<i>For 4,000 PSI Concrete, Add</i>	0.80	
	<i>For 4,500 PSI Concrete, Add</i>	1.06	
	<i>For 5,000 PSI Concrete, Add</i>	1.60	
03 41 16 00-0014	SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	31.93	
	<i>For 3,500 PSI Concrete, Add</i>	0.64	
	<i>For 4,000 PSI Concrete, Add</i>	0.96	
	<i>For 4,500 PSI Concrete, Add</i>	1.28	
	<i>For 5,000 PSI Concrete, Add</i>	1.92	



<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0015 SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	39.02	
For 3,500 PSI Concrete, Add	0.78	
For 4,000 PSI Concrete, Add	1.17	
For 4,500 PSI Concrete, Add	1.56	
For 5,000 PSI Concrete, Add	2.34	
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	51.79	
For 3,500 PSI Concrete, Add	1.04	
For 4,000 PSI Concrete, Add	1.55	
For 4,500 PSI Concrete, Add	2.07	
For 5,000 PSI Concrete, Add	3.11	
<b>03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)</b>		
<b>03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane.....	355.89	284.69
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane.....	387.89	310.35
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane.....	428.72	342.94
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane.....	476.05	380.81
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane.....	535.12	428.06
<b>03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	443.79	355.06
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane.....	483.70	386.94
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	534.62	427.73
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	593.64	474.93
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	667.30	533.89
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	725.56	580.40
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	801.93	641.54
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	887.57	710.11
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	1,004.62	803.70
<b>03 41 16 00-0034 Material Cost (03 41 16 00-0017)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
<b>03 41 16 00-0035 4" Slab (03 41 16 00-0034)</b>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,802.35	
For 3,500 PSI Concrete, Add	56.05	
For 4,000 PSI Concrete, Add	84.07	
For 4,500 PSI Concrete, Add	112.09	
For 5,000 PSI Concrete, Add	168.14	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,837.82	
For 3,500 PSI Concrete, Add	56.76	
For 4,000 PSI Concrete, Add	85.13	
For 4,500 PSI Concrete, Add	113.51	
For 5,000 PSI Concrete, Add	170.27	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,192.55	
For 3,500 PSI Concrete, Add	63.85	
For 4,000 PSI Concrete, Add	95.78	
For 4,500 PSI Concrete, Add	127.70	
For 5,000 PSI Concrete, Add	191.55	
<b>03 41 16 00-0039 5" Slab (03 41 16 00-0034)</b>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,873.29	
For 3,500 PSI Concrete, Add	57.47	
For 4,000 PSI Concrete, Add	86.20	
For 4,500 PSI Concrete, Add	114.93	
For 5,000 PSI Concrete, Add	172.40	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,979.71	
For 3,500 PSI Concrete, Add	59.59	
For 4,000 PSI Concrete, Add	89.39	
For 4,500 PSI Concrete, Add	119.19	
For 5,000 PSI Concrete, Add	178.78	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,795.58	
For 3,500 PSI Concrete, Add	75.91	
For 4,000 PSI Concrete, Add	113.87	
For 4,500 PSI Concrete, Add	151.82	
For 5,000 PSI Concrete, Add	227.73	
<b>03 41 16 00-0043 6" Slab (03 41 16 00-0034)</b>		
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,979.71	
For 3,500 PSI Concrete, Add	59.59	
For 4,000 PSI Concrete, Add	89.39	
For 4,500 PSI Concrete, Add	119.19	
For 5,000 PSI Concrete, Add	178.78	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,547.27	
For 3,500 PSI Concrete, Add	70.95	
For 4,000 PSI Concrete, Add	106.42	
For 4,500 PSI Concrete, Add	141.89	
For 5,000 PSI Concrete, Add	212.84	
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,327.67	
For 3,500 PSI Concrete, Add	86.55	
For 4,000 PSI Concrete, Add	129.83	
For 4,500 PSI Concrete, Add	173.11	
For 5,000 PSI Concrete, Add	259.66	
<b>03 41 19 Precast Concrete Wall Panels (03 41)</b>		
<b>03 41 19 00-0001 Structural Wall Panels (03 41 19)</b>		
Note: Gray, smooth form or board finish one side.		
<b>03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane .....	284.53	227.65
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane .....	316.31	253.00
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane .....	356.06	284.87
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane .....	381.04	304.82
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane .....	407.23	325.79
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane .....	437.30	349.81
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane .....	475.61	380.46
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane .....	517.13	413.75
<b>03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012 EA Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane .....	320.14	256.08
03 41 19 00-0013 EA Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	355.89	284.69
03 41 19 00-0014 EA Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	400.61	320.54
03 41 19 00-0015 EA Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	428.72	342.94
03 41 19 00-0016 EA Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	458.20	366.56
03 41 19 00-0017 EA Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane .....	492.03	393.65
03 41 19 00-0018 EA Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane .....	535.12	428.06
03 41 19 00-0019 EA Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane .....	581.84	465.43
03 41 19 00-0020 EA Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane .....	643.09	514.50
03 41 19 00-0021 EA Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane .....	711.76	569.39
03 41 19 00-0022 EA Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane .....	805.63	644.53
03 41 19 00-0023 EA Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane .....	916.40	733.12
03 41 19 00-0024 EA Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane .....	1,062.49	850.01
<b>03 41 19 00-0025 Material Cost (03 41 19 00-0001)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0026 SF 4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	35.47	
For 3,500 PSI Concrete, Add	0.71	
For 4,000 PSI Concrete, Add	1.06	
For 4,500 PSI Concrete, Add	1.42	
For 5,000 PSI Concrete, Add	2.13	
For White Facing, Add	7.09	
For Solid White Through Thickness, Add	7.09	
For Broken Rib Finish, Add	3.55	
For Fluted Surface, Add	3.55	
For Exposed Aggregate, Add	7.09	
For Sandblasting Of Surface, Add	3.55	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	43.63	
For 3,500 PSI Concrete, Add	0.87	
For 4,000 PSI Concrete, Add	1.31	
For 4,500 PSI Concrete, Add	1.75	
For 5,000 PSI Concrete, Add	2.62	
For White Facing, Add	8.73	
For Solid White Through Thickness, Add	8.73	
For Broken Rib Finish, Add	4.36	
For Fluted Surface, Add	4.36	
For Exposed Aggregate, Add	8.73	
For Sandblasting Of Surface, Add	4.36	
For 2" Polystyrene Insulation, Add	1.15	





<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect .....	52.50	
For 3,500 PSI Concrete, Add	1.05	
For 4,000 PSI Concrete, Add	1.58	
For 4,500 PSI Concrete, Add	2.10	
For 5,000 PSI Concrete, Add	3.15	
For White Facing, Add	10.50	
For Solid White Through Thickness, Add	10.50	
For Broken Rib Finish, Add	5.25	
For Fluted Surface, Add	5.25	
For Exposed Aggregate, Add	10.50	
For Sandblasting Of Surface, Add	5.25	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect .....	69.17	
For 3,500 PSI Concrete, Add	1.38	
For 4,000 PSI Concrete, Add	2.08	
For 4,500 PSI Concrete, Add	2.77	
For 5,000 PSI Concrete, Add	4.15	
For White Facing, Add	13.83	
For Solid White Through Thickness, Add	13.83	
For Broken Rib Finish, Add	6.92	
For Fluted Surface, Add	6.92	
For Exposed Aggregate, Add	13.83	
For Sandblasting Of Surface, Add	6.92	
For 2" Polystyrene Insulation, Add	1.15	
<b>03 41 19 00-0030 Partition Panels (03 41 19)</b>		
<b>03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane .....	232.10	185.65
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane .....	258.02	206.44
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane .....	290.45	232.35
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane .....	332.19	265.76
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane .....	356.72	285.40
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane .....	387.97	310.37
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane .....	421.84	337.51
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane .....	466.24	373.01
<b>03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)</b>		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane .....	284.53	227.65
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane .....	316.31	253.00
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane .....	356.06	284.87
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane .....	407.23	325.79
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane .....	437.30	349.81
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane .....	475.61	380.46
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane .....	517.13	413.75
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane .....	571.56	457.23
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane .....	632.60	506.10
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane .....	716.02	572.78
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane .....	814.48	651.58
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane .....	944.32	755.42
<b>03 41 19 00-0053 Material Cost (03 41 19 00-0030)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect .....	33.70	
For 4,000 PSI Concrete, Add	1.01	
For 4,500 PSI Concrete, Add	1.35	
For 5,000 PSI Concrete, Add	2.02	
For White Facing, Add	6.74	
For Solid White Through Thickness, Add	6.74	
For Broken Rib Finish, Add	3.37	
For Fluted Surface, Add	3.37	
For Exposed Aggregate, Add	6.74	
For Sandblasting Of Surface, Add	3.37	
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect .....	41.50	
For 4,000 PSI Concrete, Add	1.25	
For 4,500 PSI Concrete, Add	1.66	
For 5,000 PSI Concrete, Add	2.49	
For White Facing, Add	8.30	
For Solid White Through Thickness, Add	8.30	
For Broken Rib Finish, Add	4.15	
For Fluted Surface, Add	4.15	
For Exposed Aggregate, Add	8.30	
For Sandblasting Of Surface, Add	4.15	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect .....	49.66	
For 4,000 PSI Concrete, Add	1.49	
For 4,500 PSI Concrete, Add	1.99	
For 5,000 PSI Concrete, Add	2.98	
For White Facing, Add	9.93	
For Solid White Through Thickness, Add	9.93	
For Broken Rib Finish, Add	4.97	
For Fluted Surface, Add	4.97	
For Exposed Aggregate, Add	9.93	
For Sandblasting Of Surface, Add	4.97	
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect .....	65.62	
For 4,000 PSI Concrete, Add	1.97	
For 4,500 PSI Concrete, Add	2.62	
For 5,000 PSI Concrete, Add	3.94	
For White Facing, Add	13.12	
For Solid White Through Thickness, Add	13.12	
For Broken Rib Finish, Add	6.56	
For Fluted Surface, Add	6.56	
For Exposed Aggregate, Add	13.12	
For Sandblasting Of Surface, Add	6.56	
<b>03 41 19 00-0058 Cladding Panels (03 41 19)</b>		
<b>03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane .....	300.26	240.16
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane .....	335.87	268.67
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane .....	381.04	304.82
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane .....	407.23	325.79
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane .....	437.30	349.81
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane .....	475.61	380.46
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane .....	517.13	413.75
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane .....	571.56	457.23
<b>03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane .....	337.85	270.24
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	377.90	302.31
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	428.72	342.94
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	458.20	366.56
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	492.03	393.65
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane .....	535.12	428.06
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane .....	581.84	465.43
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane .....	643.09	514.50
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane .....	711.76	569.39
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane .....	805.63	644.53
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane .....	916.40	733.12
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane .....	1,062.49	850.01
<b>03 41 19 00-0081 Material Cost (03 41 19 00-0058)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect .....	33.70	
For 3,500 PSI Concrete, Add	0.67	
For 4,000 PSI Concrete, Add	1.01	
For 4,500 PSI Concrete, Add	1.35	
For 5,000 PSI Concrete, Add	2.02	
For White Facing, Add	6.74	
For Solid White Through Thickness, Add	6.74	
For Broken Rib Finish, Add	3.37	
For Fluted Surface, Add	3.37	
For Exposed Aggregate, Add	6.74	
For Sandblasting Of Surface, Add	3.37	
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect .....	41.50	
For 3,500 PSI Concrete, Add	0.83	
For 4,000 PSI Concrete, Add	1.25	
For 4,500 PSI Concrete, Add	1.66	
For 5,000 PSI Concrete, Add	2.49	
For White Facing, Add	8.30	
For Solid White Through Thickness, Add	8.30	
For Broken Rib Finish, Add	4.15	
For Fluted Surface, Add	4.15	
For Exposed Aggregate, Add	8.30	
For Sandblasting Of Surface, Add	4.15	



<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0084 SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	49.66	
For 3,500 PSI Concrete, Add	0.99	
For 4,000 PSI Concrete, Add	1.49	
For 4,500 PSI Concrete, Add	1.99	
For 5,000 PSI Concrete, Add	2.98	
For White Facing, Add	9.93	
For Solid White Through Thickness, Add	9.93	
For Broken Rib Finish, Add	4.97	
For Fluted Surface, Add	4.97	
For Exposed Aggregate, Add	9.93	
For Sandblasting Of Surface, Add	4.97	
03 41 19 00-0085 SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	65.62	
For 3,500 PSI Concrete, Add	1.31	
For 4,000 PSI Concrete, Add	1.97	
For 4,500 PSI Concrete, Add	2.62	
For 5,000 PSI Concrete, Add	3.94	
For White Facing, Add	13.12	
For Solid White Through Thickness, Add	13.12	
For Broken Rib Finish, Add	6.56	
For Fluted Surface, Add	6.56	
For Exposed Aggregate, Add	13.12	
For Sandblasting Of Surface, Add	6.56	
<b>03 41 19 00-0086 Sandwich Panel (03 41 19)</b>		
<b>03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane .....	300.26	240.16
03 41 19 00-0089 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane .....	335.87	268.67
03 41 19 00-0090 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane .....	381.04	304.82
03 41 19 00-0091 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane .....	407.23	325.79
03 41 19 00-0092 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane .....	437.30	349.81
03 41 19 00-0093 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane .....	475.61	380.46
03 41 19 00-0094 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane .....	517.13	413.75
03 41 19 00-0095 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane .....	571.56	457.23
<b>03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane .....	304.12	243.24
03 41 19 00-0098 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	340.17	272.12
03 41 19 00-0099 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	385.93	308.73
03 41 19 00-0100 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	412.46	329.96
03 41 19 00-0101 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	442.91	354.30
03 41 19 00-0102 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane .....	481.71	385.34
03 41 19 00-0103 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane .....	523.76	419.05
03 41 19 00-0104 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane .....	578.89	463.09
03 41 19 00-0105 EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane .....	640.71	512.59
03 41 19 00-0106 EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane .....	725.21	580.13
03 41 19 00-0107 EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane .....	824.92	659.94
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane .....	956.43	765.11
<b>03 41 19 00-0109 Material Cost (03 41 19 00-0086)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.		
03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	46.11	
For 3,500 PSI Concrete, Add	0.92	
For 4,000 PSI Concrete, Add	1.38	
For 4,500 PSI Concrete, Add	1.84	
For 5,000 PSI Concrete, Add	2.77	
For White Facing, Add	9.22	
For Solid White Through Thickness, Add	9.22	
For Broken Rib Finish, Add	4.61	
For Fluted Surface, Add	4.61	
For Exposed Aggregate, Add	9.22	
For Sandblasting Of Surface, Add	4.61	
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	54.27	
For 3,500 PSI Concrete, Add	1.09	
For 4,000 PSI Concrete, Add	1.63	
For 4,500 PSI Concrete, Add	2.17	
For 5,000 PSI Concrete, Add	3.26	
For White Facing, Add	10.85	
For Solid White Through Thickness, Add	10.85	
For Broken Rib Finish, Add	5.43	
For Fluted Surface, Add	5.43	
For Exposed Aggregate, Add	10.85	
For Sandblasting Of Surface, Add	5.43	

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

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 41 19 00-0112	SF	6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	63.14	
		<i>For 3,500 PSI Concrete, Add</i>	1.26	
		<i>For 4,000 PSI Concrete, Add</i>	1.89	
		<i>For 4,500 PSI Concrete, Add</i>	2.53	
		<i>For 5,000 PSI Concrete, Add</i>	3.79	
		<i>For White Facing, Add</i>	12.63	
		<i>For Solid White Through Thickness, Add</i>	12.63	
		<i>For Broken Rib Finish, Add</i>	6.31	
		<i>For Fluted Surface, Add</i>	6.31	
		<i>For Exposed Aggregate, Add</i>	12.63	
		<i>For Sandblasting Of Surface, Add</i>	6.31	
03 41 19 00-0113	SF	8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	79.81	
		<i>For 3,500 PSI Concrete, Add</i>	1.60	
		<i>For 4,000 PSI Concrete, Add</i>	2.39	
		<i>For 4,500 PSI Concrete, Add</i>	3.19	
		<i>For 5,000 PSI Concrete, Add</i>	4.79	
		<i>For White Facing, Add</i>	15.96	
		<i>For Solid White Through Thickness, Add</i>	15.96	
		<i>For Broken Rib Finish, Add</i>	7.98	
		<i>For Fluted Surface, Add</i>	7.98	
		<i>For Exposed Aggregate, Add</i>	15.96	
		<i>For Sandblasting Of Surface, Add</i>	7.98	

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

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

03 41 23 00-0002	EA	Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	316.31	253.00
03 41 23 00-0003	EA	Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	335.87	268.67
03 41 23 00-0004	EA	Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	356.06	284.87
03 41 23 00-0005	EA	Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	381.04	304.82
03 41 23 00-0006	EA	Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	407.23	325.79
03 41 23 00-0007	EA	Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	437.30	349.81
03 41 23 00-0008	EA	Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	475.61	380.46
03 41 23 00-0009	EA	Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	517.13	413.75

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

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

03 41 23 00-0011	EA	Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	316.31	253.00
03 41 23 00-0012	EA	Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	335.87	268.67
03 41 23 00-0013	EA	Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	356.06	284.87
03 41 23 00-0014	EA	Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	381.04	304.82
03 41 23 00-0015	EA	Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	407.23	325.79
03 41 23 00-0016	EA	Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	437.30	349.81
03 41 23 00-0017	EA	Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	475.61	380.46
03 41 23 00-0018	EA	Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	517.13	413.75

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

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

03 41 23 00-0020	EA	3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	710.91	
		<i>For 3,500 PSI Concrete, Add</i>	92.77	
		<i>For 4,000 PSI Concrete, Add</i>	174.32	
		<i>For 4,500 PSI Concrete, Add</i>	256.21	
		<i>For 5,000 PSI Concrete, Add</i>	348.56	

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

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

03 41 26 00-0003	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane.....	400.61	320.54
03 41 26 00-0004	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane.....	428.72	342.94
03 41 26 00-0005	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	458.20	366.56
03 41 26 00-0006	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	492.03	393.65

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

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

03 41 26 00-0008	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane.....	499.56	399.62
03 41 26 00-0009	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane.....	534.62	427.73
03 41 26 00-0010	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane.....	571.38	457.10
03 41 26 00-0011	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane.....	613.56	490.82
03 41 26 00-0012	EA	Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane.....	667.30	533.89
03 41 26 00-0013	EA	Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane.....	725.56	580.40
03 41 26 00-0014	EA	Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane.....	801.93	641.54



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane.....	887.57	710.11
<b>03 41 26 00-0016 Material Cost</b> <small>(03 41 26 00-0001)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
<b>03 41 26 00-0017 1,000 LB/LF Live Load</b> <small>(03 41 26 00-0016)</small>		
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	142.16	
For 3,500 PSI Concrete, Add	3.88	
For 4,000 PSI Concrete, Add	5.83	
For 4,500 PSI Concrete, Add	7.76	
For 5,000 PSI Concrete, Add	11.66	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	177.70	
For 3,500 PSI Concrete, Add	4.85	
For 4,000 PSI Concrete, Add	7.29	
For 4,500 PSI Concrete, Add	9.70	
For 5,000 PSI Concrete, Add	14.57	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	213.24	
For 3,500 PSI Concrete, Add	5.82	
For 4,000 PSI Concrete, Add	8.74	
For 4,500 PSI Concrete, Add	11.64	
For 5,000 PSI Concrete, Add	17.49	
<b>03 41 26 00-0021 3,000 LB/LF Live Load</b> <small>(03 41 26 00-0016)</small>		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	177.70	
For 3,500 PSI Concrete, Add	4.85	
For 4,000 PSI Concrete, Add	7.29	
For 4,500 PSI Concrete, Add	9.70	
For 5,000 PSI Concrete, Add	14.57	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	213.24	
For 3,500 PSI Concrete, Add	5.82	
For 4,000 PSI Concrete, Add	8.74	
For 4,500 PSI Concrete, Add	11.64	
For 5,000 PSI Concrete, Add	17.49	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	284.32	
For 3,500 PSI Concrete, Add	7.76	
For 4,000 PSI Concrete, Add	11.66	
For 4,500 PSI Concrete, Add	15.52	
For 5,000 PSI Concrete, Add	23.31	
<b>03 41 26 00-0025 5,000 LB/LF Live Load</b> <small>(03 41 26 00-0016)</small>		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	248.78	
For 3,500 PSI Concrete, Add	6.79	
For 4,000 PSI Concrete, Add	10.20	
For 4,500 PSI Concrete, Add	13.58	
For 5,000 PSI Concrete, Add	20.40	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	284.32	
For 3,500 PSI Concrete, Add	7.76	
For 4,000 PSI Concrete, Add	11.66	
For 4,500 PSI Concrete, Add	15.52	
For 5,000 PSI Concrete, Add	23.31	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	355.40	
For 3,500 PSI Concrete, Add	9.70	
For 4,000 PSI Concrete, Add	14.57	
For 4,500 PSI Concrete, Add	19.40	
For 5,000 PSI Concrete, Add	29.14	
<b>03 41 26 00-0029 Precast Concrete Columns</b> <small>(03 41 26)</small>		
<b>03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane</b> <small>(03 41 26 00-0029)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	230.75	184.58
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	245.33	196.23
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	262.92	210.35
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	282.03	225.61
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane .....	304.12	243.24
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane .....	329.96	263.97
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane .....	360.62	288.52
<b>03 41 26 00-0038 Material Cost</b> <small>(03 41 26 00-0029)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
<b>03 41 26 00-0039 12" x 12" Column, Square, Tied</b> <small>(03 41 26 00-0038)</small>		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY .....	735.80	
For 3,500 PSI Concrete, Add	55.19	
For 4,000 PSI Concrete, Add	103.75	
For 4,500 PSI Concrete, Add	153.05	
For 5,000 PSI Concrete, Add	208.23	



<b>03</b>	<b>Concrete</b>
<b>03 40</b>	<b>Precast Concrete</b>
<b>03 41</b>	<b>Precast Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>03 41 26 00-0041</b>	<b>16" x 16" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0042	CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY.....	753.97	
	For 3,500 PSI Concrete, Add	56.55	
	For 4,000 PSI Concrete, Add	106.31	
	For 4,500 PSI Concrete, Add	156.83	
	For 5,000 PSI Concrete, Add	213.37	
<b>03 41 26 00-0043</b>	<b>20" x 20" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0044	CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY.....	755.42	
	For 3,500 PSI Concrete, Add	56.66	
	For 4,000 PSI Concrete, Add	106.51	
	For 4,500 PSI Concrete, Add	157.13	
	For 5,000 PSI Concrete, Add	213.78	
<b>03 41 26 00-0045</b>	<b>24" x 24" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0046	CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY.....	755.42	
	For 3,500 PSI Concrete, Add	56.66	
	For 4,000 PSI Concrete, Add	106.51	
	For 4,500 PSI Concrete, Add	157.13	
	For 5,000 PSI Concrete, Add	213.78	
<b>03 41 26 00-0047</b>	<b>28" x 28" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0048	CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY.....	755.42	
	For 3,500 PSI Concrete, Add	56.66	
	For 4,000 PSI Concrete, Add	106.51	
	For 4,500 PSI Concrete, Add	157.13	
	For 5,000 PSI Concrete, Add	213.78	
<b>03 41 26 00-0049</b>	<b>32" x 32" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0050	CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY.....	753.97	
	For 3,500 PSI Concrete, Add	56.55	
	For 4,000 PSI Concrete, Add	106.31	
	For 4,500 PSI Concrete, Add	156.83	
	For 5,000 PSI Concrete, Add	213.37	
<b>03 41 26 00-0051</b>	<b>36" x 36" Column, Square, Tied</b> (03 41 26 00-0038)		
03 41 26 00-0052	CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY.....	755.42	
	For 3,500 PSI Concrete, Add	56.66	
	For 4,000 PSI Concrete, Add	106.51	
	For 4,500 PSI Concrete, Add	157.13	
	For 5,000 PSI Concrete, Add	213.78	
<b>03 41 33</b>	<b>Precast Structural Pretensioned Concrete</b> (03 41)		
<b>03 41 33 00-0001</b>	<b>Slabs, Roof And Floor Members</b> (03 41 33)		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	14.95	1.90
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	18.65	1.90
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	22.35	1.99
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	26.08	2.09
<b>03 41 33 00-0006</b>	<b>Teel Members</b> (03 41 33)		
<b>03 41 33 00-0007</b>	<b>Multiple Tee, Roof And Floor</b> (03 41 33 00-0006)		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members.....	33.68	2.47
<b>03 41 33 00-0009</b>	<b>Double Tee Wall Member</b> (03 41 33 00-0006)		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	47.53	6.73
<b>03 41 33 00-0011</b>	<b>Single Tee, Short Span, Roof Members</b> (03 41 33 00-0006)		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	39.54	4.08
<b>03 41 33 00-0013</b>	<b>Single Tee, Long Span, Roof Members</b> (03 41 33 00-0006)		
03 41 33 00-0014	SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span.....	47.49	3.51
<b>03 41 33 00-0015</b>	<b>Prestressed Concrete Items</b> (03 41 33)		
<b>03 41 33 00-0016</b>	<b>Prestressed Quad Tee</b> (03 41 33 00-0015)		
03 41 33 00-0017	SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	24.42	0.76



<b>Concrete</b>	<b>03</b>	<b>CS</b>
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor .....	25.49	0.76
<b>03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)</b>		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members, 60' Span.....	40.62	0.66
03 41 33 00-0021 SF Tees, Double Tee, Floor Members, 80' Span.....	55.95	0.66
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span .....	27.70	1.14
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span .....	42.94	0.76
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	30.00	1.52
<b>03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)</b>		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span .....	48.03	1.71
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span .....	55.68	1.04
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span .....	73.67	0.95
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span .....	77.58	0.95
<b>03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)</b>		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'.....	12,426.73	273.05
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'.....	13,530.97	303.40
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'.....	22,642.35	341.32
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25' .....	4,860.13	248.31
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25' .....	6,384.04	273.05
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35' .....	8,161.31	273.05
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45' .....	9,087.82	303.40
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50' .....	11,623.34	341.32
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60' .....	20,926.27	390.24
<b>03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)</b>		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete .....	25.80	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete .....	26.86	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete .....	28.10	
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete .....	29.03	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete .....	31.01	
<b>03 41 33 00-0046 Double And Single Tees (03 41 33)</b>		
<b>03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)</b>		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete .....	31.17	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete .....	30.44	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete .....	28.74	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	31.17	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	31.08	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	47.81	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete.....	46.76	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	43.78	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete .....	47.81	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete .....	44.84	
<b>03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0046)</b>		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete .....	32.13	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete .....	31.40	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete .....	30.34	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete .....	32.13	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	31.08	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	49.09	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete .....	48.04	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	46.34	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete .....	49.09	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete .....	47.72	
<b>03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0046)</b>		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete .....	33.86	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete .....	32.79	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete .....	31.74	
03 41 33 00-0073 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete .....	52.10	
03 41 33 00-0074 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete .....	50.39	
03 41 33 00-0075 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete .....	48.38	
<b>03 48 Precast Concrete Specialties (03 40)</b>		
<b>03 48 16 Precast Concrete Splash Blocks (03 48)</b>		
03 48 16 00-0001 Precast Concrete Splash Blocks (03 48 16)		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 16 00-0002 EA Precast Concrete Splash Blocks, Standard Size.....	33.16	3.32
<b>03 48 21 Precast Concrete Handrails (03 48)</b>		
<b>03 48 21 00-0001 Installation Cost (03 48 21)</b>		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail.....	132.17	59.50
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail.....	158.51	71.30
<b>03 48 21 00-0004 Material Cost (03 48 21)</b>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	2,808.16	
For 3,500 PSI Concrete, Add	183.23	
For 4,000 PSI Concrete, Add	344.28	
For 4,500 PSI Concrete, Add	506.03	
For 5,000 PSI Concrete, Add	688.42	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	2,914.80	
For 3,500 PSI Concrete, Add	190.19	
For 4,000 PSI Concrete, Add	357.35	
For 4,500 PSI Concrete, Add	525.25	
For 5,000 PSI Concrete, Add	714.56	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,021.44	
For 3,500 PSI Concrete, Add	197.15	
For 4,000 PSI Concrete, Add	370.43	
For 4,500 PSI Concrete, Add	544.46	
For 5,000 PSI Concrete, Add	740.71	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,163.63	
For 3,500 PSI Concrete, Add	206.43	
For 4,000 PSI Concrete, Add	387.86	
For 4,500 PSI Concrete, Add	570.09	
For 5,000 PSI Concrete, Add	775.56	
<b>03 48 22 Precast Concrete Sun Screen And Trellis (03 48)</b>		
<b>03 48 22 00-0001 Sun Screen Blades (03 48 22)</b>		
<b>03 48 22 00-0002 Installation Cost (03 48 22 00-0001)</b>		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each.....	66.08	29.75
03 48 22 00-0004 EA Install Precast Sun Screen Blade, 1-2 Ton/Each.....	79.39	35.70
03 48 22 00-0005 EA Install Precast Sun Screen Blade, 2-3 Ton/Each.....	99.20	44.67
<b>03 48 22 00-0006 Material Cost (03 48 22 00-0001)</b>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0007 CY 4" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	2,985.90	
For 3,500 PSI Concrete, Add	194.83	
For 4,000 PSI Concrete, Add	366.07	
For 4,500 PSI Concrete, Add	538.06	
For 5,000 PSI Concrete, Add	731.99	
03 48 22 00-0008 CY 5" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,092.53	
For 3,500 PSI Concrete, Add	201.79	
For 4,000 PSI Concrete, Add	379.14	
For 4,500 PSI Concrete, Add	557.27	
For 5,000 PSI Concrete, Add	758.13	
03 48 22 00-0009 CY 6" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,234.72	
For 3,500 PSI Concrete, Add	211.07	
For 4,000 PSI Concrete, Add	396.58	
For 4,500 PSI Concrete, Add	582.90	
For 5,000 PSI Concrete, Add	792.99	
03 48 22 00-0010 CY 8" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,376.91	
For 3,500 PSI Concrete, Add	220.34	
For 4,000 PSI Concrete, Add	414.01	
For 4,500 PSI Concrete, Add	608.52	
For 5,000 PSI Concrete, Add	827.85	
<b>03 48 22 00-0011 Sun Screen/Trellis Units (03 48 22)</b>		
<b>03 48 22 00-0012 Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013 EA Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane.....	300.26	135.10
03 48 22 00-0014 EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane.....	335.87	151.19
03 48 22 00-0015 EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane.....	381.04	171.44
03 48 22 00-0016 EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane.....	407.23	183.25
<b>03 48 22 00-0017 Material Cost (03 48 22 00-0011)</b>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		



<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Concrete Specialties</b>	<b>03 48</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades..... <i>For 3,500 PSI Concrete, Add</i> <i>For 4,000 PSI Concrete, Add</i> <i>For 4,500 PSI Concrete, Add</i> <i>For 5,000 PSI Concrete, Add</i>	3,448.00 224.98 422.72 621.33 845.28	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades..... <i>For 3,500 PSI Concrete, Add</i> <i>For 4,000 PSI Concrete, Add</i> <i>For 4,500 PSI Concrete, Add</i> <i>For 5,000 PSI Concrete, Add</i>	3,554.64 231.94 435.80 640.55 871.42	
03 48 22 00-0020 CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades..... <i>For 3,500 PSI Concrete, Add</i> <i>For 4,000 PSI Concrete, Add</i> <i>For 4,500 PSI Concrete, Add</i> <i>For 5,000 PSI Concrete, Add</i>	3,696.82 241.22 453.23 666.17 906.28	
03 48 22 00-0021 CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades..... <i>For 3,500 PSI Concrete, Add</i> <i>For 4,000 PSI Concrete, Add</i> <i>For 4,500 PSI Concrete, Add</i> <i>For 5,000 PSI Concrete, Add</i>	3,874.55 252.81 475.02 698.19 949.85	
<b>03 48 24 Precast Minaret Segments (03 48)</b>		
03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002 L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003 EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	292.18	233.75
03 48 24 00-0004 EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	327.43	261.96
03 48 24 00-0005 EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	370.22	296.16
03 48 24 00-0006 EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	394.89	315.92
03 48 24 00-0007 O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008 EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	308.80	247.09
03 48 24 00-0009 EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	346.58	277.22
03 48 24 00-0010 EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	392.52	313.98
03 48 24 00-0011 EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	420.37	336.28
03 48 24 00-0012 Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	592.34	473.92
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane.....	716.02	572.78
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane.....	794.61	635.69
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane.....	892.57	714.09
03 48 24 00-0017 Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	324.17	259.31
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	361.99	289.55
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	412.39	329.87
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	440.26	352.15
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	295.93	236.75
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	331.63	265.32
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	374.97	299.96
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	399.96	319.97
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane.....	312.76	250.26
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane.....	351.03	280.78
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane.....	397.55	318.00
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79.5' Maximum Radius With 90 Ton Crane.....	425.76	340.59
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	478.21	382.56
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	578.89	463.09
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	640.71	512.59
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	725.21	580.13
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	328.33	262.64

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0040	EA		Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	366.63	293.26
03 48 24 00-0041	EA		Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	417.68	334.10
03 48 24 00-0042	EA		Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	445.90	356.67
<b>03 48 24 00-0043</b>			<b>Material Costs</b> <small>(03 48 24)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044	CY		Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete .....	8,530.65	
			Note: Including Post Tension Cost		
03 48 24 00-0045	CY		Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete .....	8,530.65	
			Note: Including Post Tension Cost		
03 48 24 00-0046	CY		Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete .....	8,530.65	
			Note: Including Post Tension Cost		
03 48 24 00-0047	CY		Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete .....	8,530.65	
			Note: Including Post Tension Cost		
<b>03 48 29</b>			<b>Precast Accessories</b> <small>(03 48)</small>		
			Note: Includes installation labor, material and equipment.		
03 48 29 00-0001			<b>Bearing Pads For Precast Members</b> <small>(03 48 29)</small>		
03 48 29 00-0002			<b>Continuous 2" Wide Strips</b> <small>(03 48 29 00-0001)</small>		
03 48 29 00-0003	LF		Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips .....	1.23	
			Note: For precast members		
03 48 29 00-0004	LF		Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips .....	1.78	
			Note: For precast members.		
03 48 29 00-0005	LF		Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips .....	3.00	
			Note: For precast members		
03 48 29 00-0006	LF		Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips .....	4.23	
			Note: For precast members		
03 48 29 00-0007	LF		Bearing Pads, Continuous 2" Wide x 1" Thick Strips .....	5.50	
			Note: For precast members		
03 48 29 00-0008	LF		Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips .....	7.94	
			Note: For precast members		
03 48 29 00-0009			<b>Bearing Pad Pipe Supports</b> <small>(03 48 29)</small>		
03 48 29 00-0010	LF		4" x 4" Precast Pipe Support .....	8.00	
<b>03 48 46</b>			<b>Precast Skylight Shells</b> <small>(03 48)</small>		
03 48 46 00-0001			<b>Installation Cost Using A 90 Ton Crawler Crane</b> <small>(03 48 46)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA		Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane .....	428.72	192.96
03 48 46 00-0003	EA		Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane .....	476.05	214.24
03 48 46 00-0004	EA		Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane .....	535.12	240.81
03 48 46 00-0005			<b>Material Cost</b> <small>(03 48 46)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY		3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius .....	3,568.96	
<b>03 48 49</b>			<b>Precast Landings</b> <small>(03 48)</small>		
03 48 49 00-0001	SF		3" Thick Precast Landing .....	88.19	
03 48 49 00-0002	SF		4" Thick Precast Landing .....	102.88	
03 48 49 00-0003	SF		5" Thick Precast Landing .....	116.81	
03 48 49 00-0004	SF		6" Thick Precast Landing .....	134.66	
<b>03 48 54</b>			<b>Precast Concrete Blocks</b> <small>(03 48)</small>		
03 48 54 00-0001			<b>Precast Concrete Blocks</b> <small>(03 48 54)</small>		
03 48 54 00-0002	EA		2' x 2' x 2' Precast Concrete Block .....	91.61	34.95
03 48 54 00-0003	EA		2' x 2' x 4' Precast Concrete Block .....	130.89	43.68
03 48 54 00-0004	EA		2' x 2' x 8' Precast Concrete Block .....	218.23	52.41

**03 50 Cast Decks And Underlayment** (03)**03 53 Concrete Topping** (03 50)

Note: Installed over new or existing concrete.

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

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

03 53 14 00-0002	SF		1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	3.70	
03 53 14 00-0003	SF		1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	4.01	
03 53 14 00-0004	SF		2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	5.08	





<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Cast Decks And Underlayment</b>	<b>03 50</b>	
<b>Concrete Topping</b>	<b>03 53</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 53 19 Concrete Overlayment** (03 53)

**03 53 19 00-0001 Integral Topping Including Hard Trowel Finish** (03 53 19)  
 Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.20
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.49
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.91
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.46
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.97
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.31
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.84

**03 54 Cast Underlayment** (03 50)

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

**03 54 16 Hydraulic Cement Underlayment** (03 54)

**03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors** (03 54 16)  
 Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors .....	1.49
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.12
		For >100 To 250 SF, Add	0.06
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors .....	2.62
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.12
		For >100 To 250 SF, Add	0.06
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors .....	3.37
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.12
		For >100 To 250 SF, Add	0.06
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors .....	4.88
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.12
		For >100 To 250 SF, Add	0.06
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors .....	5.78
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.12
		For >100 To 250 SF, Add	0.06
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors .....	7.17
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors .....	9.42
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors .....	12.46
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.16
		For >100 To 250 SF, Add	0.08
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors .....	13.98
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.16
		For >100 To 250 SF, Add	0.08
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors .....	18.57
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.20
		For >100 To 250 SF, Add	0.10

**03 60 Grouting** (03)

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

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

**03 61 16 Cementitious Flowable Grout** (03 61)

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

03 61 16 00-0002	CY	Cementitious Flowable Grout.....	408.80
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**03 62 Non-Shrink Grouting** (03 60)

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

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

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases .....	23.10
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases .....	34.51

<b>03</b>	<b>03 Concrete</b>
	<b>03 60 Grouting</b>
	<b>03 62 Non-Shrink Grouting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases</b> <small>(03 62 13)</small>		
03 62 13 00-0005 SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases .....	35.53	
03 62 13 00-0006 SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases .....	57.33	
<b>03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints</b> <small>(03 62 13)</small>		
<b>03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints</b> <small>(03 62 13 00-0007)</small>		
03 62 13 00-0009 LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	1.79	
03 62 13 00-0010 LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	2.35	
03 62 13 00-0011 LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	3.11	
<b>03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints</b> <small>(03 62 13 00-0007)</small>		
03 62 13 00-0013 LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	2.67	
03 62 13 00-0014 LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	3.57	
03 62 13 00-0015 LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	4.75	
<b>03 62 16 Metallic Non-Shrink Grouting</b> <small>(03 62)</small>		
<b>03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases</b> <small>(03 62 16)</small>		
03 62 16 00-0002 SF 1" Deep, Metallic Non-Shrink Grout For Bases .....	29.79	
03 62 16 00-0003 SF 2" Deep, Metallic Non-Shrink Grout For Bases .....	46.20	
<b>03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints</b> <small>(03 62 16)</small>		
<b>03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints</b> <small>(03 62 16 00-0004)</small>		
03 62 16 00-0006 LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	1.43	
03 62 16 00-0007 LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	1.81	
03 62 16 00-0008 LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	2.41	
<b>03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints</b> <small>(03 62 16 00-0004)</small>		
03 62 16 00-0010 LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	1.97	
03 62 16 00-0011 LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	2.48	
03 62 16 00-0012 LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	3.32	
<b>03 64 Injection Grouting</b> <small>(03 60)</small>		
Note: By volume of void filled. Includes injection ports.		
<b>03 64 23 Epoxy Injection Grouting</b> <small>(03 64)</small>		
<b>03 64 23 00-0001 Pressure Injected Epoxy Grout</b> <small>(03 64 23)</small>		
03 64 23 00-0002 CF Pressure Injected Epoxy Grout .....	1,135.16	
<i>For &gt;4, Deduct</i>		-120.40
<b>03 64 26 Cementitious Injection Grouting</b> <small>(03 64)</small>		
<b>03 64 26 00-0001 Pressure Injected Cementitious Grout</b> <small>(03 64 26)</small>		
03 64 26 00-0002 CF Pressure Injected Cementitious Grout .....	145.26	
<i>For &gt;4, Deduct</i>		-34.81
<b>03 80 Concrete Cutting And Boring</b> <small>(03)</small>		
<b>03 81 Concrete Cutting</b> <small>(03 80)</small>		
<b>03 81 13 Flat Concrete Sawing</b> <small>(03 81)</small>		
See CSI section 02 41 19 13-0057 for saw cutting.		
<b>03 81 16 Track Mounted Concrete Wall Sawing</b> <small>(03 81)</small>		
See CSI section 02 41 19 13-0057 for saw cutting.		
<b>03 82 Concrete Boring</b> <small>(03 80)</small>		
<b>03 82 13 Concrete Core Drilling</b> <small>(03 82)</small>		
See CSI section 02 41 19 13-0080 for core drilling.		

**END OF SECTION 03**



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

### 05 05 Common Work Results For Metals <sup>(05)</sup>

#### 05 05 19 Post-Installed Concrete Anchors <sup>(05 05)</sup>

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

#### 05 05 19 00-0001 Concrete And Masonry Anchors <sup>(05 05 19)</sup>

#### 05 05 19 00-0002 Expansion Anchors <sup>(05 05 19 00-0001)</sup>

Note: Includes drilling.

#### 05 05 19 00-0003 Wedge Expansion Bolt Anchors <sup>(05 05 19 00-0002)</sup>

#### 05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt <sup>(05 05 19 00-0003)</sup>

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	10.52
	For >10 To 50, Deduct	-0.49
	For >50 To 100, Deduct	-1.00
	For >100, Deduct	-2.01
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	10.62
	For >10 To 50, Deduct	-0.49
	For >50 To 100, Deduct	-1.01
	For >100, Deduct	-2.01
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	10.95
	For >10 To 50, Deduct	-0.51
	For >50 To 100, Deduct	-1.03
	For >100, Deduct	-2.07
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	12.91
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.22
	For >100, Deduct	-2.45
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	12.99
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.23
	For >100, Deduct	-2.45
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.02
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.23
	For >100, Deduct	-2.45
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.31
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.23
	For >100, Deduct	-2.47
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	18.72
	For >10 To 50, Deduct	-0.85
	For >50 To 100, Deduct	-1.75
	For >100, Deduct	-3.50
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	18.78
	For >10 To 50, Deduct	-0.85
	For >50 To 100, Deduct	-1.75
	For >100, Deduct	-3.50
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	18.90
	For >10 To 50, Deduct	-0.85
	For >50 To 100, Deduct	-1.75
	For >100, Deduct	-3.51
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	19.22
	For >10 To 50, Deduct	-0.85
	For >50 To 100, Deduct	-1.76
	For >100, Deduct	-3.52
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	19.66
	For >10 To 50, Deduct	-0.85
	For >50 To 100, Deduct	-1.77
	For >100, Deduct	-3.55
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	24.38
	For >10 To 50, Deduct	-1.05
	For >50 To 100, Deduct	-2.19
	For >100, Deduct	-4.38
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	24.48
	For >10 To 50, Deduct	-1.05
	For >50 To 100, Deduct	-2.19
	For >100, Deduct	-4.39
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	24.69
	For >10 To 50, Deduct	-1.05
	For >50 To 100, Deduct	-2.20
	For >100, Deduct	-4.40
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.08
	For >10 To 50, Deduct	-1.05
	For >50 To 100, Deduct	-2.21
	For >100, Deduct	-4.42
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.48
	For >10 To 50, Deduct	-1.05
	For >50 To 100, Deduct	-2.22
	For >100, Deduct	-4.44

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.62	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.30	
			<i>For &gt;100, Deduct</i>	-4.59	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.31	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.36	
			<i>For &gt;100, Deduct</i>	-4.73	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.45	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.62	
			<i>For &gt;100, Deduct</i>	-5.24	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.54	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.62	
			<i>For &gt;100, Deduct</i>	-5.24	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.02	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.63	
			<i>For &gt;100, Deduct</i>	-5.27	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.59	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.65	
			<i>For &gt;100, Deduct</i>	-5.29	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.26	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.66	
			<i>For &gt;100, Deduct</i>	-5.33	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.77	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.73	
			<i>For &gt;100, Deduct</i>	-5.45	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	37.11	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.81	
			<i>For &gt;100, Deduct</i>	-5.62	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.89	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.90	
			<i>For &gt;100, Deduct</i>	-5.81	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	39.67	
			<i>For &gt;10 To 50, Deduct</i>	-1.36	
			<i>For &gt;50 To 100, Deduct</i>	-3.03	
			<i>For &gt;100, Deduct</i>	-6.07	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.65	
			<i>For &gt;10 To 50, Deduct</i>	-1.36	
			<i>For &gt;50 To 100, Deduct</i>	-3.08	
			<i>For &gt;100, Deduct</i>	-6.17	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	44.28	
			<i>For &gt;10 To 50, Deduct</i>	-1.36	
			<i>For &gt;50 To 100, Deduct</i>	-3.15	
			<i>For &gt;100, Deduct</i>	-6.30	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	49.08	
			<i>For &gt;10 To 50, Deduct</i>	-1.76	
			<i>For &gt;50 To 100, Deduct</i>	-3.87	
			<i>For &gt;100, Deduct</i>	-7.74	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	52.82	
			<i>For &gt;10 To 50, Deduct</i>	-1.76	
			<i>For &gt;50 To 100, Deduct</i>	-3.96	
			<i>For &gt;100, Deduct</i>	-7.93	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	56.52	
			<i>For &gt;10 To 50, Deduct</i>	-1.76	
			<i>For &gt;50 To 100, Deduct</i>	-4.06	
			<i>For &gt;100, Deduct</i>	-8.11	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.95	
			<i>For &gt;10 To 50, Deduct</i>	-2.26	
			<i>For &gt;50 To 100, Deduct</i>	-4.98	
			<i>For &gt;100, Deduct</i>	-9.96	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	66.62	
			<i>For &gt;10 To 50, Deduct</i>	-2.26	
			<i>For &gt;50 To 100, Deduct</i>	-5.05	
			<i>For &gt;100, Deduct</i>	-10.10	
05 05 19 00-0040			<b>304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.31	
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.02	
			<i>For &gt;100, Deduct</i>	-2.05	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.64	
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.11	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.06	
<i>For &gt;100, Deduct</i>	-2.13	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.41	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.26	
<i>For &gt;100, Deduct</i>	-2.52	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.70	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.27	
<i>For &gt;100, Deduct</i>	-2.54	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.90	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.27	
<i>For &gt;100, Deduct</i>	-2.55	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.46	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.31	
<i>For &gt;100, Deduct</i>	-2.62	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.11	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.83	
<i>For &gt;100, Deduct</i>	-3.67	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.65	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.85	
<i>For &gt;100, Deduct</i>	-3.69	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.95	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.85	
<i>For &gt;100, Deduct</i>	-3.71	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.37	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.89	
<i>For &gt;100, Deduct</i>	-3.78	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.50	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.94	
<i>For &gt;100, Deduct</i>	-3.89	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.28	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.36	
<i>For &gt;100, Deduct</i>	-4.73	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.67	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.40	
<i>For &gt;100, Deduct</i>	-4.80	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.16	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.44	
<i>For &gt;100, Deduct</i>	-4.87	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.15	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.49	
<i>For &gt;100, Deduct</i>	-4.97	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.88	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.70	
<i>For &gt;100, Deduct</i>	-5.41	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.34	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-2.82	
<i>For &gt;100, Deduct</i>	-5.63	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.15	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-2.89	
<i>For &gt;100, Deduct</i>	-5.77	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.55	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-2.95	
<i>For &gt;100, Deduct</i>	-5.89	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.85	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-2.95	
<i>For &gt;100, Deduct</i>	-5.91	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.10	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-3.01	
<i>For &gt;100, Deduct</i>	-6.02	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.95	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-3.16	
<i>For &gt;100, Deduct</i>	-6.31	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt .....	59.20	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.36	
			<i>For &gt;100, Deduct</i>	-6.73	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt .....	59.79	
			<i>For &gt;10 To 50, Deduct</i>	-1.36	
			<i>For &gt;50 To 100, Deduct</i>	-3.54	
			<i>For &gt;100, Deduct</i>	-7.07	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt .....	86.33	
			<i>For &gt;10 To 50, Deduct</i>	-1.76	
			<i>For &gt;50 To 100, Deduct</i>	-4.80	
			<i>For &gt;100, Deduct</i>	-9.60	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt .....	98.53	
			<i>For &gt;10 To 50, Deduct</i>	-1.76	
			<i>For &gt;50 To 100, Deduct</i>	-5.11	
			<i>For &gt;100, Deduct</i>	-10.21	
<b>05 05 19 00-0068</b>			<b>316 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	11.59	
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	12.23	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.07	
			<i>For &gt;100, Deduct</i>	-2.13	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	15.34	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.28	
			<i>For &gt;100, Deduct</i>	-2.57	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	15.83	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.30	
			<i>For &gt;100, Deduct</i>	-2.59	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	15.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.30	
			<i>For &gt;100, Deduct</i>	-2.60	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	18.30	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.36	
			<i>For &gt;100, Deduct</i>	-2.72	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	24.35	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.89	
			<i>For &gt;100, Deduct</i>	-3.78	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	25.71	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.92	
			<i>For &gt;100, Deduct</i>	-3.85	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	28.18	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.99	
			<i>For &gt;100, Deduct</i>	-3.97	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	28.79	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-2.00	
			<i>For &gt;100, Deduct</i>	-4.00	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	38.85	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.55	
			<i>For &gt;100, Deduct</i>	-5.11	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	39.59	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.57	
			<i>For &gt;100, Deduct</i>	-5.14	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	47.92	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.08	
			<i>For &gt;100, Deduct</i>	-6.16	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt .....	51.01	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.16	
			<i>For &gt;100, Deduct</i>	-6.32	
<b>05 05 19 00-0083</b>			<b>Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt .....	21.89	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.83	
			<i>For &gt;100, Deduct</i>	-3.66	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA			1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.16	
				<i>For &gt;10 To 50, Deduct</i>	-0.85	
				<i>For &gt;50 To 100, Deduct</i>	-1.86	
				<i>For &gt;100, Deduct</i>	-3.72	
05 05 19 00-0086	EA			1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.43	
				<i>For &gt;10 To 50, Deduct</i>	-0.85	
				<i>For &gt;50 To 100, Deduct</i>	-1.89	
				<i>For &gt;100, Deduct</i>	-3.78	
05 05 19 00-0087	EA			1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.06	
				<i>For &gt;10 To 50, Deduct</i>	-0.85	
				<i>For &gt;50 To 100, Deduct</i>	-1.91	
				<i>For &gt;100, Deduct</i>	-3.82	
05 05 19 00-0088	EA			5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	30.21	
				<i>For &gt;10 To 50, Deduct</i>	-1.05	
				<i>For &gt;50 To 100, Deduct</i>	-2.34	
				<i>For &gt;100, Deduct</i>	-4.67	
05 05 19 00-0089	EA			5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.69	
				<i>For &gt;10 To 50, Deduct</i>	-1.05	
				<i>For &gt;50 To 100, Deduct</i>	-2.30	
				<i>For &gt;100, Deduct</i>	-4.60	
05 05 19 00-0090	EA			3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	39.30	
				<i>For &gt;10 To 50, Deduct</i>	-1.26	
				<i>For &gt;50 To 100, Deduct</i>	-2.87	
				<i>For &gt;100, Deduct</i>	-5.73	
05 05 19 00-0091	EA			3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	40.69	
				<i>For &gt;10 To 50, Deduct</i>	-1.26	
				<i>For &gt;50 To 100, Deduct</i>	-2.90	
				<i>For &gt;100, Deduct</i>	-5.80	
05 05 19 00-0092	EA			3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	47.55	
				<i>For &gt;10 To 50, Deduct</i>	-1.26	
				<i>For &gt;50 To 100, Deduct</i>	-3.07	
				<i>For &gt;100, Deduct</i>	-6.14	
05 05 19 00-0093	EA			1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	49.84	
				<i>For &gt;10 To 50, Deduct</i>	-1.76	
				<i>For &gt;50 To 100, Deduct</i>	-3.89	
				<i>For &gt;100, Deduct</i>	-7.78	
05 05 19 00-0094	EA			1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	53.79	
				<i>For &gt;10 To 50, Deduct</i>	-1.76	
				<i>For &gt;50 To 100, Deduct</i>	-3.99	
				<i>For &gt;100, Deduct</i>	-7.98	
05 05 19 00-0095	EA			1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	57.70	
				<i>For &gt;10 To 50, Deduct</i>	-1.76	
				<i>For &gt;50 To 100, Deduct</i>	-4.09	
				<i>For &gt;100, Deduct</i>	-8.17	
<b>05 05 19 00-0096</b>				<b>Concrete Sleeve Anchors</b> <small>(05 05 19 00-0002)</small>		
<b>05 05 19 00-0097</b>				<b>Zinc Plated Steel, Concrete Sleeve Anchors</b> <small>(05 05 19 00-0096)</small>		
				Note: Includes nut and washer.		
05 05 19 00-0098	EA			1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	10.57	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.02	
				<i>For &gt;100, Deduct</i>	-2.04	
05 05 19 00-0099	EA			1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	10.71	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.03	
				<i>For &gt;100, Deduct</i>	-2.05	
05 05 19 00-0100	EA			1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	10.89	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.03	
				<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0101	EA			5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.14	
				<i>For &gt;10 To 50, Deduct</i>	-0.53	
				<i>For &gt;50 To 100, Deduct</i>	-1.07	
				<i>For &gt;100, Deduct</i>	-2.15	
05 05 19 00-0102	EA			5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.27	
				<i>For &gt;10 To 50, Deduct</i>	-0.53	
				<i>For &gt;50 To 100, Deduct</i>	-1.08	
				<i>For &gt;100, Deduct</i>	-2.16	
05 05 19 00-0103	EA			3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	12.61	
				<i>For &gt;10 To 50, Deduct</i>	-0.60	
				<i>For &gt;50 To 100, Deduct</i>	-1.22	
				<i>For &gt;100, Deduct</i>	-2.43	
05 05 19 00-0104	EA			3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	12.85	
				<i>For &gt;10 To 50, Deduct</i>	-0.60	
				<i>For &gt;50 To 100, Deduct</i>	-1.22	
				<i>For &gt;100, Deduct</i>	-2.44	
05 05 19 00-0105	EA			3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	13.08	
				<i>For &gt;10 To 50, Deduct</i>	-0.60	
				<i>For &gt;50 To 100, Deduct</i>	-1.23	
				<i>For &gt;100, Deduct</i>	-2.45	
05 05 19 00-0106	EA			1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	18.18	
				<i>For &gt;10 To 50, Deduct</i>	-0.85	
				<i>For &gt;50 To 100, Deduct</i>	-1.73	
				<i>For &gt;100, Deduct</i>	-3.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	18.48	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.48	
05 05 19 00-0108 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	18.74	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.50	
05 05 19 00-0109 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	19.06	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.51	
05 05 19 00-0110 EA 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	22.81	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.15	
For >100, Deduct	-4.30	
05 05 19 00-0111 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	23.27	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.16	
For >100, Deduct	-4.33	
05 05 19 00-0112 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	23.62	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.17	
For >100, Deduct	-4.34	
05 05 19 00-0113 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	24.60	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.39	
05 05 19 00-0114 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	27.98	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-2.58	
For >100, Deduct	-5.16	
05 05 19 00-0115 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	28.83	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-2.60	
For >100, Deduct	-5.21	
05 05 19 00-0116 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	29.60	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-2.62	
For >100, Deduct	-5.24	
05 05 19 00-0117 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	30.83	
For >10 To 50, Deduct	-1.25	
For >50 To 100, Deduct	-2.65	
For >100, Deduct	-5.31	
<b>05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)</b>		
Note: Includes nut and washer.		
05 05 19 00-0119 EA 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	11.87	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.05	
For >100, Deduct	-2.11	
05 05 19 00-0120 EA 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	15.31	
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.57	
05 05 19 00-0121 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	16.63	
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.63	
05 05 19 00-0122 EA 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	22.68	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.85	
For >100, Deduct	-3.69	
05 05 19 00-0123 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	25.05	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.81	
05 05 19 00-0124 EA 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	33.94	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.43	
For >100, Deduct	-4.86	
<b>05 05 19 00-0125 Concrete Strike Anchors (05 05 19 00-0002)</b>		
Note: Includes nut and washer.		
05 05 19 00-0126 EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	11.26	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.08	
05 05 19 00-0127 EA 1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....	11.51	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.05	
For >100, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	12.00	
<i>For &gt;10 To 50, Deduct</i>	-0.53	
<i>For &gt;50 To 100, Deduct</i>	-1.10	
<i>For &gt;100, Deduct</i>	-2.19	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	13.00	
<i>For &gt;10 To 50, Deduct</i>	-0.53	
<i>For &gt;50 To 100, Deduct</i>	-1.12	
<i>For &gt;100, Deduct</i>	-2.24	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....	13.70	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.24	
<i>For &gt;100, Deduct</i>	-2.49	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....	14.44	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.26	
<i>For &gt;100, Deduct</i>	-2.52	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....	15.02	
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.28	
<i>For &gt;100, Deduct</i>	-2.55	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	20.03	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.78	
<i>For &gt;100, Deduct</i>	-3.56	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....	20.47	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.79	
<i>For &gt;100, Deduct</i>	-3.58	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	21.79	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.82	
<i>For &gt;100, Deduct</i>	-3.65	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	23.48	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.87	
<i>For &gt;100, Deduct</i>	-3.73	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	26.74	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.25	
<i>For &gt;100, Deduct</i>	-4.50	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	28.31	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.29	
<i>For &gt;100, Deduct</i>	-4.58	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	29.69	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.32	
<i>For &gt;100, Deduct</i>	-4.65	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....	34.50	
<i>For &gt;10 To 50, Deduct</i>	-1.25	
<i>For &gt;50 To 100, Deduct</i>	-2.74	
<i>For &gt;100, Deduct</i>	-5.49	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	35.97	
<i>For &gt;10 To 50, Deduct</i>	-1.25	
<i>For &gt;50 To 100, Deduct</i>	-2.78	
<i>For &gt;100, Deduct</i>	-5.56	
<b>05 05 19 00-0142 Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0002)</small>		
<b>05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	14.68	
<i>For &gt;10 To 50, Deduct</i>	-0.70	
<i>For &gt;50 To 100, Deduct</i>	-1.42	
<i>For &gt;100, Deduct</i>	-2.84	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	17.95	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.73	
<i>For &gt;100, Deduct</i>	-3.47	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	21.94	
<i>For &gt;10 To 50, Deduct</i>	-1.01	
<i>For &gt;50 To 100, Deduct</i>	-2.06	
<i>For &gt;100, Deduct</i>	-4.13	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	24.93	
<i>For &gt;10 To 50, Deduct</i>	-1.11	
<i>For &gt;50 To 100, Deduct</i>	-2.29	
<i>For &gt;100, Deduct</i>	-4.57	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	29.98	
<i>For &gt;10 To 50, Deduct</i>	-1.26	
<i>For &gt;50 To 100, Deduct</i>	-2.64	
<i>For &gt;100, Deduct</i>	-5.29	
<b>05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150	EA		1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	17.39	
			<i>For &gt;10 To 50, Deduct</i>	-0.70	
			<i>For &gt;50 To 100, Deduct</i>	-1.49	
			<i>For &gt;100, Deduct</i>	-2.98	
05 05 19 00-0151	EA		3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	23.08	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.86	
			<i>For &gt;100, Deduct</i>	-3.72	
05 05 19 00-0152	EA		1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	28.66	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.23	
			<i>For &gt;100, Deduct</i>	-4.46	
05 05 19 00-0153	EA		5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	35.75	
			<i>For &gt;10 To 50, Deduct</i>	-1.11	
			<i>For &gt;50 To 100, Deduct</i>	-2.56	
			<i>For &gt;100, Deduct</i>	-5.11	
05 05 19 00-0154	EA		3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	48.56	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.11	
			<i>For &gt;100, Deduct</i>	-6.22	
<b>05 05 19 00-0155</b>			<b>Single Bolt Expansion Anchors</b> (05 05 19 00-0002)		
			Note: Excludes bolt, nut and washer.		
05 05 19 00-0156	EA		1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	10.78	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.05	
05 05 19 00-0157	EA		5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	11.54	
			<i>For &gt;10 To 50, Deduct</i>	-0.53	
			<i>For &gt;50 To 100, Deduct</i>	-1.08	
			<i>For &gt;100, Deduct</i>	-2.17	
05 05 19 00-0158	EA		3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	13.03	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.23	
			<i>For &gt;100, Deduct</i>	-2.45	
05 05 19 00-0159	EA		1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	19.06	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.76	
			<i>For &gt;100, Deduct</i>	-3.51	
05 05 19 00-0160	EA		5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	26.55	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.24	
			<i>For &gt;100, Deduct</i>	-4.49	
05 05 19 00-0161	EA		3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	32.05	
			<i>For &gt;10 To 50, Deduct</i>	-1.25	
			<i>For &gt;50 To 100, Deduct</i>	-2.68	
			<i>For &gt;100, Deduct</i>	-5.37	
<b>05 05 19 00-0162</b>			<b>Concrete Lag Shield Anchors</b> (05 05 19 00-0002)		
			Note: Excludes lag bolt and washer.		
05 05 19 00-0163	EA		1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	10.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0164	EA		5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	13.02	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.23	
			<i>For &gt;100, Deduct</i>	-2.45	
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	13.71	
			<i>For &gt;10 To 50, Deduct</i>	-0.60	
			<i>For &gt;50 To 100, Deduct</i>	-1.24	
			<i>For &gt;100, Deduct</i>	-2.49	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	19.31	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.76	
			<i>For &gt;100, Deduct</i>	-3.52	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	25.61	
			<i>For &gt;10 To 50, Deduct</i>	-1.05	
			<i>For &gt;50 To 100, Deduct</i>	-2.22	
			<i>For &gt;100, Deduct</i>	-4.44	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	28.67	
			<i>For &gt;10 To 50, Deduct</i>	-1.25	
			<i>For &gt;50 To 100, Deduct</i>	-2.60	
			<i>For &gt;100, Deduct</i>	-5.20	
<b>05 05 19 00-0169</b>			<b>Chemical And Adhesive Anchors</b> (05 05 19 00-0001)		
<b>05 05 19 00-0170</b>			<b>Chemically Adhered Anchor Rods</b> (05 05 19 00-0169)		
			Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod.....	13.87	
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.18	
<i>For &gt;100, Deduct</i>	-2.36	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod.....	16.15	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.31	
<i>For &gt;100, Deduct</i>	-2.62	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod.....	20.04	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.64	
<i>For &gt;100, Deduct</i>	-3.27	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod.....	23.53	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.87	
<i>For &gt;100, Deduct</i>	-3.74	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod.....	25.00	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.90	
<i>For &gt;100, Deduct</i>	-3.81	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	30.94	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.35	
<i>For &gt;100, Deduct</i>	-4.71	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod.....	40.37	
<i>For &gt;10 To 50, Deduct</i>	-1.25	
<i>For &gt;50 To 100, Deduct</i>	-2.89	
<i>For &gt;100, Deduct</i>	-5.78	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	48.04	
<i>For &gt;10 To 50, Deduct</i>	-1.36	
<i>For &gt;50 To 100, Deduct</i>	-3.24	
<i>For &gt;100, Deduct</i>	-6.48	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod.....	65.79	
<i>For &gt;10 To 50, Deduct</i>	-1.76	
<i>For &gt;50 To 100, Deduct</i>	-4.29	
<i>For &gt;100, Deduct</i>	-8.58	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod.....	94.89	
<i>For &gt;10 To 50, Deduct</i>	-2.22	
<i>For &gt;50 To 100, Deduct</i>	-5.70	
<i>For &gt;100, Deduct</i>	-11.41	
<b>05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod</b> <small>(05 05 19 00-0169)</small>		
Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	12.54	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.22	
<i>For &gt;100, Deduct</i>	-2.44	
05 05 19 00-0183 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.71	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.53	
<i>For &gt;100, Deduct</i>	-3.06	
05 05 19 00-0184 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	17.87	
<i>For &gt;10 To 50, Deduct</i>	-0.85	
<i>For &gt;50 To 100, Deduct</i>	-1.73	
<i>For &gt;100, Deduct</i>	-3.45	
05 05 19 00-0185 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	23.04	
<i>For &gt;10 To 50, Deduct</i>	-1.05	
<i>For &gt;50 To 100, Deduct</i>	-2.16	
<i>For &gt;100, Deduct</i>	-4.31	
05 05 19 00-0186 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	28.52	
<i>For &gt;10 To 50, Deduct</i>	-1.25	
<i>For &gt;50 To 100, Deduct</i>	-2.59	
<i>For &gt;100, Deduct</i>	-5.19	
05 05 19 00-0187 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	31.73	
<i>For &gt;10 To 50, Deduct</i>	-1.36	
<i>For &gt;50 To 100, Deduct</i>	-2.83	
<i>For &gt;100, Deduct</i>	-5.66	
05 05 19 00-0188 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	42.10	
<i>For &gt;10 To 50, Deduct</i>	-1.76	
<i>For &gt;50 To 100, Deduct</i>	-3.70	
<i>For &gt;100, Deduct</i>	-7.39	
05 05 19 00-0189 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	48.27	
<i>For &gt;10 To 50, Deduct</i>	-1.99	
<i>For &gt;50 To 100, Deduct</i>	-4.19	
<i>For &gt;100, Deduct</i>	-8.39	
05 05 19 00-0190 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	55.39	
<i>For &gt;10 To 50, Deduct</i>	-2.22	
<i>For &gt;50 To 100, Deduct</i>	-4.72	
<i>For &gt;100, Deduct</i>	-9.43	
05 05 19 00-0191 EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	60.15	
<i>For &gt;10 To 50, Deduct</i>	-2.32	
<i>For &gt;50 To 100, Deduct</i>	-4.99	
<i>For &gt;100, Deduct</i>	-9.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192 EA 1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	66.75	
For >10 To 50, Deduct	-2.42	
For >50 To 100, Deduct	-5.30	
For >100, Deduct	-10.61	
05 05 19 00-0193 EA 1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	79.93	
For >10 To 50, Deduct	-2.63	
For >50 To 100, Deduct	-5.94	
For >100, Deduct	-11.87	
05 05 19 00-0194 EA 2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	109.37	
For >10 To 50, Deduct	-2.73	
For >50 To 100, Deduct	-6.82	
For >100, Deduct	-13.65	
<b>05 05 19 00-0195 Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)</b>		
05 05 19 00-0196 EA Grout Concrete Anchor Bolt or Threaded Rod.....	4.04	
For >10 To 50, Deduct	-0.20	
For >50 To 100, Deduct	-0.39	
For >100, Deduct	-0.79	
<b>05 05 19 00-0197 Other Concrete And Masonry Anchors (05 05 19 00-0001)</b>		
<b>05 05 19 00-0198 Tapcon Masonry Screws (05 05 19 00-0197)</b>		
Note: Includes drilling, Countersunk or hex head.		
05 05 19 00-0199 EA 3/16" x 1-1/4" Tapcon Masonry Screw.....	10.37	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.03	
05 05 19 00-0200 EA 3/16" x 2-1/4" Tapcon Masonry Screw.....	10.45	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.04	
05 05 19 00-0201 EA 3/16" x 3-1/4" Tapcon Masonry Screw.....	10.60	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.05	
05 05 19 00-0202 EA 1/4" x 1-1/4" Tapcon Masonry Screw.....	10.46	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.04	
05 05 19 00-0203 EA 1/4" x 2-1/4" Tapcon Masonry Screw.....	10.55	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.04	
05 05 19 00-0204 EA 1/4" x 3-1/4" Tapcon Masonry Screw.....	10.73	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.05	
<b>05 05 19 00-0205 Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)</b>		
Note: Includes drilling, Zinc plated.		
05 05 19 00-0206 EA 3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	10.87	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.06	
05 05 19 00-0207 EA 3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	11.15	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.07	
05 05 19 00-0208 EA 3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	11.22	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.08	
05 05 19 00-0209 EA 3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	11.36	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.08	
05 05 19 00-0210 EA 3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	11.47	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.09	
05 05 19 00-0211 EA 1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	11.71	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.05	
For >100, Deduct	-2.10	
05 05 19 00-0212 EA 1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	12.01	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
05 05 19 00-0213 EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	12.28	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener .....	13.05	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.08	
<i>For &gt;100, Deduct</i>	-2.17	
05 05 19 00-0215 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener .....	13.14	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.09	
<i>For &gt;100, Deduct</i>	-2.17	
05 05 19 00-0216 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener .....	13.61	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.10	
<i>For &gt;100, Deduct</i>	-2.20	
05 05 19 00-0217 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener .....	14.09	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.11	
<i>For &gt;100, Deduct</i>	-2.22	
05 05 19 00-0218 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener .....	14.40	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.12	
<i>For &gt;100, Deduct</i>	-2.24	
05 05 19 00-0219 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener .....	14.26	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.11	
<i>For &gt;100, Deduct</i>	-2.23	
05 05 19 00-0220 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener .....	14.71	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.13	
<i>For &gt;100, Deduct</i>	-2.25	
05 05 19 00-0221 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener .....	15.75	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.15	
<i>For &gt;100, Deduct</i>	-2.30	
<b>05 05 19 00-0222 Pin Bolt Drives</b> <small>(05 05 19 00-0197)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0223 EA 1/4" x 1" Pin Bolt Drive .....	6.48	
<i>For &gt;10 To 50, Deduct</i>	-0.30	
<i>For &gt;50 To 100, Deduct</i>	-0.62	
<i>For &gt;100, Deduct</i>	-1.23	
05 05 19 00-0224 EA 1/4" x 1-1/4" Pin Bolt Drive .....	6.48	
<i>For &gt;10 To 50, Deduct</i>	-0.30	
<i>For &gt;50 To 100, Deduct</i>	-0.62	
<i>For &gt;100, Deduct</i>	-1.23	
05 05 19 00-0225 EA 1/4" x 1-1/2" Pin Bolt Drive .....	6.54	
<i>For &gt;10 To 50, Deduct</i>	-0.30	
<i>For &gt;50 To 100, Deduct</i>	-0.62	
<i>For &gt;100, Deduct</i>	-1.24	
05 05 19 00-0226 EA 1/4" x 2" Pin Bolt Drive .....	6.55	
<i>For &gt;10 To 50, Deduct</i>	-0.30	
<i>For &gt;50 To 100, Deduct</i>	-0.62	
<i>For &gt;100, Deduct</i>	-1.24	
<b>05 05 19 00-0227 Powder Actuated, Shot-In Place Anchors</b> <small>(05 05 19 00-0197)</small>		
05 05 19 00-0228 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor .....	1.63	
<i>For &gt;10 To 50, Deduct</i>	-0.07	
<i>For &gt;50 To 100, Deduct</i>	-0.14	
<i>For &gt;100, Deduct</i>	-0.29	
05 05 19 00-0229 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor .....	1.72	
<i>For &gt;10 To 50, Deduct</i>	-0.07	
<i>For &gt;50 To 100, Deduct</i>	-0.15	
<i>For &gt;100, Deduct</i>	-0.30	
05 05 19 00-0230 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor .....	1.87	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.16	
<i>For &gt;100, Deduct</i>	-0.32	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor .....	2.07	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100, Deduct</i>	-0.35	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor .....	2.18	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.18	
<i>For &gt;100, Deduct</i>	-0.35	
<b>05 05 19 00-0233 Powder Actuated, Shot-In Place Anchors With Exposed Thread</b> <small>(05 05 19 00-0197)</small>		
05 05 19 00-0234 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor .....	1.94	
<i>For &gt;10 To 50, Deduct</i>	-0.07	
<i>For &gt;50 To 100, Deduct</i>	-0.16	
<i>For &gt;100, Deduct</i>	-0.31	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235	EA		0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor .....	2.62	
			<i>For &gt;10 To 50, Deduct</i>	-0.09	
			<i>For &gt;50 To 100, Deduct</i>	-0.19	
			<i>For &gt;100, Deduct</i>	-0.39	
<b>05 05 21 Fastening Methods for Metal</b> <small>(05 05)</small>					
05 05 21 00-0001			<b>Welding</b> <small>(05 05 21)</small>		
05 05 21 00-0002			<b>Welding Minimum Charge</b> <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003	EA		Welding Minimum Charge .....	395.74	
			Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004			<b>Spot Welding</b> <small>(05 05 21 00-0001)</small>		
			See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005	EA		Up To 15 Spot Weldings, Welds Up To 1" Length Each .....	10.20	
			<i>For Aluminum Welding, Add</i>	1.58	
			<i>For Stainless Steel Welding, Add</i>	2.61	
05 05 21 00-0006	EA		>15 Spot Weldings, Welds Up To 1" Length Each .....	7.95	
			<i>For Aluminum Welding, Add</i>	1.24	
			<i>For Stainless Steel Welding, Add</i>	2.05	
05 05 21 00-0007			<b>Field Welding (Seam And Stitch Welding)</b> <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008			<b>Vertical Fillet Welds</b> <small>(05 05 21 00-0007)</small>		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009	LF		1/8" Vertical Fillet Weld .....	6.40	
			<i>For Aluminum Welding, Add</i>	1.21	
			<i>For Stainless Steel Welding, Add</i>	1.92	
			<i>For Up To 25, Add</i>	2.14	
			<i>For &gt;25 To 50, Add</i>	1.52	
05 05 21 00-0010	LF		3/16" Vertical Fillet Weld .....	12.48	
			<i>For Aluminum Welding, Add</i>	2.18	
			<i>For Stainless Steel Welding, Add</i>	3.50	
			<i>For Up To 25, Add</i>	4.24	
			<i>For &gt;25 To 50, Add</i>	3.02	
05 05 21 00-0011	LF		1/4" Vertical Fillet Weld .....	18.73	
			<i>For Aluminum Welding, Add</i>	3.28	
			<i>For Stainless Steel Welding, Add</i>	5.27	
			<i>For Up To 25, Add</i>	6.36	
			<i>For &gt;25 To 50, Add</i>	4.53	
05 05 21 00-0012	LF		5/16" Vertical Fillet Weld .....	24.72	
			<i>For Aluminum Welding, Add</i>	4.34	
			<i>For Stainless Steel Welding, Add</i>	6.98	
			<i>For Up To 25, Add</i>	8.39	
			<i>For &gt;25 To 50, Add</i>	5.97	
05 05 21 00-0013	LF		3/8" Vertical Fillet Weld .....	31.22	
			<i>For Aluminum Welding, Add</i>	5.46	
			<i>For Stainless Steel Welding, Add</i>	8.78	
			<i>For Up To 25, Add</i>	10.60	
			<i>For &gt;25 To 50, Add</i>	7.55	
05 05 21 00-0014	LF		7/16" Vertical Fillet Weld .....	36.46	
			<i>For Aluminum Welding, Add</i>	6.09	
			<i>For Stainless Steel Welding, Add</i>	9.89	
			<i>For Up To 25, Add</i>	12.50	
			<i>For &gt;25 To 50, Add</i>	8.91	
05 05 21 00-0015	LF		1/2" Vertical Fillet Weld .....	42.67	
			<i>For Aluminum Welding, Add</i>	7.49	
			<i>For Stainless Steel Welding, Add</i>	12.03	
			<i>For Up To 25, Add</i>	14.48	
			<i>For &gt;25 To 50, Add</i>	10.31	
05 05 21 00-0016	LF		9/16" Vertical Fillet Weld .....	50.05	
			<i>For Aluminum Welding, Add</i>	8.48	
			<i>For Stainless Steel Welding, Add</i>	13.73	
			<i>For Up To 25, Add</i>	17.11	
			<i>For &gt;25 To 50, Add</i>	12.19	
05 05 21 00-0017	LF		5/8" Vertical Fillet Weld .....	58.02	
			<i>For Aluminum Welding, Add</i>	9.86	
			<i>For Stainless Steel Welding, Add</i>	15.95	
			<i>For Up To 25, Add</i>	19.83	
			<i>For &gt;25 To 50, Add</i>	14.12	
05 05 21 00-0018	LF		3/4" Vertical Fillet Weld .....	78.09	
			<i>For Aluminum Welding, Add</i>	13.69	
			<i>For Stainless Steel Welding, Add</i>	22.00	
			<i>For Up To 25, Add</i>	26.51	
			<i>For &gt;25 To 50, Add</i>	18.86	
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld .....	115.87	
			<i>For Aluminum Welding, Add</i>	19.59	
			<i>For Stainless Steel Welding, Add</i>	31.73	
			<i>For Up To 25, Add</i>	39.63	
			<i>For &gt;25 To 50, Add</i>	28.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0020 LF 1" Vertical Fillet Weld .....	155.76	
<i>For Aluminum Welding, Add</i>	27.07	
<i>For Stainless Steel Welding, Add</i>	43.57	
<i>For Up To 25, Add</i>	52.97	
<i>For &gt;25 To 50, Add</i>	37.71	
<b>05 05 21 00-0021 Horizontal Or Flat Fillet Welds</b> <small>(05 05 21 00-0007)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld .....	5.38	
<i>For Aluminum Welding, Add</i>	1.06	
<i>For Stainless Steel Welding, Add</i>	1.66	
<i>For Up To 25, Add</i>	1.78	
<i>For &gt;25 To 50, Add</i>	1.26	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld .....	10.55	
<i>For Aluminum Welding, Add</i>	1.91	
<i>For Stainless Steel Welding, Add</i>	3.04	
<i>For Up To 25, Add</i>	3.56	
<i>For &gt;25 To 50, Add</i>	2.53	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld .....	15.76	
<i>For Aluminum Welding, Add</i>	2.85	
<i>For Stainless Steel Welding, Add</i>	4.55	
<i>For Up To 25, Add</i>	5.31	
<i>For &gt;25 To 50, Add</i>	3.78	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld .....	20.84	
<i>For Aluminum Welding, Add</i>	3.79	
<i>For Stainless Steel Welding, Add</i>	6.04	
<i>For Up To 25, Add</i>	7.02	
<i>For &gt;25 To 50, Add</i>	4.99	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld .....	26.31	
<i>For Aluminum Welding, Add</i>	4.76	
<i>For Stainless Steel Welding, Add</i>	7.59	
<i>For Up To 25, Add</i>	8.87	
<i>For &gt;25 To 50, Add</i>	6.31	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld .....	30.63	
<i>For Aluminum Welding, Add</i>	5.24	
<i>For Stainless Steel Welding, Add</i>	8.47	
<i>For Up To 25, Add</i>	10.45	
<i>For &gt;25 To 50, Add</i>	7.44	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld .....	35.93	
<i>For Aluminum Welding, Add</i>	6.53	
<i>For Stainless Steel Welding, Add</i>	10.41	
<i>For Up To 25, Add</i>	12.10	
<i>For &gt;25 To 50, Add</i>	8.60	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld .....	42.12	
<i>For Aluminum Welding, Add</i>	7.36	
<i>For Stainless Steel Welding, Add</i>	11.83	
<i>For Up To 25, Add</i>	14.31	
<i>For &gt;25 To 50, Add</i>	10.18	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld .....	49.00	
<i>For Aluminum Welding, Add</i>	8.70	
<i>For Stainless Steel Welding, Add</i>	13.94	
<i>For Up To 25, Add</i>	16.59	
<i>For &gt;25 To 50, Add</i>	11.80	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld .....	65.83	
<i>For Aluminum Welding, Add</i>	11.96	
<i>For Stainless Steel Welding, Add</i>	19.06	
<i>For Up To 25, Add</i>	22.17	
<i>For &gt;25 To 50, Add</i>	15.76	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld .....	96.93	
<i>For Aluminum Welding, Add</i>	16.60	
<i>For Stainless Steel Welding, Add</i>	26.81	
<i>For Up To 25, Add</i>	33.07	
<i>For &gt;25 To 50, Add</i>	23.54	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld .....	130.81	
<i>For Aluminum Welding, Add</i>	23.50	
<i>For Stainless Steel Welding, Add</i>	37.56	
<i>For Up To 25, Add</i>	44.17	
<i>For &gt;25 To 50, Add</i>	31.41	
<b>05 05 23 Metal Fastenings</b> <small>(05 05)</small>		
<b>05 05 23 00-0001 Drilling In Steel Plates</b> <small>(05 05 23)</small>		
05 05 23 00-0002 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate .....	28.03	
<i>For Aluminum, Deduct</i>	-2.80	
<i>For Stainless Steel, Add</i>	3.50	
<i>For &gt;5 To 10, Deduct</i>	-2.80	
<i>For &gt;10 To 25, Deduct</i>	-7.01	
<i>For &gt;25 To 50, Deduct</i>	-9.81	
<i>For &gt;50, Deduct</i>	-14.02	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0003	EA	>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate .....	37.54	
		<i>For Aluminum, Deduct</i>	-3.75	
		<i>For Stainless Steel, Add</i>	4.69	
		<i>For &gt;5 To 10, Deduct</i>	-3.75	
		<i>For &gt;10 To 25, Deduct</i>	-9.39	
		<i>For &gt;25 To 50, Deduct</i>	-13.14	
		<i>For &gt;50, Deduct</i>	-18.77	
05 05 23 00-0004	EA	>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate .....	37.54	
		<i>For Aluminum, Deduct</i>	-3.75	
		<i>For Stainless Steel, Add</i>	4.69	
		<i>For &gt;5 To 10, Deduct</i>	-3.75	
		<i>For &gt;10 To 25, Deduct</i>	-9.39	
		<i>For &gt;25 To 50, Deduct</i>	-13.14	
		<i>For &gt;50, Deduct</i>	-18.77	
05 05 23 00-0005	EA	Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate .....	25.03	
		<i>For Aluminum, Deduct</i>	-2.50	
		<i>For Stainless Steel, Add</i>	3.13	
		<i>For &gt;5 To 10, Deduct</i>	-2.50	
		<i>For &gt;10 To 25, Deduct</i>	-6.26	
		<i>For &gt;25 To 50, Deduct</i>	-8.76	
		<i>For &gt;50, Deduct</i>	-12.52	
05 05 23 00-0006	EA	>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate .....	33.04	
		<i>For Aluminum, Deduct</i>	-3.30	
		<i>For Stainless Steel, Add</i>	4.13	
		<i>For &gt;5 To 10, Deduct</i>	-3.30	
		<i>For &gt;10 To 25, Deduct</i>	-8.26	
		<i>For &gt;25 To 50, Deduct</i>	-11.56	
		<i>For &gt;50, Deduct</i>	-16.52	
05 05 23 00-0007	EA	>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate .....	40.05	
		<i>For &gt;5 To 10, Deduct</i>	-4.01	
		<i>For &gt;10 To 25, Deduct</i>	-10.01	
		<i>For &gt;25 To 50, Deduct</i>	-14.02	
		<i>For &gt;50, Deduct</i>	-20.03	
05 05 23 00-0008		<b>Hex Bolts</b> <small>(05 05 23)</small> Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0287 for drilling into brick or block, 02 41 19 13-0297 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.		
05 05 23 00-0009		<b>A307B Heavy Hex Bolts</b> <small>(05 05 23 00-0008)</small> Note: Includes A307B heavy hex nut and two structural washers.		
05 05 23 00-0010		<b>Plain Finish A307B Heavy Hex Bolts</b> <small>(05 05 23 00-0009)</small>		
05 05 23 00-0011	EA	1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt .....	11.99	1.15
		<i>For &gt;10 To 50, Deduct</i>	-0.48	
		<i>For &gt;50 To 100, Deduct</i>	-1.02	
		<i>For &gt;100, Deduct</i>	-2.04	
05 05 23 00-0012	EA	1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt.....	13.37	1.15
		<i>For &gt;10 To 50, Deduct</i>	-0.48	
		<i>For &gt;50 To 100, Deduct</i>	-1.05	
		<i>For &gt;100, Deduct</i>	-2.11	
05 05 23 00-0013	EA	5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	13.41	1.15
		<i>For &gt;10 To 50, Deduct</i>	-0.48	
		<i>For &gt;50 To 100, Deduct</i>	-1.06	
		<i>For &gt;100, Deduct</i>	-2.11	
05 05 23 00-0014	EA	5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	16.05	1.32
		<i>For &gt;10 To 50, Deduct</i>	-0.55	
		<i>For &gt;50 To 100, Deduct</i>	-1.22	
		<i>For &gt;100, Deduct</i>	-2.45	
05 05 23 00-0015	EA	3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	15.73	1.15
		<i>For &gt;10 To 50, Deduct</i>	-0.48	
		<i>For &gt;50 To 100, Deduct</i>	-1.11	
		<i>For &gt;100, Deduct</i>	-2.23	
05 05 23 00-0016	EA	3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	18.93	1.32
		<i>For &gt;10 To 50, Deduct</i>	-0.55	
		<i>For &gt;50 To 100, Deduct</i>	-1.30	
		<i>For &gt;100, Deduct</i>	-2.59	
05 05 23 00-0017	EA	3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	24.29	1.38
		<i>For &gt;10 To 50, Deduct</i>	-0.57	
		<i>For &gt;50 To 100, Deduct</i>	-1.47	
		<i>For &gt;100, Deduct</i>	-2.93	
05 05 23 00-0018	EA	3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt.....	26.12	1.45
		<i>For &gt;10 To 50, Deduct</i>	-0.60	
		<i>For &gt;50 To 100, Deduct</i>	-1.56	
		<i>For &gt;100, Deduct</i>	-3.11	
05 05 23 00-0019	EA	7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	19.00	1.25
		<i>For &gt;10 To 50, Deduct</i>	-0.52	
		<i>For &gt;50 To 100, Deduct</i>	-1.26	
		<i>For &gt;100, Deduct</i>	-2.51	
05 05 23 00-0020	EA	7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	23.08	1.38
		<i>For &gt;10 To 50, Deduct</i>	-0.57	
		<i>For &gt;50 To 100, Deduct</i>	-1.44	
		<i>For &gt;100, Deduct</i>	-2.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0021 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	27.36 -0.60 -1.59 -3.18	1.45
05 05 23 00-0022 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	39.72 -0.63 -1.94 -3.89	1.52
05 05 23 00-0023 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	46.58 -0.72 -2.24 -4.47	1.72
05 05 23 00-0024 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	52.53 -0.77 -2.46 -4.92	1.84
<b>05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts</b> <small>(05 05 23 00-0009)</small>		
05 05 23 00-0026 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	12.67 -0.48 -1.04 -2.07	1.15
05 05 23 00-0027 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	13.83 -0.48 -1.07 -2.13	1.15
05 05 23 00-0028 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	15.08 -0.48 -1.10 -2.19	1.15
05 05 23 00-0029 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	17.72 -0.55 -1.27 -2.53	1.32
05 05 23 00-0030 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	17.63 -0.48 -1.16 -2.32	1.15
05 05 23 00-0031 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	22.44 -0.55 -1.38 -2.77	1.32
05 05 23 00-0032 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	30.34 -0.57 -1.62 -3.24	1.38
05 05 23 00-0033 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	35.91 -0.60 -1.80 -3.60	1.45
05 05 23 00-0034 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	23.97 -0.52 -1.38 -2.76	1.25
05 05 23 00-0035 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	28.68 -0.57 -1.58 -3.15	1.38
05 05 23 00-0036 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	34.59 -0.60 -1.77 -3.54	1.45
05 05 23 00-0037 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	52.82 -0.63 -2.27 -4.54	1.52
05 05 23 00-0038 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	52.44 -0.72 -2.38 -4.77	1.72
05 05 23 00-0039 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	66.10 -0.77 -2.80 -5.60	1.84
<b>05 05 23 00-0040 A325 High Strength Structural Bolts</b> <small>(05 05 23 00-0008)</small> Note: Includes A325 heavy hex nut and two structural washers.		
<b>05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts</b> <small>(05 05 23 00-0040)</small> Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0042 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt ..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	11.67 -0.48 -1.01 -2.02	1.15

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0043 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt .....	11.98	1.15
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.04	
05 05 23 00-0044 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt .....	12.95	1.15
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.09	
05 05 23 00-0045 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt .....	16.07	1.32
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.45	
05 05 23 00-0046 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt .....	18.89	1.38
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.33	
For >100, Deduct	-2.66	
05 05 23 00-0047 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt .....	14.31	1.15
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.08	
For >100, Deduct	-2.16	
05 05 23 00-0048 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt .....	17.52	1.32
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.52	
05 05 23 00-0049 EA 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt .....	20.17	1.38
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.36	
For >100, Deduct	-2.73	
05 05 23 00-0050 EA 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt .....	25.26	1.45
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.07	
05 05 23 00-0051 EA 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt .....	16.77	1.25
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 23 00-0052 EA 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt .....	20.70	1.38
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.75	
05 05 23 00-0053 EA 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt .....	23.85	1.45
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.50	
For >100, Deduct	-3.00	
05 05 23 00-0054 EA 7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt .....	25.93	1.52
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.20	
05 05 23 00-0055 EA 1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt .....	18.69	1.30
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.56	
05 05 23 00-0056 EA 1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt .....	22.70	1.45
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.94	
05 05 23 00-0057 EA 1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt .....	26.59	1.52
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.23	
05 05 23 00-0058 EA 1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt .....	34.66	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.88	
For >100, Deduct	-3.76	
05 05 23 00-0059 EA 1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt .....	32.96	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.67	
05 05 23 00-0060 EA 1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt .....	37.57	1.72
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-2.01	
For >100, Deduct	-4.02	
05 05 23 00-0061 EA 1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt .....	44.42	1.84
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-2.26	
For >100, Deduct	-4.52	
05 05 23 00-0062 EA 1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt .....	52.53	1.96
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-2.54	
For >100, Deduct	-5.08	

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

Note: Includes A325 heavy hex nut and structural washer.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0064 EA 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	12.28	1.15
<i>For &gt;10 To 50, Deduct</i>	-0.48	
<i>For &gt;50 To 100, Deduct</i>	-1.03	
<i>For &gt;100, Deduct</i>	-2.05	
05 05 23 00-0065 EA 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	12.50	1.15
<i>For &gt;10 To 50, Deduct</i>	-0.48	
<i>For &gt;50 To 100, Deduct</i>	-1.03	
<i>For &gt;100, Deduct</i>	-2.07	
05 05 23 00-0066 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.24	1.15
<i>For &gt;10 To 50, Deduct</i>	-0.48	
<i>For &gt;50 To 100, Deduct</i>	-1.08	
<i>For &gt;100, Deduct</i>	-2.15	
05 05 23 00-0067 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	16.99	1.32
<i>For &gt;10 To 50, Deduct</i>	-0.55	
<i>For &gt;50 To 100, Deduct</i>	-1.25	
<i>For &gt;100, Deduct</i>	-2.50	
05 05 23 00-0068 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	18.01	1.38
<i>For &gt;10 To 50, Deduct</i>	-0.57	
<i>For &gt;50 To 100, Deduct</i>	-1.31	
<i>For &gt;100, Deduct</i>	-2.62	
05 05 23 00-0069 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.90	1.15
<i>For &gt;10 To 50, Deduct</i>	-0.48	
<i>For &gt;50 To 100, Deduct</i>	-1.09	
<i>For &gt;100, Deduct</i>	-2.19	
05 05 23 00-0070 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.26	1.32
<i>For &gt;10 To 50, Deduct</i>	-0.55	
<i>For &gt;50 To 100, Deduct</i>	-1.28	
<i>For &gt;100, Deduct</i>	-2.56	
05 05 23 00-0071 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	21.33	1.38
<i>For &gt;10 To 50, Deduct</i>	-0.57	
<i>For &gt;50 To 100, Deduct</i>	-1.39	
<i>For &gt;100, Deduct</i>	-2.79	
05 05 23 00-0072 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	28.01	1.45
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.60	
<i>For &gt;100, Deduct</i>	-3.21	
05 05 23 00-0073 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	20.32	1.25
<i>For &gt;10 To 50, Deduct</i>	-0.52	
<i>For &gt;50 To 100, Deduct</i>	-1.29	
<i>For &gt;100, Deduct</i>	-2.58	
05 05 23 00-0074 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	22.80	1.38
<i>For &gt;10 To 50, Deduct</i>	-0.57	
<i>For &gt;50 To 100, Deduct</i>	-1.43	
<i>For &gt;100, Deduct</i>	-2.86	
05 05 23 00-0075 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	26.40	1.45
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.56	
<i>For &gt;100, Deduct</i>	-3.13	
05 05 23 00-0076 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	33.57	1.52
<i>For &gt;10 To 50, Deduct</i>	-0.63	
<i>For &gt;50 To 100, Deduct</i>	-1.79	
<i>For &gt;100, Deduct</i>	-3.58	
05 05 23 00-0077 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	21.45	1.30
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.35	
<i>For &gt;100, Deduct</i>	-2.70	
05 05 23 00-0078 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	29.03	1.45
<i>For &gt;10 To 50, Deduct</i>	-0.60	
<i>For &gt;50 To 100, Deduct</i>	-1.63	
<i>For &gt;100, Deduct</i>	-3.26	
05 05 23 00-0079 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	31.88	1.52
<i>For &gt;10 To 50, Deduct</i>	-0.63	
<i>For &gt;50 To 100, Deduct</i>	-1.75	
<i>For &gt;100, Deduct</i>	-3.49	
05 05 23 00-0080 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	41.19	1.62
<i>For &gt;10 To 50, Deduct</i>	-0.67	
<i>For &gt;50 To 100, Deduct</i>	-2.04	
<i>For &gt;100, Deduct</i>	-4.08	
05 05 23 00-0081 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	40.93	1.62
<i>For &gt;10 To 50, Deduct</i>	-0.67	
<i>For &gt;50 To 100, Deduct</i>	-2.03	
<i>For &gt;100, Deduct</i>	-4.07	
05 05 23 00-0082 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	43.66	1.72
<i>For &gt;10 To 50, Deduct</i>	-0.72	
<i>For &gt;50 To 100, Deduct</i>	-2.16	
<i>For &gt;100, Deduct</i>	-4.33	
05 05 23 00-0083 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	51.40	1.84
<i>For &gt;10 To 50, Deduct</i>	-0.77	
<i>For &gt;50 To 100, Deduct</i>	-2.43	
<i>For &gt;100, Deduct</i>	-4.87	
05 05 23 00-0084 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	59.81	1.96
<i>For &gt;10 To 50, Deduct</i>	-0.82	
<i>For &gt;50 To 100, Deduct</i>	-2.72	
<i>For &gt;100, Deduct</i>	-5.44	

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-0085		<b>A490 High Strength Structural Bolts</b> <small>(05 05 23 00-0085)</small>			
		Note: Includes A490 heavy hex nut and two structural washers.			
05 05 23 00-0086		<b>Plain Finish A490 High Strength Structural Bolts</b> <small>(05 05 23 00-0085)</small>			
05 05 23 00-0087	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	13.44		1.15
		For >10 To 50, Deduct	-0.48		
		For >50 To 100, Deduct	-1.06		
		For >100, Deduct	-2.11		
05 05 23 00-0088	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	19.39		1.32
		For >10 To 50, Deduct	-0.55		
		For >50 To 100, Deduct	-1.31		
		For >100, Deduct	-2.62		
05 05 23 00-0089	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	20.79		1.38
		For >10 To 50, Deduct	-0.57		
		For >50 To 100, Deduct	-1.38		
		For >100, Deduct	-2.76		
05 05 23 00-0090	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	15.31		1.15
		For >10 To 50, Deduct	-0.48		
		For >50 To 100, Deduct	-1.10		
		For >100, Deduct	-2.21		
05 05 23 00-0091	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	18.66		1.32
		For >10 To 50, Deduct	-0.55		
		For >50 To 100, Deduct	-1.29		
		For >100, Deduct	-2.58		
05 05 23 00-0092	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	22.01		1.38
		For >10 To 50, Deduct	-0.57		
		For >50 To 100, Deduct	-1.41		
		For >100, Deduct	-2.82		
05 05 23 00-0093	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	28.84		1.45
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.62		
		For >100, Deduct	-3.25		
05 05 23 00-0094	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	17.92		1.25
		For >10 To 50, Deduct	-0.52		
		For >50 To 100, Deduct	-1.23		
		For >100, Deduct	-2.46		
05 05 23 00-0095	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	21.07		1.38
		For >10 To 50, Deduct	-0.57		
		For >50 To 100, Deduct	-1.38		
		For >100, Deduct	-2.77		
05 05 23 00-0096	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	31.33		1.45
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.69		
		For >100, Deduct	-3.37		
05 05 23 00-0097	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	21.39		1.30
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.35		
		For >100, Deduct	-2.69		
05 05 23 00-0098	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	25.73		1.45
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.55		
		For >100, Deduct	-3.09		
05 05 23 00-0099	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	29.85		1.52
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.70		
		For >100, Deduct	-3.39		
05 05 23 00-0100	EA	1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt	37.78		1.62
		For >10 To 50, Deduct	-0.67		
		For >50 To 100, Deduct	-1.96		
		For >100, Deduct	-3.91		
05 05 23 00-0101	EA	1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	49.08		1.72
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-2.30		
		For >100, Deduct	-4.60		
05 05 23 00-0102	EA	1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	51.59		1.84
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-2.44		
		For >100, Deduct	-4.88		
05 05 23 00-0103	EA	1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	53.76		1.96
		For >10 To 50, Deduct	-0.82		
		For >50 To 100, Deduct	-2.57		
		For >100, Deduct	-5.14		
05 05 23 00-0104		<b>Hex Head Bolts</b> <small>(05 05 23 00-0008)</small>			
05 05 23 00-0105		<b>Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0104)</small>			
05 05 23 00-0106		<b>1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>			
05 05 23 00-0107	EA	1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.42		
		For >100 To 250, Deduct	-1.26		
		For >250 To 500, Deduct	-1.58		
		For >500, Deduct	-1.90		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.45	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.53	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0110 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.57	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0111 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.79	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0112 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.82	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0113 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.94	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0114 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.13	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0115 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.17	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0116 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.35	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0117 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.67	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0118 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.80	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0119 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.99	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0120 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.59	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0121 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.88	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0122 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.96	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0123 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>		
05 05 23 00-0124 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.49	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0125 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.52	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0126 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.59	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0127 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.64	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0128 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.87	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0129	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.99	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0130	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.04	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0131	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.34	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0132	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.52	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0133	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.58	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0134	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.82	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0135	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.89	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0136	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.55	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0137	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.07	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0138	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.36	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0139	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0140		<b>3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>		
05 05 23 00-0141	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.57	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0142	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.60	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0143	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.70	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0144	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.78	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0145	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.03	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0146	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.18	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0147	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.33	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0148	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0149	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.86	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.98	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0152 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.47	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0153 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.55	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0154 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0155 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0156 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.10	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0158 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.85	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0159 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.97	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0160 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0161 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0162 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.53	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0163 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0164 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0165 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.38	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0166 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0167 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.16	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0168 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0169 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.55	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0170 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.86	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0171	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.11	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0172	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
<b>05 05 23 00-0173</b>			<b>1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small></b>		
05 05 23 00-0174	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.75	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0175	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.90	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0176	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.05	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0177	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.40	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0178	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.55	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0179	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0180	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0181	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0182	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0183	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0184	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.84	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0185	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.11	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0186	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.53	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0187	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.69	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0188	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.15	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0189	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.56	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0190	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.72	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0191	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.37	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.55	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
<b>05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small></b>		
05 05 23 00-0194 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.90	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0195 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.11	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0196 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.16	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0197 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.01	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0198 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.28	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0199 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.37	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0200 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.58	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0201 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.65	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0202 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.88	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0203 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.11	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0204 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.17	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0205 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.37	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0206 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.77	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0207 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.01	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0208 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.25	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0209 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.65	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0210 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.93	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0211 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.12	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0212 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.41	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0213		<b>5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>		
05 05 23 00-0214	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0215	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.39	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0216	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.57	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0217	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.99	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0218	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0219	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.58	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0220	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.18	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0221	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.69	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0222	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.08	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0223	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.43	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0224	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.48	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0225	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.15	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0226	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.71	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0227	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0228	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.87	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0229	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.72	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0230	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.33	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0231	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.95	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0232	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.43	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0233		<b>3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>		
05 05 23 00-0234	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.71	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0235 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.99	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0236 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.24	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0237 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.74	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0238 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.13	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0239 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.47	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0240 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.03	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0241 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.51	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0242 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.90	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0243 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.86	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0244 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.18	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0245 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.78	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0246 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.99	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0247 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.39	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0248 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.04	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0249 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.07	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0250 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.71	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0251 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.58	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0252 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.41	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-0253 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0105)</small>		
05 05 23 00-0254 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.07	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0255 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.29	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0256	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.41	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0257	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.91	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0258	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.55	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0259	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.29	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0260	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0261	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.17	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0262	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0263	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.41	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0264	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.77	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0265	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0266	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	19.65	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0267	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	20.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0268	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	21.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0269	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	22.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0270	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	23.24	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0271	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	24.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0272	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	24.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0273			<b>1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-</small>		
			<small>0105)</small>		
05 05 23 00-0274	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.11	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0275	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.67	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0276	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0277 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.06	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0278 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.18	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0279 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.52	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0280 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.59	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0281 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.71	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0282 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.45	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0283 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.98	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0284 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.92	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0285 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.04	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0286 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.97	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0287 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.93	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0288 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.88	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0289 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.98	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0290 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.94	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0291 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.92	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
<b>05 05 23 00-0292 Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0104)</small>		
<b>05 05 23 00-0293 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small>		
05 05 23 00-0294 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.48	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0295 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.53	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0296 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.57	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0297 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.65	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0298 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.91	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0299	EA	1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.05	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0300	EA	1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.21	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0301	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.52	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0302	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.71	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0303	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.85	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0304	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.17	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0305	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.30	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0306	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.42	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0307	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.78	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0308	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.96	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0309	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.13	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0310</b>		<b>5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small>		
05 05 23 00-0311	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	6.57	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0312	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	6.61	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0313	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	6.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0314	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	6.78	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0315	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.04	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0316	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.18	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0317	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.42	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0318	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.73	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0319	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.92	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0320 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.10 -1.33 -1.67 -2.00	
05 05 23 00-0321 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.64 -1.37 -1.71 -2.06	
05 05 23 00-0322 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.70 -1.37 -1.71 -2.06	
05 05 23 00-0323 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.94 -1.37 -1.71 -2.06	
05 05 23 00-0324 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.45 -1.41 -1.76 -2.11	
05 05 23 00-0325 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.78 -1.41 -1.76 -2.11	
05 05 23 00-0326 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.10 -1.41 -1.76 -2.11	
<b>05 05 23 00-0327 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small>		
05 05 23 00-0328 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	6.63 -1.26 -1.58 -1.90	
05 05 23 00-0329 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	6.66 -1.26 -1.58 -1.90	
05 05 23 00-0330 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	6.77 -1.26 -1.58 -1.90	
05 05 23 00-0331 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	6.89 -1.26 -1.58 -1.90	
05 05 23 00-0332 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	7.19 -1.30 -1.62 -1.95	
05 05 23 00-0333 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	7.32 -1.30 -1.62 -1.95	
05 05 23 00-0334 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	7.54 -1.30 -1.62 -1.95	
05 05 23 00-0335 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	7.95 -1.33 -1.67 -2.00	
05 05 23 00-0336 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.46 -1.33 -1.67 -2.00	
05 05 23 00-0337 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.69 -1.33 -1.67 -2.00	
05 05 23 00-0338 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.17 -1.37 -1.71 -2.06	
05 05 23 00-0339 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.39 -1.37 -1.71 -2.06	
05 05 23 00-0340 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.77 -1.37 -1.71 -2.06	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0341 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.24	
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-1.76	
For >500, Deduct	-2.11	
05 05 23 00-0342 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.74	
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-1.76	
For >500, Deduct	-2.11	
05 05 23 00-0343 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.15	
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-1.76	
For >500, Deduct	-2.11	
<b>05 05 23 00-0344 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)</b>		
05 05 23 00-0345 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.76	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0346 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.86	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0347 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.12	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0348 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.51	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0349 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.69	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0350 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.87	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0351 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.28	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0352 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.28	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0353 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.73	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0354 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.05	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0355 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.25	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0356 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.46	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0357 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.94	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0358 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.23	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0359 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.52	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
<b>05 05 23 00-0360 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)</b>		
05 05 23 00-0361 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	7.90	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0362 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.04 -1.44 -1.81 -2.17	
05 05 23 00-0363 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.18 -1.44 -1.81 -2.17	
05 05 23 00-0364 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.61 -1.48 -1.85 -2.22	
05 05 23 00-0365 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.83 -1.48 -1.85 -2.22	
05 05 23 00-0366 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.07 -1.48 -1.85 -2.22	
05 05 23 00-0367 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	9.47 -1.52 -1.90 -2.27	
05 05 23 00-0368 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.26 -1.52 -1.90 -2.27	
05 05 23 00-0369 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.31 -1.52 -1.90 -2.27	
05 05 23 00-0370 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	11.02 -1.55 -1.94 -2.33	
05 05 23 00-0371 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	11.33 -1.55 -1.94 -2.33	
05 05 23 00-0372 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	12.11 -1.55 -1.94 -2.33	
05 05 23 00-0373 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	13.00 -1.59 -1.99 -2.38	
05 05 23 00-0374 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	13.45 -1.59 -1.99 -2.38	
05 05 23 00-0375 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	13.61 -1.59 -1.99 -2.38	
05 05 23 00-0376 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	14.60 -1.62 -2.03 -2.44	
05 05 23 00-0377 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	15.38 -1.62 -2.03 -2.44	
05 05 23 00-0378 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.47 -1.62 -2.03 -2.44	
05 05 23 00-0379 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.89 -1.62 -2.03 -2.44	
<b>05 05 23 00-0380 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small> .....		
05 05 23 00-0381 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.32 -1.44 -1.81 -2.17	
05 05 23 00-0382 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	8.58 -1.44 -1.81 -2.17	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0383 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	8.81	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0384 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.24	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0385 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.56	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0386 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.91	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0387 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.50	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0388 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.87	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0389 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.22	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0390 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.80	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0391 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.18	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0392 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.45	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0393 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.19	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0394 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.71	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0395 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.58	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0396 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.59	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0397 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.91	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0398 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	19.22	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0399 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	20.01	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
<b>05 05 23 00-0400 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)</b>		
05 05 23 00-0401 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.49	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0402 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.58	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0403 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.66	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0404 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.08 -1.66 -2.08 -2.49	
05 05 23 00-0405 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.50 -1.66 -2.08 -2.49	
05 05 23 00-0406 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.88 -1.66 -2.08 -2.49	
05 05 23 00-0407 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	11.45 -1.70 -2.12 -2.54	
05 05 23 00-0408 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	12.18 -1.70 -2.12 -2.54	
05 05 23 00-0409 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	12.58 -1.70 -2.12 -2.54	
05 05 23 00-0410 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	12.96 -1.73 -2.17 -2.60	
05 05 23 00-0411 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	13.60 -1.73 -2.17 -2.60	
05 05 23 00-0412 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	14.60 -1.73 -2.17 -2.60	
05 05 23 00-0413 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	15.69 -1.77 -2.21 -2.65	
05 05 23 00-0414 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.52 -1.77 -2.21 -2.65	
05 05 23 00-0415 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.64 -1.77 -2.21 -2.65	
05 05 23 00-0416 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	18.32 -1.80 -2.26 -2.71	
05 05 23 00-0417 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	19.44 -1.80 -2.26 -2.71	
05 05 23 00-0418 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	21.07 -1.80 -2.26 -2.71	
05 05 23 00-0419 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	21.65 -1.80 -2.26 -2.71	
<b>05 05 23 00-0420 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small>		
05 05 23 00-0421 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.43 -1.62 -2.03 -2.44	
05 05 23 00-0422 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.59 -1.62 -2.03 -2.44	
05 05 23 00-0423 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	10.68 -1.62 -2.03 -2.44	
05 05 23 00-0424 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	11.22 -1.66 -2.08 -2.49	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0425	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.64	
			<i>For &gt;100 To 250, Deduct</i>	-1.66	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0426	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.66	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0427	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0428	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.29	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0429	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.15	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0430	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.73	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0431	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.44	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0432	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.30	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0433	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0434	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.61	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0435	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	19.12	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0436	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	20.64	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0437	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	21.10	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0438	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	22.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0439	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	22.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0440			<b>7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> (05 05 23 00-0292) .....	12.51	
	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0442	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0443	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0444	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.46	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0445	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.30	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0446 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	14.86 -1.84 -2.30 -2.76	
05 05 23 00-0447 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	15.46 -1.88 -2.35 -2.82	
05 05 23 00-0448 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.44 -1.88 -2.35 -2.82	
05 05 23 00-0449 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	17.19 -1.88 -2.35 -2.82	
05 05 23 00-0450 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	17.73 -1.91 -2.39 -2.87	
05 05 23 00-0451 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	18.35 -1.91 -2.39 -2.87	
05 05 23 00-0452 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	21.01 -1.91 -2.39 -2.87	
05 05 23 00-0453 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	22.15 -1.95 -2.44 -2.93	
05 05 23 00-0454 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	23.31 -1.95 -2.44 -2.93	
05 05 23 00-0455 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	23.39 -1.95 -2.44 -2.93	
05 05 23 00-0456 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	25.26 -1.99 -2.48 -2.98	
05 05 23 00-0457 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	26.40 -1.99 -2.48 -2.98	
05 05 23 00-0458 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	27.38 -1.99 -2.48 -2.98	
05 05 23 00-0459 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	28.35 -1.99 -2.48 -2.98	
<b>05 05 23 00-0460 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0292)</small>		
05 05 23 00-0461 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	14.37 -1.80 -2.26 -2.71	
05 05 23 00-0462 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	14.44 -1.80 -2.26 -2.71	
05 05 23 00-0463 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	15.25 -1.84 -2.30 -2.76	
05 05 23 00-0464 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.06 -1.84 -2.30 -2.76	
05 05 23 00-0465 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	16.66 -1.84 -2.30 -2.76	
05 05 23 00-0466 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	17.60 -1.88 -2.35 -2.82	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0467 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.55	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0468 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	19.93	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0469 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	21.10	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0470 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	21.40	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0471 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	23.32	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0472 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	24.75	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0473 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	26.80	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0474 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	27.39	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0475 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	34.15	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0476 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	34.67	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0477 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	36.08	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0478 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	37.05	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
<b>05 05 23 00-0479 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0104)</b>		
<b>05 05 23 00-0480 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)</b>		
05 05 23 00-0481 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.51	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0482 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.60	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0483 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.65	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0484 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.76	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0485 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.99	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.62	
For >500, Deduct	-1.95	
05 05 23 00-0486 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.11	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.62	
For >500, Deduct	-1.95	
05 05 23 00-0487 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.22	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.62	
For >500, Deduct	-1.95	
05 05 23 00-0488 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.41	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0489 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.73	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0490 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.03	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0491 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0492 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.52	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0493 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0494 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.06	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0495 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.45	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0496 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.63	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0497 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0479)</small>		
05 05 23 00-0498 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.59	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0499 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.65	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0500 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.84	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0501 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.88	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0502 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.15	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0503 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.43	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0504 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.52	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0505 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.86	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0506 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.04	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0507 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.45	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0508 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.87	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0509 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.02	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	

## 05 Metals

## 05 05 Common Work Results For Metals

## 05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0510	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.37	
			<i>For &gt;250 To 500, Deduct</i>	-1.71	
			<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0511	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0512	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0513	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.14	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0514			<b>3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> (05 05 23 00-0479)		
05 05 23 00-0515	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.26	
			<i>For &gt;250 To 500, Deduct</i>	-1.58	
			<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0516	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.26	
			<i>For &gt;250 To 500, Deduct</i>	-1.58	
			<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0517	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.26	
			<i>For &gt;250 To 500, Deduct</i>	-1.58	
			<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0518	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.05	
			<i>For &gt;100 To 250, Deduct</i>	-1.26	
			<i>For &gt;250 To 500, Deduct</i>	-1.58	
			<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0519	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.35	
			<i>For &gt;100 To 250, Deduct</i>	-1.30	
			<i>For &gt;250 To 500, Deduct</i>	-1.62	
			<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0520	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.57	
			<i>For &gt;100 To 250, Deduct</i>	-1.30	
			<i>For &gt;250 To 500, Deduct</i>	-1.62	
			<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0521	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.77	
			<i>For &gt;100 To 250, Deduct</i>	-1.30	
			<i>For &gt;250 To 500, Deduct</i>	-1.62	
			<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0522	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.33	
			<i>For &gt;250 To 500, Deduct</i>	-1.67	
			<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0523	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.84	
			<i>For &gt;100 To 250, Deduct</i>	-1.33	
			<i>For &gt;250 To 500, Deduct</i>	-1.67	
			<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0524	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.33	
			<i>For &gt;250 To 500, Deduct</i>	-1.67	
			<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0525	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.17	
			<i>For &gt;100 To 250, Deduct</i>	-1.37	
			<i>For &gt;250 To 500, Deduct</i>	-1.71	
			<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0526	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.37	
			<i>For &gt;250 To 500, Deduct</i>	-1.71	
			<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0527	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.69	
			<i>For &gt;100 To 250, Deduct</i>	-1.37	
			<i>For &gt;250 To 500, Deduct</i>	-1.71	
			<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0528	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.18	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0529	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.73	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0530	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.04	
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-1.76	
			<i>For &gt;500, Deduct</i>	-2.11	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 05 23 00-0531</b>	<b>7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0479)</small>			
05 05 23 00-0532	EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0533	EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.94		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0534	EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.29		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0535	EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.50		
	<i>For &gt;100 To 250, Deduct</i>		-1.48	
	<i>For &gt;250 To 500, Deduct</i>		-1.85	
	<i>For &gt;500, Deduct</i>		-2.22	
05 05 23 00-0536	EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.90		
	<i>For &gt;100 To 250, Deduct</i>		-1.48	
	<i>For &gt;250 To 500, Deduct</i>		-1.85	
	<i>For &gt;500, Deduct</i>		-2.22	
05 05 23 00-0537	EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.11		
	<i>For &gt;100 To 250, Deduct</i>		-1.48	
	<i>For &gt;250 To 500, Deduct</i>		-1.85	
	<i>For &gt;500, Deduct</i>		-2.22	
05 05 23 00-0538	EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.33		
	<i>For &gt;100 To 250, Deduct</i>		-1.52	
	<i>For &gt;250 To 500, Deduct</i>		-1.90	
	<i>For &gt;500, Deduct</i>		-2.27	
05 05 23 00-0539	EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.21		
	<i>For &gt;100 To 250, Deduct</i>		-1.52	
	<i>For &gt;250 To 500, Deduct</i>		-1.90	
	<i>For &gt;500, Deduct</i>		-2.27	
05 05 23 00-0540	EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.89		
	<i>For &gt;100 To 250, Deduct</i>		-1.52	
	<i>For &gt;250 To 500, Deduct</i>		-1.90	
	<i>For &gt;500, Deduct</i>		-2.27	
05 05 23 00-0541	EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.53		
	<i>For &gt;100 To 250, Deduct</i>		-1.55	
	<i>For &gt;250 To 500, Deduct</i>		-1.94	
	<i>For &gt;500, Deduct</i>		-2.33	
05 05 23 00-0542	EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.77		
	<i>For &gt;100 To 250, Deduct</i>		-1.55	
	<i>For &gt;250 To 500, Deduct</i>		-1.94	
	<i>For &gt;500, Deduct</i>		-2.33	
05 05 23 00-0543	EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.12		
	<i>For &gt;100 To 250, Deduct</i>		-1.55	
	<i>For &gt;250 To 500, Deduct</i>		-1.94	
	<i>For &gt;500, Deduct</i>		-2.33	
05 05 23 00-0544	EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.84		
	<i>For &gt;100 To 250, Deduct</i>		-1.59	
	<i>For &gt;250 To 500, Deduct</i>		-1.99	
	<i>For &gt;500, Deduct</i>		-2.38	
05 05 23 00-0545	EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.99		
	<i>For &gt;100 To 250, Deduct</i>		-1.59	
	<i>For &gt;250 To 500, Deduct</i>		-1.99	
	<i>For &gt;500, Deduct</i>		-2.38	
05 05 23 00-0546	EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.08		
	<i>For &gt;100 To 250, Deduct</i>		-1.59	
	<i>For &gt;250 To 500, Deduct</i>		-1.99	
	<i>For &gt;500, Deduct</i>		-2.38	
<b>05 05 23 00-0547</b>	<b>1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0479)</small>			
05 05 23 00-0548	EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.14		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0549	EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.39		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0550	EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.55		
	<i>For &gt;100 To 250, Deduct</i>		-1.44	
	<i>For &gt;250 To 500, Deduct</i>		-1.81	
	<i>For &gt;500, Deduct</i>		-2.17	
05 05 23 00-0551	EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.90		
	<i>For &gt;100 To 250, Deduct</i>		-1.48	
	<i>For &gt;250 To 500, Deduct</i>		-1.85	
	<i>For &gt;500, Deduct</i>		-2.22	
05 05 23 00-0552	EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.18		
	<i>For &gt;100 To 250, Deduct</i>		-1.48	
	<i>For &gt;250 To 500, Deduct</i>		-1.85	
	<i>For &gt;500, Deduct</i>		-2.22	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0553	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0554	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0555	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0556	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0557	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0558	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0559	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.24	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0560	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.06	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0561	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.39	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0562	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.30	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0563	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.00	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0564	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.66	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0565	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.00	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0566	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.64	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
<b>05 05 23 00-0567</b>			<b>9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)</b>		
05 05 23 00-0568	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.37	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0569	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.53	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0570	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0571	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0572	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0573	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.23	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0574 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.75	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0575 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.45	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0576 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.78	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0577 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.23	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0578 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.96	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0579 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.74	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0580 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.18	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0581 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.21	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0582 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.58	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
<b>05 05 23 00-0583 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0479)</small>		
05 05 23 00-0584 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.82	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0585 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.97	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0586 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.37	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0587 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.12	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0588 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.59	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0589 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0590 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.20	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0591 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.04	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0592 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.40	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0593 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.98	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0594 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.37	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0595	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.19	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0596	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0597	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0598	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.66	
			<i>For &gt;100 To 250, Deduct</i>	-1.77	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0599	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.50	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0600	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0601	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.48	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0602	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.20	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-0603</b>			<b>3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0479)</small>		
05 05 23 00-0604	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.70	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0605	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.86	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0606	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0607	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.40	
			<i>For &gt;100 To 250, Deduct</i>	-1.66	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0608	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.74	
			<i>For &gt;100 To 250, Deduct</i>	-1.66	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0609	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.74	
			<i>For &gt;100 To 250, Deduct</i>	-1.66	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0610	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0611	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0612	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.70	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0613	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.46	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0614	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.17	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0615	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.50	
			<i>For &gt;100 To 250, Deduct</i>	-1.73	
			<i>For &gt;250 To 500, Deduct</i>	-2.17	
			<i>For &gt;500, Deduct</i>	-2.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0616 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.31	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0617 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.02	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0618 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.39	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0619 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.32	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0620 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.61	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0621 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.54	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0622 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.88	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-0623 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)</b>		
05 05 23 00-0624 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.01	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0625 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.45	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0626 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.29	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0627 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.61	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0628 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.76	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0629 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.22	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0630 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.40	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0631 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.22	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0632 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.29	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0633 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.48	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0634 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.56	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0635 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.77	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0636 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.94	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0637	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.22	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0638	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0639	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0640	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.12	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0641	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	
<b>05 05 23 00-0642</b>			<b>1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)</b>		
05 05 23 00-0643	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0644	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.37	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0645	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.04	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0646	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.86	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0647	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.41	
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-2.30	
			<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0648	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.00	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0649	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0650	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.11	
			<i>For &gt;100 To 250, Deduct</i>	-1.88	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0651	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.12	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0652	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.87	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0653	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.39	
			<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0654	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0655	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0656	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.95	
			<i>For &gt;250 To 500, Deduct</i>	-2.44	
			<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0657	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.68	
			<i>For &gt;100 To 250, Deduct</i>	-1.99	
			<i>For &gt;250 To 500, Deduct</i>	-2.48	
			<i>For &gt;500, Deduct</i>	-2.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.90	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0659 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	41.09	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0660 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	43.05	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
<b>05 05 23 00-0661 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0104)</small>		
<b>05 05 23 00-0662 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0661)</small>		
05 05 23 00-0663 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.64	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0664 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.65	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0665 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.67	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0666 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.90	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0667 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.18	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0668 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.31	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0669 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.37	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0670 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.57	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0671 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.73	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0672 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.77	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0673 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.06	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0674 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.19	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0675 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.25	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0676 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.56	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0677 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.94	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0678 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.43	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0679		<b>5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <i>(05 05 23 00-0661)</i>		
05 05 23 00-0680	EA	5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.53	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0681	EA	5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.97	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0682	EA	5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.01	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0683	EA	5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.03	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0684	EA	5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.40	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0685	EA	5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.81	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0686	EA	5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.89	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0687	EA	5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.18	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0688	EA	5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.22	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0689	EA	5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.55	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0690	EA	5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.82	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0691	EA	5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.94	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0692	EA	5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.26	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0693	EA	5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.09	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0694	EA	5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.59	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0695	EA	5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.06	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0696		<b>3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <i>(05 05 23 00-0661)</i>		
05 05 23 00-0697	EA	3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0698	EA	3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.77	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0699	EA	3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	6.88	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.14	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0701 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.43	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0702 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.65	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0703 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	7.81	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0704 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.21	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0705 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.32	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0706 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.59	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0707 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.88	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0708 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.25	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0709 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.31	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0710 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.53	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0711 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.56	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0712 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.00	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0713 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0661)</small>		
05 05 23 00-0714 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.23	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0715 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.70	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0716 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.07	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0717 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.87	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0718 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.90	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0719 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.94	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0720 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.42	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0721	EA		7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0722	EA		7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0723	EA		7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0724	EA		7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
<b>05 05 23 00-0725 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0661)</small>					
05 05 23 00-0726	EA		1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.02	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0727	EA		1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.18	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0728	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0729	EA		1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.02	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0730	EA		1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0731	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0732	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0733	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.13	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0734	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0735	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0736	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.22	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0737	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0738	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.52	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0739	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0740	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.92	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-0741	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.53	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.77	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0743 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.82	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0744 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.96	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
<b>05 05 23 00-0745 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0661)</small>		
05 05 23 00-0746 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.48	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0747 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.72	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0748 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.88	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0749 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.33	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0750 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.69	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0751 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.47	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0752 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.78	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0753 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.92	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0754 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.16	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0755 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.66	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0756 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.94	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0757 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.75	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0758 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.98	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0759 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.40	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0760 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.82	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0761 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.60	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0762 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.27	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0763	EA	5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.80	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0764	EA	5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.92	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-0765</b>		<b>3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small> .....</b>	<b>10.63</b>	
05 05 23 00-0766	EA	3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0767	EA	3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.68	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0768	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.97	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0769	EA	3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.81	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0770	EA	3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.92	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0771	EA	3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0772	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.19	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0773	EA	3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0774	EA	3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.41	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0775	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.69	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0776	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0777	EA	3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.02	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0778	EA	3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.96	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0779	EA	3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.09	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0780	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.47	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0781	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.22	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0782	EA	3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0783	EA	3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.85	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0784 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.97	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
 <b>05 05 23 00-0785 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0661)</small>		
05 05 23 00-0786 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.83	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0787 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.29	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0788 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.73	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0789 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.10	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0790 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.46	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0791 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.09	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0792 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.59	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0793 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	19.22	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0794 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	19.85	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0795 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	20.34	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0796 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	24.26	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0797 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	24.99	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0798 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	25.90	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0799 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	26.12	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0800 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	26.55	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0801 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	27.06	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0802 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	27.69	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-0803 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	28.29	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	

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

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0805 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.01	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0806 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.34	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0807 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.19	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0808 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.87	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0809 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	20.58	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0810 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	20.92	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0811 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	21.91	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0812 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	22.20	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0813 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	22.56	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0814 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	25.93	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0815 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	26.74	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0816 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	28.15	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0817 EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	29.54	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0818 EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	30.14	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0819 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	31.27	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0820 EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	32.13	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0821 EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	33.40	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	

05 05 23 00-0822 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0104)

05 05 23 00-0823 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)

05 05 23 00-0824 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.53	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0825 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.61	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0826 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.72	
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0827 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.83	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0828 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.11	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0829 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.28	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0830 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.47	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0831 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.80	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0832 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.04	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0833 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.26	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0834 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.62	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0835 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.99	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0836 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.36	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0837 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.69	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0838 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.90	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0839 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.39	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0840 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> (05 05 23 00-0822)		
05 05 23 00-0841 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.68	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0842 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.76	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0843 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.91	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0844 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.04	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0845 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.44	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0846 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.52	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0847 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.93	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0848	EA	5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.40	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0849	EA	5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.85	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0850	EA	5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.08	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0851	EA	5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.96	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0852	EA	5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.10	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0853	EA	5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.71	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0854	EA	5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.11	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0855</b>		<b>3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0822)</small>		
05 05 23 00-0856	EA	3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.88	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0857	EA	3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.97	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0858	EA	3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.22	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0859	EA	3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.53	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0860	EA	3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.86	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0861	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.11	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0862	EA	3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.44	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-0863	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.92	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0864	EA	3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.31	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0865	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.17	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-0866	EA	3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.45	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0867	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.16	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-0868	EA	3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0869 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.21	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0870 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.43	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-0871 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.94	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-0872 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0822)</small>		
05 05 23 00-0873 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.58	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0874 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.68	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0875 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.08	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0876 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.50	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0877 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.98	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0878 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.78	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0879 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.33	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0880 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.27	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0881 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.68	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0882 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.14	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0883 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.57	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0884 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.76	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0885 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.11	
<i>For &gt;100 To 250, Deduct</i>	-1.59	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.38	
<b>05 05 23 00-0886 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0822)</small>		
05 05 23 00-0887 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.57	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0888 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.68	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-0889 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.31	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0890 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.74	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0891 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.31	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0892 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.62	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0893 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.18	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0894 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.45	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0895 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.95	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-0896 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.54	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0897 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.22	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0898 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.98	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-0899 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.29	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0900 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.75	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0901 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.47	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.38	
05 05 23 00-0902 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	21.17	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0903 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	21.46	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0904 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	23.45	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0905 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.42	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
<b>05 05 23 00-0906 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0822)</small>		
05 05 23 00-0907 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.86	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0908 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.16	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0909 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.45	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-0910 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.09	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0911 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.90	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0912 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.31	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-0913 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.57	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0914 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.89	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0915 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.89	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-0916 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	25.47	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-0917 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.07	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
<b>05 05 23 00-0918 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0822)</small>		
05 05 23 00-0919 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.58	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0920 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.87	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0921 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.12	
<i>For &gt;100 To 250, Deduct</i>	-1.62	
<i>For &gt;250 To 500, Deduct</i>	-2.03	
<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-0922 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.51	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0923 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.10	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0924 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.95	
<i>For &gt;100 To 250, Deduct</i>	-1.66	
<i>For &gt;250 To 500, Deduct</i>	-2.08	
<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-0925 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.19	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0926 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.20	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0927 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.15	
<i>For &gt;100 To 250, Deduct</i>	-1.70	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-0928 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.87	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0929 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.72	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0930 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.85	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-0931 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	22.75	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0932 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	24.17	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0933 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.81	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0934 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	27.60	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0935 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.44	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0936 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	32.16	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0937 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	33.69	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
<b>05 05 23 00-0938 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)</b>		
05 05 23 00-0939 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.94	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0940 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.52	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0941 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.29	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0942 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.30	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0943 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.15	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0944 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.57	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0945 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.60	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0946 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.93	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0947 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.99	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0948 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	21.27	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0949 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.50	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0950 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	24.82	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0951 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.16	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0952 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	33.13	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0953 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	37.33	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-0954 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	37.71	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0955 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	38.37	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0956 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	40.16	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0957 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.55	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-0958 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0922)</small>		
05 05 23 00-0959 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.49	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0960 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.95	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-0961 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	19.24	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0962 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.72	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0963 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	21.20	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-0964 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	22.59	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0965 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	23.06	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0966 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	26.27	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-0967 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	26.93	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0968 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	28.16	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0969 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	34.96	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-0970 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	37.75	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0971 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	40.80	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0972 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	43.26	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-2.44	
<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-0973 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	50.90	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0974 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	56.88	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0975 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	59.64	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0976 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	62.40	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
<b>05 05 23 00-0977 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)</b>		
05 05 23 00-0978 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.01	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0979 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	21.08	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0980 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	22.84	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0981 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.18	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0982 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	26.38	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0983 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	29.02	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0984 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	30.56	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0985 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	32.82	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0986 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	35.12	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0987 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	35.25	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0988 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	41.32	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0989 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	49.18	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0990 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	50.32	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0991 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	51.46	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0992 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	53.93	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0993 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	57.44	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	
05 05 23 00-0994 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	73.36	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	91.91	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
 <b>05 05 23 00-0996 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0104)</small>		
<b>05 05 23 00-0997 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0996)</small>		
05 05 23 00-0998 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	6.69	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-0999 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	6.86	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1000 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	6.98	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1001 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	7.06	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1002 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	7.47	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1003 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	7.69	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1004 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	7.91	
<i>For &gt;100 To 250, Deduct</i>	-1.30	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1005 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	8.26	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1006 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	8.44	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1007 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	8.52	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1008 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	9.26	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1009 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	9.41	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1010 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	14.99	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1011 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	21.93	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-1012 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....	36.81	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-1013 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	40.21	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
 <b>05 05 23 00-1014 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0996)</small>		
05 05 23 00-1015 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	6.92	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1016 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	7.11	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-1.58	
<i>For &gt;500, Deduct</i>	-1.90	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1017	EA	5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.43	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1018	EA	5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1019	EA	5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.94	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1020	EA	5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	8.43	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1021	EA	5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.78	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1022	EA	5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	9.10	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1023	EA	5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.84	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1024	EA	5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	9.98	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1025	EA	5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.68	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1026	EA	5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	11.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1027	EA	5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	15.99	
		<i>For &gt;100 To 250, Deduct</i>	-1.37	
		<i>For &gt;250 To 500, Deduct</i>	-1.71	
		<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1028	EA	5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	22.93	
		<i>For &gt;100 To 250, Deduct</i>	-1.41	
		<i>For &gt;250 To 500, Deduct</i>	-1.76	
		<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-1029		<b>3/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0996)</small>		
05 05 23 00-1030	EA	3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.42	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1031	EA	3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	7.50	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1032	EA	3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.79	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1033	EA	3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.50	
		<i>For &gt;100 To 250, Deduct</i>	-1.26	
		<i>For &gt;250 To 500, Deduct</i>	-1.58	
		<i>For &gt;500, Deduct</i>	-1.90	
05 05 23 00-1034	EA	3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.92	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1035	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	9.05	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1036	EA	3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.67	
		<i>For &gt;100 To 250, Deduct</i>	-1.30	
		<i>For &gt;250 To 500, Deduct</i>	-1.62	
		<i>For &gt;500, Deduct</i>	-1.95	
05 05 23 00-1037	EA	3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	9.94	
		<i>For &gt;100 To 250, Deduct</i>	-1.33	
		<i>For &gt;250 To 500, Deduct</i>	-1.67	
		<i>For &gt;500, Deduct</i>	-2.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1038 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	10.33	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1039 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	10.59	
<i>For &gt;100 To 250, Deduct</i>	-1.33	
<i>For &gt;250 To 500, Deduct</i>	-1.67	
<i>For &gt;500, Deduct</i>	-2.00	
05 05 23 00-1040 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	11.63	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1041 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	12.67	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1042 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.71	
<i>For &gt;100 To 250, Deduct</i>	-1.37	
<i>For &gt;250 To 500, Deduct</i>	-1.71	
<i>For &gt;500, Deduct</i>	-2.06	
05 05 23 00-1043 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	15.54	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-1044 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	19.84	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
05 05 23 00-1045 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	24.48	
<i>For &gt;100 To 250, Deduct</i>	-1.41	
<i>For &gt;250 To 500, Deduct</i>	-1.76	
<i>For &gt;500, Deduct</i>	-2.11	
<b>05 05 23 00-1046 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)</b>		
05 05 23 00-1047 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	9.51	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1048 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.95	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1049 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.79	
<i>For &gt;100 To 250, Deduct</i>	-1.44	
<i>For &gt;250 To 500, Deduct</i>	-1.81	
<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1050 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	11.69	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1051 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	12.49	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1052 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	13.80	
<i>For &gt;100 To 250, Deduct</i>	-1.48	
<i>For &gt;250 To 500, Deduct</i>	-1.85	
<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1053 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	15.24	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1054 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	15.47	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1055 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	15.95	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1056 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	16.45	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-1057 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	16.79	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-1058 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	17.13	
<i>For &gt;100 To 250, Deduct</i>	-1.55	
<i>For &gt;250 To 500, Deduct</i>	-1.94	
<i>For &gt;500, Deduct</i>	-2.33	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1059	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	17.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
<b>05 05 23 00-1060</b>			<b>1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)</b>		
05 05 23 00-1061	EA		1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	9.48	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1062	EA		1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.96	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1063	EA		1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.64	
			<i>For &gt;100 To 250, Deduct</i>	-1.44	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500, Deduct</i>	-2.17	
05 05 23 00-1064	EA		1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	11.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1065	EA		1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	12.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1066	EA		1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	12.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500, Deduct</i>	-2.22	
05 05 23 00-1067	EA		1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	13.03	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1068	EA		1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	14.46	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1069	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	17.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-1.90	
			<i>For &gt;500, Deduct</i>	-2.27	
05 05 23 00-1070	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	17.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-1071	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	18.22	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-1072	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	21.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.94	
			<i>For &gt;500, Deduct</i>	-2.33	
05 05 23 00-1073	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	24.39	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-1074	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	25.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-1075	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	28.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.99	
			<i>For &gt;500, Deduct</i>	-2.38	
05 05 23 00-1076	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	35.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1077	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	39.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1078	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	40.60	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1079	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	41.72	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500, Deduct</i>	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 05 23 00-1080</b> <b>9/16" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0996)</small>		
05 05 23 00-1081    EA    9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	21.51	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-1082    EA    9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	23.08	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-1083    EA    9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	28.36	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.17	
05 05 23 00-1084    EA    9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	31.50	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-1085    EA    9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	34.62	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-1086    EA    9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	37.74	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-1087    EA    9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	39.87	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-1088    EA    9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	42.44	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-1089    EA    9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	44.72	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.27	
05 05 23 00-1090    EA    9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	45.59	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
05 05 23 00-1091    EA    9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	47.60	
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.33	
<b>05 05 23 00-1092</b> <b>5/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0996)</small>		
05 05 23 00-1093    EA    5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	12.83	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-1094    EA    5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.97	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-1095    EA    5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	13.01	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-1096    EA    5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	14.09	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-1097    EA    5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	15.02	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-1098    EA    5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	17.96	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-1099    EA    5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	18.75	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1100    EA    5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	21.33	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1101    EA    5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	22.22	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1102	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	24.09	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-1103	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	24.82	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-1104	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	29.32	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-1105	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	31.13	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1106	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	31.70	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1107	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	33.80	
		<i>For &gt;100 To 250, Deduct</i>	-1.77	
		<i>For &gt;250 To 500, Deduct</i>	-2.21	
		<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1108	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	35.88	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1109	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	37.66	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1110	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	46.16	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1111	EA	5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	55.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-1112</b>		<b>3/4" Diameter, 316 Stainless Steel, Hex Head Bolts</b> (05 05 23 00-0996)		
05 05 23 00-1113	EA	3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	16.41	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1114	EA	3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	16.73	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1115	EA	3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	17.95	
		<i>For &gt;100 To 250, Deduct</i>	-1.62	
		<i>For &gt;250 To 500, Deduct</i>	-2.03	
		<i>For &gt;500, Deduct</i>	-2.44	
05 05 23 00-1116	EA	3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	19.20	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-1117	EA	3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	21.49	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-1118	EA	3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	22.81	
		<i>For &gt;100 To 250, Deduct</i>	-1.66	
		<i>For &gt;250 To 500, Deduct</i>	-2.08	
		<i>For &gt;500, Deduct</i>	-2.49	
05 05 23 00-1119	EA	3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	25.82	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-1120	EA	3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	26.98	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-1121	EA	3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	27.62	
		<i>For &gt;100 To 250, Deduct</i>	-1.70	
		<i>For &gt;250 To 500, Deduct</i>	-2.12	
		<i>For &gt;500, Deduct</i>	-2.54	
05 05 23 00-1122	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	28.66	
		<i>For &gt;100 To 250, Deduct</i>	-1.73	
		<i>For &gt;250 To 500, Deduct</i>	-2.17	
		<i>For &gt;500, Deduct</i>	-2.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1123 EA 3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	30.12	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-1124 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	34.63	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-2.17	
<i>For &gt;500, Deduct</i>	-2.60	
05 05 23 00-1125 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	41.32	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1126 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	46.39	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1127 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	47.16	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-2.21	
<i>For &gt;500, Deduct</i>	-2.65	
05 05 23 00-1128 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	50.39	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1129 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	58.08	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1130 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	58.73	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1131 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	60.36	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
<b>05 05 23 00-1132 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)</b>		
05 05 23 00-1133 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	18.47	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1134 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	20.59	
<i>For &gt;100 To 250, Deduct</i>	-1.80	
<i>For &gt;250 To 500, Deduct</i>	-2.26	
<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1135 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	21.93	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1136 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	24.89	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1137 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	26.22	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-2.30	
<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1138 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	27.56	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1139 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	29.36	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1140 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	33.39	
<i>For &gt;100 To 250, Deduct</i>	-1.88	
<i>For &gt;250 To 500, Deduct</i>	-2.35	
<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1141 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	33.67	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-1142 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	35.01	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-1143 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	46.30	
<i>For &gt;100 To 250, Deduct</i>	-1.91	
<i>For &gt;250 To 500, Deduct</i>	-2.39	
<i>For &gt;500, Deduct</i>	-2.87	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1144	EA	7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	51.46	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-1145	EA	7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	56.82	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-1146	EA	7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	59.46	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-1147	EA	7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	63.07	
		<i>For &gt;100 To 250, Deduct</i>	-1.99	
		<i>For &gt;250 To 500, Deduct</i>	-2.48	
		<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1148	EA	7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	65.37	
		<i>For &gt;100 To 250, Deduct</i>	-1.99	
		<i>For &gt;250 To 500, Deduct</i>	-2.48	
		<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1149	EA	7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	67.64	
		<i>For &gt;100 To 250, Deduct</i>	-1.99	
		<i>For &gt;250 To 500, Deduct</i>	-2.48	
		<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1150	EA	7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	70.20	
		<i>For &gt;100 To 250, Deduct</i>	-1.99	
		<i>For &gt;250 To 500, Deduct</i>	-2.48	
		<i>For &gt;500, Deduct</i>	-2.98	
<b>05 05 23 00-1151</b>		<b>1" Diameter, 316 Stainless Steel, Hex Head Bolts</b> (05 05 23 00-0996)		
05 05 23 00-1152	EA	1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	23.12	
		<i>For &gt;100 To 250, Deduct</i>	-1.80	
		<i>For &gt;250 To 500, Deduct</i>	-2.26	
		<i>For &gt;500, Deduct</i>	-2.71	
05 05 23 00-1153	EA	1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	26.57	
		<i>For &gt;100 To 250, Deduct</i>	-1.84	
		<i>For &gt;250 To 500, Deduct</i>	-2.30	
		<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1154	EA	1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	28.75	
		<i>For &gt;100 To 250, Deduct</i>	-1.84	
		<i>For &gt;250 To 500, Deduct</i>	-2.30	
		<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1155	EA	1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	32.24	
		<i>For &gt;100 To 250, Deduct</i>	-1.84	
		<i>For &gt;250 To 500, Deduct</i>	-2.30	
		<i>For &gt;500, Deduct</i>	-2.76	
05 05 23 00-1156	EA	1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	33.66	
		<i>For &gt;100 To 250, Deduct</i>	-1.88	
		<i>For &gt;250 To 500, Deduct</i>	-2.35	
		<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1157	EA	1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	36.03	
		<i>For &gt;100 To 250, Deduct</i>	-1.88	
		<i>For &gt;250 To 500, Deduct</i>	-2.35	
		<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1158	EA	1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	38.42	
		<i>For &gt;100 To 250, Deduct</i>	-1.88	
		<i>For &gt;250 To 500, Deduct</i>	-2.35	
		<i>For &gt;500, Deduct</i>	-2.82	
05 05 23 00-1159	EA	1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	41.00	
		<i>For &gt;100 To 250, Deduct</i>	-1.91	
		<i>For &gt;250 To 500, Deduct</i>	-2.39	
		<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-1160	EA	1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	47.17	
		<i>For &gt;100 To 250, Deduct</i>	-1.91	
		<i>For &gt;250 To 500, Deduct</i>	-2.39	
		<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-1161	EA	1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	53.25	
		<i>For &gt;100 To 250, Deduct</i>	-1.91	
		<i>For &gt;250 To 500, Deduct</i>	-2.39	
		<i>For &gt;500, Deduct</i>	-2.87	
05 05 23 00-1162	EA	1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	61.75	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-1163	EA	1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	68.74	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	
05 05 23 00-1164	EA	1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	69.75	
		<i>For &gt;100 To 250, Deduct</i>	-1.95	
		<i>For &gt;250 To 500, Deduct</i>	-2.44	
		<i>For &gt;500, Deduct</i>	-2.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1165 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	72.22	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1166 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	73.18	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1167 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	84.79	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
05 05 23 00-1168 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	96.00	
<i>For &gt;100 To 250, Deduct</i>	-1.99	
<i>For &gt;250 To 500, Deduct</i>	-2.48	
<i>For &gt;500, Deduct</i>	-2.98	
<b>05 05 23 00-1169 Screws</b> <small>(05 05 23)</small>		
<b>05 05 23 00-1170 Teks® 5 Self Drilling Screws</b> <small>(05 05 23 00-1169)</small>		
Note: Screws include Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1171 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw .....	3.31	
<i>For &gt;10 To 50, Deduct</i>	-0.15	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100, Deduct</i>	-0.62	
05 05 23 00-1172 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw .....	3.42	
<i>For &gt;10 To 50, Deduct</i>	-0.15	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100, Deduct</i>	-0.62	
05 05 23 00-1173 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw .....	3.77	
<i>For &gt;10 To 50, Deduct</i>	-0.16	
<i>For &gt;50 To 100, Deduct</i>	-0.34	
<i>For &gt;100, Deduct</i>	-0.67	
05 05 23 00-1174 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw .....	5.08	
<i>For &gt;10 To 50, Deduct</i>	-0.20	
<i>For &gt;50 To 100, Deduct</i>	-0.43	
<i>For &gt;100, Deduct</i>	-0.86	
05 05 23 00-1175 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw .....	5.40	
<i>For &gt;10 To 50, Deduct</i>	-0.21	
<i>For &gt;50 To 100, Deduct</i>	-0.45	
<i>For &gt;100, Deduct</i>	-0.90	
05 05 23 00-1176 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw .....	6.46	
<i>For &gt;10 To 50, Deduct</i>	-0.22	
<i>For &gt;50 To 100, Deduct</i>	-0.49	
<i>For &gt;100, Deduct</i>	-0.98	
05 05 23 00-1177 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw .....	7.14	
<i>For &gt;10 To 50, Deduct</i>	-0.23	
<i>For &gt;50 To 100, Deduct</i>	-0.52	
<i>For &gt;100, Deduct</i>	-1.05	
<b>05 05 23 00-1178 Security Screws</b> <small>(05 05 23 00-1169)</small>		
<b>05 05 23 00-1179 304/18-8 Stainless Steel, Security Screws</b> <small>(05 05 23 00-1178)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1180 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws .....	2.64	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100, Deduct</i>	-0.51	
05 05 23 00-1181 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	2.97	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100, Deduct</i>	-0.53	
05 05 23 00-1182 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....	3.25	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1183 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.35	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1184 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.53	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1185 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.04	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.53	
05 05 23 00-1186 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....	3.18	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1187 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.46	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.55	
05 05 23 00-1188 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.54	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.56	
05 05 23 00-1189 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.13	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.53	
05 05 23 00-1190 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....	3.17	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.54	
05 05 23 00-1191 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.29	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.54	
05 05 23 00-1192 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.67	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.56	
05 05 23 00-1193 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.35	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.55	
05 05 23 00-1194 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....	3.43	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.55	
05 05 23 00-1195 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.80	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.57	
05 05 23 00-1196 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....	4.37	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.30	
For >100, Deduct	-0.60	
<b>05 05 23 00-1197 Threaded Rod</b> <small>(05 05 23)</small>		
Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.		
<b>05 05 23 00-1198 Plain Finish Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1197)</small>		
05 05 23 00-1199 LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	1.99	0.46
For Left Hand Threaded Rod, Add	0.11	
05 05 23 00-1200 LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	2.63	0.50
For Left Hand Threaded Rod, Add	0.16	
05 05 23 00-1201 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	3.05	0.57
For Left Hand Threaded Rod, Add	0.19	
05 05 23 00-1202 LF 7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.15	0.59
For Left Hand Threaded Rod, Add	0.30	
05 05 23 00-1203 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.24	0.61
For Left Hand Threaded Rod, Add	0.30	
05 05 23 00-1204 LF 9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	5.27	0.62
For Left Hand Threaded Rod, Add	0.40	
05 05 23 00-1205 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	5.96	0.63
For Left Hand Threaded Rod, Add	0.47	
05 05 23 00-1206 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	9.81	0.65
For Left Hand Threaded Rod, Add	0.85	
05 05 23 00-1207 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	10.71	0.67
For Left Hand Threaded Rod, Add	0.94	
05 05 23 00-1208 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	14.67	0.76
For Left Hand Threaded Rod, Add	1.31	
05 05 23 00-1209 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	18.27	0.85
For Left Hand Threaded Rod, Add	1.66	
05 05 23 00-1210 LF 1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	24.26	0.92
For Left Hand Threaded Rod, Add	2.24	
05 05 23 00-1211 LF 1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	30.21	1.00
For Left Hand Threaded Rod, Add	2.82	
05 05 23 00-1212 LF 1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	36.15	1.04
For Left Hand Threaded Rod, Add	3.41	
05 05 23 00-1213 LF 1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	44.37	1.09
For Left Hand Threaded Rod, Add	4.22	
05 05 23 00-1214 LF 2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	56.71	1.15
For Left Hand Threaded Rod, Add	5.44	
<b>05 05 23 00-1215 Zinc Plated Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1197)</small>		
05 05 23 00-1216 LF 1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....	2.00	0.46
For Left Hand Threaded Rod, Add	0.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1217 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	2.98 0.20	0.50
05 05 23 00-1218 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	3.32 0.22	0.57
05 05 23 00-1219 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	4.81 0.36	0.59
05 05 23 00-1220 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	5.18 0.40	0.61
05 05 23 00-1221 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	6.80 0.56	0.62
05 05 23 00-1222 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	7.24 0.60	0.63
05 05 23 00-1223 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	10.91 0.96	0.65
05 05 23 00-1224 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	14.16 1.28	0.67
05 05 23 00-1225 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	19.02 1.75	0.76
05 05 23 00-1226 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	24.57 2.29	0.85
05 05 23 00-1227 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	29.33 2.74	0.92
05 05 23 00-1228 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	33.35 3.14	1.00
05 05 23 00-1229 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	42.02 3.99	1.04
05 05 23 00-1230 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	52.10 4.99	1.09
05 05 23 00-1231 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	76.09 7.38	1.15
<b>05 05 23 00-1232 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1197)</small>		
05 05 23 00-1233 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	5.52 0.44	0.57
05 05 23 00-1234 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	7.74 0.65	0.61
05 05 23 00-1235 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	10.48 0.92	0.63
05 05 23 00-1236 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	14.41 1.31	0.65
05 05 23 00-1237 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	19.98 1.86	0.67
05 05 23 00-1238 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	25.79 2.43	0.76
05 05 23 00-1239 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	33.95 3.23	0.85
05 05 23 00-1240 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	44.67 4.28	0.92
05 05 23 00-1241 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	49.93 4.79	1.00
05 05 23 00-1242 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	59.46 5.74	1.04
05 05 23 00-1243 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	72.27 7.01	1.09
05 05 23 00-1244 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	126.25 12.40	1.15
<b>05 05 23 00-1245 304/18-8 Stainless Steel Threaded Rod</b> <small>(05 05 23 00-1197)</small>		
05 05 23 00-1246 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	2.65 0.17	0.46
05 05 23 00-1247 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	3.96 0.30	0.50
05 05 23 00-1248 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	5.09 0.39	0.57
05 05 23 00-1249 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	7.05 0.59	0.59
05 05 23 00-1250 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	8.44 0.72	0.61
05 05 23 00-1251 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	12.10 1.09	0.62
05 05 23 00-1252 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	12.64 1.14	0.63
05 05 23 00-1253 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	17.67 1.64	0.65
05 05 23 00-1254 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	24.28 2.29	0.67
05 05 23 00-1255 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	31.14 2.96	0.76
05 05 23 00-1256 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	65.83 6.39	0.92
05 05 23 00-1257 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod ..... <i>For Left Hand Threaded Rod, Add</i>	100.19 9.81	1.04

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1258	LF	1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	103.07 10.09	1.09
05 05 23 00-1259	LF	2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	142.58 14.03	1.15
<b>05 05 23 00-1260</b>		<b>316 Stainless Steel Threaded Rod</b> (05 05 23 00-1197)		
05 05 23 00-1261	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.81 0.29	0.46
05 05 23 00-1262	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.11 0.51	0.50
05 05 23 00-1263	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	8.10 0.70	0.57
05 05 23 00-1264	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	12.62 1.14	0.59
05 05 23 00-1265	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.37 1.22	0.61
05 05 23 00-1266	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	17.53 1.63	0.62
05 05 23 00-1267	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	18.87 1.76	0.63
05 05 23 00-1268	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	27.47 2.62	0.65
05 05 23 00-1269	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	37.59 3.62	0.67
05 05 23 00-1270	LF	1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	47.55 4.60	0.76
05 05 23 00-1271	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	100.32 9.84	0.92
05 05 23 00-1272	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	131.47 12.94	1.04
<b>05 05 23 00-1273</b>		<b>Plain Finish Steel, B-7 Alloy Threaded Rod</b> (05 05 23 00-1197)		
05 05 23 00-1274	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.50 1.29	0.46
05 05 23 00-1275	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.42 2.21	0.50
05 05 23 00-1276	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.67 2.26	0.57
05 05 23 00-1277	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.20 2.51	0.59
05 05 23 00-1278	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.83 2.81	0.61
05 05 23 00-1279	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.55 3.66	0.62
05 05 23 00-1280	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.84 3.79	0.63
05 05 23 00-1281	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	11.77 5.24	0.65
05 05 23 00-1282	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	14.13 6.39	0.67
05 05 23 00-1283	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	18.35 8.41	0.76
05 05 23 00-1284	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	23.90 11.10	0.85
05 05 23 00-1285	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	26.60 12.35	0.92
05 05 23 00-1286	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	30.72 14.37	1.00
05 05 23 00-1287	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	37.39 17.66	1.04
05 05 23 00-1288	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	38.65 18.24	1.09
05 05 23 00-1289	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	51.94 24.83	1.15
<b>05 05 23 00-1290</b>		<b>Nuts And Washers</b> (05 05 23)		
<b>05 05 23 00-1291</b>		<b>Hex Nuts</b> (05 05 23 00-1290)		
<b>05 05 23 00-1292</b>		<b>Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1293	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.57	0.25
05 05 23 00-1294	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.63	0.25
05 05 23 00-1295	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.68	0.25
05 05 23 00-1296	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.79	0.25
05 05 23 00-1297	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.86	0.25
05 05 23 00-1298	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.17	0.25
05 05 23 00-1299	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.21	0.25
05 05 23 00-1300	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.43	0.50
05 05 23 00-1301	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.13	0.50
05 05 23 00-1302	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.72	0.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1303	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	4.50	0.50
05 05 23 00-1304	EA		1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	5.53	0.50
05 05 23 00-1305	EA		1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	8.18	0.50
05 05 23 00-1306	EA		1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	9.49	0.75
05 05 23 00-1307	EA		1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	13.99	0.75
05 05 23 00-1308	EA		2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	20.27	0.75
<b>05 05 23 00-1309</b>			<b>Zinc Plated Steel, Grade 5 Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1310	EA		1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	0.59	0.25
05 05 23 00-1311	EA		5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	0.64	0.25
05 05 23 00-1312	EA		3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	0.70	0.25
05 05 23 00-1313	EA		7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	0.83	0.25
05 05 23 00-1314	EA		1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	0.98	0.25
05 05 23 00-1315	EA		9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	1.20	0.25
05 05 23 00-1316	EA		5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	1.24	0.25
05 05 23 00-1317	EA		3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	1.63	0.50
05 05 23 00-1318	EA		7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	2.33	0.50
05 05 23 00-1319	EA		1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	3.32	0.50
05 05 23 00-1320	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	5.09	0.50
05 05 23 00-1321	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	7.25	0.50
05 05 23 00-1322	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	10.70	0.50
05 05 23 00-1323	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	11.82	0.75
05 05 23 00-1324	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	21.44	0.75
05 05 23 00-1325	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	30.79	0.75
<b>05 05 23 00-1326</b>			<b>Zinc Plated Steel, Grade 8 Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1327	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.60	0.25
05 05 23 00-1328	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.69	0.25
05 05 23 00-1329	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.76	0.25
05 05 23 00-1330	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.95	0.25
05 05 23 00-1331	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.15	0.25
05 05 23 00-1332	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.40	0.25
05 05 23 00-1333	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.60	0.25
05 05 23 00-1334	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	2.00	0.50
05 05 23 00-1335	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	3.03	0.50
05 05 23 00-1336	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	4.05	0.50
05 05 23 00-1337	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	6.39	0.50
05 05 23 00-1338	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	8.00	0.50
05 05 23 00-1339	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	13.25	0.50
05 05 23 00-1340	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	14.06	0.75
05 05 23 00-1341	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	21.50	0.75
05 05 23 00-1342	EA		2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	30.44	0.75
<b>05 05 23 00-1343</b>			<b>Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1344	EA		1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.60	0.25
05 05 23 00-1345	EA		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.67	0.25
05 05 23 00-1346	EA		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.73	0.25
05 05 23 00-1347	EA		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.93	0.25
05 05 23 00-1348	EA		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.08	0.25
05 05 23 00-1349	EA		9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.21	0.25
05 05 23 00-1350	EA		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.35	0.25
05 05 23 00-1351	EA		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.81	0.50
05 05 23 00-1352	EA		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	2.66	0.50
05 05 23 00-1353	EA		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	3.70	0.50
05 05 23 00-1354	EA		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	6.17	0.50
05 05 23 00-1355	EA		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	7.95	0.50
05 05 23 00-1356	EA		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	11.85	0.50
05 05 23 00-1357	EA		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	13.84	0.75
05 05 23 00-1358	EA		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	24.23	0.75
05 05 23 00-1359	EA		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	42.00	0.75
<b>05 05 23 00-1360</b>			<b>304 Stainless Steel Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1361	EA		1/4" Diameter, 304 Stainless Steel Hex Nut .....	0.64	0.25
05 05 23 00-1362	EA		5/16" Diameter, 304 Stainless Steel Hex Nut .....	0.75	0.25
05 05 23 00-1363	EA		3/8" Diameter, 304 Stainless Steel Hex Nut .....	0.84	0.25
05 05 23 00-1364	EA		7/16" Diameter, 304 Stainless Steel Hex Nut .....	1.22	0.25
05 05 23 00-1365	EA		1/2" Diameter, 304 Stainless Steel Hex Nut .....	1.32	0.25
05 05 23 00-1366	EA		9/16" Diameter, 304 Stainless Steel Hex Nut .....	1.98	0.25
05 05 23 00-1367	EA		5/8" Diameter, 304 Stainless Steel Hex Nut .....	2.20	0.25
05 05 23 00-1368	EA		3/4" Diameter, 304 Stainless Steel Hex Nut .....	2.52	0.50
05 05 23 00-1369	EA		7/8" Diameter, 304 Stainless Steel Hex Nut .....	4.08	0.50
05 05 23 00-1370	EA		1" Diameter, 304 Stainless Steel Hex Nut .....	6.24	0.50
05 05 23 00-1371	EA		1-1/4" Diameter, 304 Stainless Steel Hex Nut .....	14.90	0.50
05 05 23 00-1372	EA		1-1/2" Diameter, 304 Stainless Steel Hex Nut .....	28.53	0.75
05 05 23 00-1373	EA		1-3/4" Diameter, 304 Stainless Steel Hex Nut .....	50.10	0.75
05 05 23 00-1374	EA		2" Diameter, 304 Stainless Steel Hex Nut .....	71.36	0.75

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1375			<b>316 Stainless Steel Hex Nuts</b> (05 05 23 00-1291)		
05 05 23 00-1376	EA		1/4" Diameter, 316 Stainless Steel Hex Nut.....	0.74	0.25
05 05 23 00-1377	EA		5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.84	0.25
05 05 23 00-1378	EA		3/8" Diameter, 316 Stainless Steel Hex Nut.....	0.99	0.25
05 05 23 00-1379	EA		7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.58	0.25
05 05 23 00-1380	EA		1/2" Diameter, 316 Stainless Steel Hex Nut.....	1.70	0.25
05 05 23 00-1381	EA		9/16" Diameter, 316 Stainless Steel Hex Nut.....	2.30	0.25
05 05 23 00-1382	EA		5/8" Diameter, 316 Stainless Steel Hex Nut.....	2.59	0.25
05 05 23 00-1383	EA		3/4" Diameter, 316 Stainless Steel Hex Nut.....	3.58	0.50
05 05 23 00-1384	EA		7/8" Diameter, 316 Stainless Steel Hex Nut.....	4.95	0.50
05 05 23 00-1385	EA		1" Diameter, 316 Stainless Steel Hex Nut.....	7.62	0.50
05 05 23 00-1386	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	23.05	0.50
05 05 23 00-1387	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	37.22	0.75
05 05 23 00-1388	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	62.75	0.75
05 05 23 00-1389	EA		2" Diameter, 316 Stainless Steel Hex Nut.....	116.56	0.75
05 05 23 00-1390			<b>Flat Washers</b> (05 05 23 00-1290)		
05 05 23 00-1391			<b>Zinc Plated Steel, Low Carbon Flat Washers</b> (05 05 23 00-1390)		
05 05 23 00-1392	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.04	
05 05 23 00-1393	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.07	
05 05 23 00-1394	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.13	
05 05 23 00-1395	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.20	
05 05 23 00-1396	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.29	
05 05 23 00-1397	EA		9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.32	
05 05 23 00-1398	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.55	
05 05 23 00-1399	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.79	
05 05 23 00-1400	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.94	
05 05 23 00-1401	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.16	
05 05 23 00-1402	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.31	
05 05 23 00-1403	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.56	
05 05 23 00-1404	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.45	
05 05 23 00-1405	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.51	
05 05 23 00-1406	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.72	
05 05 23 00-1407	EA		2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.62	
05 05 23 00-1408			<b>Zinc Plated Steel, Hardened Flat Washers</b> (05 05 23 00-1390)		
05 05 23 00-1409	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.17	
05 05 23 00-1410	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.23	
05 05 23 00-1411	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.27	
05 05 23 00-1412	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.36	
05 05 23 00-1413	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.49	
05 05 23 00-1414	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.79	
05 05 23 00-1415	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.13	
05 05 23 00-1416	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.60	
05 05 23 00-1417	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.66	
05 05 23 00-1418	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.96	
05 05 23 00-1419	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.30	
05 05 23 00-1420	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.69	
05 05 23 00-1421	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.19	
05 05 23 00-1422	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.08	
05 05 23 00-1423	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.52	
05 05 23 00-1424	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.42	
05 05 23 00-1425			<b>Hot Dipped Galvanized Steel Flat Washers</b> (05 05 23 00-1390)		
05 05 23 00-1426	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.11	
05 05 23 00-1427	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.16	
05 05 23 00-1428	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.18	
05 05 23 00-1429	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.33	
05 05 23 00-1430	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.42	
05 05 23 00-1431	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.70	
05 05 23 00-1432	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.78	
05 05 23 00-1433	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.18	
05 05 23 00-1434	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.66	
05 05 23 00-1435	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.83	
05 05 23 00-1436	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.79	
05 05 23 00-1437	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.11	
05 05 23 00-1438	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.44	
05 05 23 00-1439	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.81	
05 05 23 00-1440	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	6.98	
05 05 23 00-1441			<b>304/18-8 Stainless Steel Flat Washers</b> (05 05 23 00-1390)		
05 05 23 00-1442	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.11	
05 05 23 00-1443	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.14	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1444 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.20	
05 05 23 00-1445 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.38	
05 05 23 00-1446 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.68	
05 05 23 00-1447 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.86	
05 05 23 00-1448 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.26	
05 05 23 00-1449 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.28	
05 05 23 00-1450 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.70	
05 05 23 00-1451 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.42	
05 05 23 00-1452 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.98	
05 05 23 00-1453 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.29	
05 05 23 00-1454 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.53	
05 05 23 00-1455 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.52	
05 05 23 00-1456 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.86	
05 05 23 00-1457 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	13.47	
<b>05 05 23 00-1458 316 Stainless Steel Flat Washers (05 05 23 00-1390)</b>		
05 05 23 00-1459 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.21	
05 05 23 00-1460 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.23	
05 05 23 00-1461 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.41	
05 05 23 00-1462 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.48	
05 05 23 00-1463 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.89	
05 05 23 00-1464 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.60	
05 05 23 00-1465 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.89	
05 05 23 00-1466 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.38	
05 05 23 00-1467 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.68	
05 05 23 00-1468 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.11	
05 05 23 00-1469 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.69	
05 05 23 00-1470 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.77	
05 05 23 00-1471 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.10	
05 05 23 00-1472 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.24	
05 05 23 00-1473 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	9.14	
<b>05 05 23 00-1474 Lock Washers (05 05 23 00-1290)</b>		
<b>05 05 23 00-1475 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1474)</b>		
05 05 23 00-1476 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1477 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.03	
05 05 23 00-1478 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1479 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.08	
05 05 23 00-1480 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.11	
05 05 23 00-1481 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.18	
05 05 23 00-1482 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.21	
05 05 23 00-1483 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.32	
05 05 23 00-1484 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.52	
05 05 23 00-1485 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.94	
05 05 23 00-1486 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.38	
05 05 23 00-1487 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	2.12	
05 05 23 00-1488 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.35	
05 05 23 00-1489 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.95	
05 05 23 00-1490 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	7.04	
05 05 23 00-1491 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	7.93	
<b>05 05 23 00-1492 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1474)</b>		
05 05 23 00-1493 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.09	
05 05 23 00-1494 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.10	
05 05 23 00-1495 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.13	
05 05 23 00-1496 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.15	
05 05 23 00-1497 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.23	
05 05 23 00-1498 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.30	
05 05 23 00-1499 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.36	
05 05 23 00-1500 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.61	
05 05 23 00-1501 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.87	
05 05 23 00-1502 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	1.38	
05 05 23 00-1503 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.50	
05 05 23 00-1504 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.98	
05 05 23 00-1505 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.30	
05 05 23 00-1506 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.92	
05 05 23 00-1507 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	6.66	
05 05 23 00-1508 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	9.07	
<b>05 05 23 00-1509 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1474)</b>		
05 05 23 00-1510 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.09	
05 05 23 00-1511 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.13	
05 05 23 00-1512 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.18	
05 05 23 00-1513 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.33	
05 05 23 00-1514 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.36	
05 05 23 00-1515 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.88	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1516	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	1.04	
05 05 23 00-1517	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	1.21	
05 05 23 00-1518	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	2.19	
05 05 23 00-1519	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	3.10	
05 05 23 00-1520	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	5.41	
05 05 23 00-1521	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	7.19	
05 05 23 00-1522	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	9.14	
05 05 23 00-1523	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....	10.97	
<b>05 05 23 00-1524</b>		<b>316 Stainless Steel Lock Washers</b> <small>(05 05 23 00-1474)</small>		
05 05 23 00-1525	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.11	
05 05 23 00-1526	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.24	
05 05 23 00-1527	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.28	
05 05 23 00-1528	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.48	
05 05 23 00-1529	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.53	
05 05 23 00-1530	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer .....	0.94	
05 05 23 00-1531	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer .....	1.03	
05 05 23 00-1532	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer .....	1.78	
05 05 23 00-1533	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer .....	2.95	
05 05 23 00-1534	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer .....	4.01	
05 05 23 00-1535	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer .....	5.60	
05 05 23 00-1536	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer .....	8.62	
05 05 23 00-1537	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer .....	15.43	
05 05 23 00-1538	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer .....	17.13	
<b>05 05 23 00-1539</b>		<b>Load Indicating Washers</b> <small>(05 05 23 00-1290)</small>		
<b>05 05 23 00-1540</b>		<b>A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> <small>(05 05 23 00-1539)</small>		
<b>05 05 23 00-1541</b>		<b>Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> <small>(05 05 23 00-1540)</small>		
05 05 23 00-1542	EA	1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	2.30	
05 05 23 00-1543	EA	5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	2.60	
05 05 23 00-1544	EA	3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	2.80	
05 05 23 00-1545	EA	7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	3.18	
05 05 23 00-1546	EA	1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	3.84	
05 05 23 00-1547	EA	1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	6.40	
05 05 23 00-1548	EA	1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	8.26	
05 05 23 00-1549	EA	1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	10.54	
05 05 23 00-1550	EA	1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	11.60	
<b>05 05 23 00-1551</b>		<b>Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> <small>(05 05 23 00-1540)</small>		
05 05 23 00-1552	EA	1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	2.91	
05 05 23 00-1553	EA	5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	3.24	
05 05 23 00-1554	EA	3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	3.15	
05 05 23 00-1555	EA	7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	3.84	
05 05 23 00-1556	EA	1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	4.56	
05 05 23 00-1557	EA	1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	6.86	
05 05 23 00-1558	EA	1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	8.64	
05 05 23 00-1559	EA	1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	12.30	
05 05 23 00-1560	EA	1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....	13.53	
<b>05 05 23 00-1561</b>		<b>Beveled Washers</b> <small>(05 05 23 00-1290)</small>		
<b>05 05 23 00-1562</b>		<b>Plain Finish, Square Beveled Structural Washers (ASTM F436)</b> <small>(05 05 23 00-1561)</small>		
05 05 23 00-1563	EA	1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436) .....	3.79	
05 05 23 00-1564	EA	5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436) .....	3.87	
05 05 23 00-1565	EA	3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436) .....	3.96	
05 05 23 00-1566	EA	7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436) .....	4.81	
05 05 23 00-1567	EA	1", Plain Finish, Square Beveled Structural Washer (ASTM F436) .....	5.06	
<b>05 05 23 00-1568</b>		<b>Galvanized, Square Beveled Structural Washers (ASTM F436)</b> <small>(05 05 23 00-1561)</small>		
05 05 23 00-1569	EA	1/2", Galvanized, Square Beveled Structural Washer (ASTM F436) .....	5.46	
05 05 23 00-1570	EA	5/8", Galvanized, Square Beveled Structural Washer (ASTM F436) .....	5.70	
05 05 23 00-1571	EA	3/4", Galvanized, Square Beveled Structural Washer (ASTM F436) .....	5.70	
05 05 23 00-1572	EA	7/8", Galvanized, Square Beveled Structural Washer (ASTM F436) .....	6.03	
05 05 23 00-1573	EA	1", Galvanized, Square Beveled Structural Washer (ASTM F436) .....	6.41	
<b>05 05 23 00-1574</b>		<b>Welded Stud Anchors</b> <small>(05 05 23)</small>		
05 05 23 00-1575	EA	1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors .....	3.06	
05 05 23 00-1576	EA	2-1/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors .....	3.12	
05 05 23 00-1577	EA	3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors .....	3.14	
05 05 23 00-1578	EA	4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors .....	3.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1579 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.05	
05 05 23 00-1580 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.19	
05 05 23 00-1581 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.33	
05 05 23 00-1582 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.41	
05 05 23 00-1583 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.49	
05 05 23 00-1584 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	3.78	
05 05 23 00-1585 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	4.02	
05 05 23 00-1586 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors .....	4.22	
05 05 23 00-1587 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	3.70	
05 05 23 00-1588 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	3.72	
05 05 23 00-1589 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	3.94	
05 05 23 00-1590 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	4.15	
05 05 23 00-1591 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	4.41	
05 05 23 00-1592 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	4.81	
05 05 23 00-1593 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	5.07	
05 05 23 00-1594 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	5.78	
05 05 23 00-1595 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors .....	7.12	
05 05 23 00-1596 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	5.16	
05 05 23 00-1597 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	5.49	
05 05 23 00-1598 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	5.77	
05 05 23 00-1599 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	6.04	
05 05 23 00-1600 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	6.27	
05 05 23 00-1601 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	6.48	
05 05 23 00-1602 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	6.75	
05 05 23 00-1603 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	7.90	
05 05 23 00-1604 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors .....	9.48	
05 05 23 00-1605 <b>Welded Shear Stud Connector</b> (05 05 23)		
05 05 23 00-1606 <b>3/4" Diameter Welded Shear Stud Connector</b> (05 05 23 00-1605)		
05 05 23 00-1607 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector .....	6.54	
05 05 23 00-1608 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector .....	6.78	
05 05 23 00-1609 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector .....	6.84	
05 05 23 00-1610 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector .....	6.88	
05 05 23 00-1611 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector .....	7.15	
05 05 23 00-1612 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector .....	7.65	
05 05 23 00-1613 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector .....	12.50	
05 05 23 00-1614 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector .....	8.23	
05 05 23 00-1615 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector .....	9.12	
05 05 23 00-1616 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector .....	12.18	
05 05 23 00-1617 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector .....	12.46	
05 05 23 00-1618 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector .....	13.43	
05 05 23 00-1619 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector .....	17.49	
05 05 23 00-1620 <b>7/8" Diameter Welded Shear Stud Connector</b> (05 05 23 00-1605)		
05 05 23 00-1621 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector .....	7.75	
05 05 23 00-1622 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector .....	8.13	
05 05 23 00-1623 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector .....	8.52	
05 05 23 00-1624 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector .....	9.63	
05 05 23 00-1625 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector .....	12.78	
05 05 23 00-1626 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector .....	13.96	
05 05 23 00-1627 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector .....	15.12	
05 05 23 00-1628 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector .....	18.38	
05 05 23 00-1629 <b>1" Diameter Welded Shear Stud Connector</b> (05 05 23 00-1605)		
05 05 23 00-1630 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector .....	10.28	
05 05 23 00-1631 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector .....	11.47	
05 05 23 00-1632 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector .....	13.23	
05 05 23 00-1633 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector .....	17.18	
05 05 23 00-1634 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector .....	19.02	
05 05 23 00-1635 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector .....	20.86	
05 10 <b>Structural Metal Framing</b> (05)		
05 12 <b>Structural Steel Framing</b> (05 10)		
05 12 23 <b>Structural Steel For Buildings</b> (05 12)		
See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0001 <b>Rolled Steel Members</b> (05 12 23)		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0002			<b>Beams, Girders And Columns</b> (05 12 23 00-0001) Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003	TON		Up To 30 LB/LF Beams, Girders And Columns.....	6,918.85	1,041.58
			For ASTM A242 Type 2 High Strength Steel, Add	381.12	
			For Hot Dip Galvanizing, Add	1,333.93	
05 12 23 00-0004	TON		>30-65 LB/LF Beams, Girders And Columns.....	4,628.16	673.31
			For ASTM A242 Type 2 High Strength Steel, Add	312.79	
			For Hot Dip Galvanizing, Add	1,094.77	
05 12 23 00-0005	TON		>65-100 LB/LF Beams, Girders And Columns.....	3,875.16	378.77
			For ASTM A242 Type 2 High Strength Steel, Add	277.69	
			For Hot Dip Galvanizing, Add	971.92	
05 12 23 00-0006	TON		>100-300 LB/LF Beams, Girders And Columns.....	2,588.41	201.61
			For ASTM A242 Type 2 High Strength Steel, Add	189.83	
			For Hot Dip Galvanizing, Add	664.42	
05 12 23 00-0007			<b>Trusses, Built-Up</b> (05 12 23 00-0001)		
05 12 23 00-0008	TON		Built-Up Trusses, Rolled Structural Steel Members.....	4,909.12	708.36
			For ASTM A242 Type 2 High Strength Steel, Add	332.31	
			For Hot Dip Galvanizing, Add	1,163.10	
05 12 23 00-0009			<b>Shapes</b> (05 12 23 00-0001)		
05 12 23 00-0010			<b>Rolled Shape Steel Angles</b> (05 12 23 00-0009)		
05 12 23 00-0011	TON		Up To 10 LB/LF Rolled Shape Steel Angles.....	10,107.11	1,936.30
			For ASTM A242 Type 2 High Strength Steel, Add	550.40	
			For Hot Dip Galvanizing, Add	1,926.38	
05 12 23 00-0012	TON		>10 To 20 LB/LF Rolled Shape Steel Angles.....	8,736.19	1,136.33
			For ASTM A242 Type 2 High Strength Steel, Add	526.51	
			For Hot Dip Galvanizing, Add	1,842.79	
05 12 23 00-0013	TON		>20 To 58 LB/LF Rolled Shape Steel Angles.....	6,507.70	673.31
			For ASTM A242 Type 2 High Strength Steel, Add	463.16	
			For Hot Dip Galvanizing, Add	1,621.07	
05 12 23 00-0014			<b>Rolled C, MC Steel Channels</b> (05 12 23 00-0009)		
05 12 23 00-0015	TON		Up To 10 LB/LF Rolled C, MC Steel Channels.....	11,215.96	2,651.43
			For ASTM A242 Type 2 High Strength Steel, Add	542.09	
			For Hot Dip Galvanizing, Add	1,897.31	
05 12 23 00-0016	TON		>10 To 20 Rolled C, MC Steel Channels.....	8,645.32	2,020.13
			For ASTM A242 Type 2 High Strength Steel, Add	519.24	
			For Hot Dip Galvanizing, Add	1,817.34	
05 12 23 00-0017	TON		>20 To 58 LB/LF Rolled C, MC Steel Channels.....	6,403.85	673.31
			For ASTM A242 Type 2 High Strength Steel, Add	454.86	
			For Hot Dip Galvanizing, Add	1,591.99	
05 12 23 00-0018			<b>Double L Shape Steel Angles</b> (05 12 23 00-0009)		
05 12 23 00-0019	TON		Up To 20 LB/LF Double L Shape Steel Angles.....	9,309.63	1,536.31
			For ASTM A242 Type 2 High Strength Steel, Add	529.63	
			For Hot Dip Galvanizing, Add	1,853.69	
05 12 23 00-0020	TON		>20 To 50 LB/LF Double L Shape Steel Angles.....	6,949.05	673.31
			For ASTM A242 Type 2 High Strength Steel, Add	498.47	
			For Hot Dip Galvanizing, Add	1,744.65	
05 12 23 00-0021	TON		>50 To 80 LB/LF Double L Shape Steel Angles.....	5,207.00	378.77
			For ASTM A242 Type 2 High Strength Steel, Add	384.24	
			For Hot Dip Galvanizing, Add	1,344.83	
05 12 23 00-0022	TON		>80 To 115 LB/LF Double L Shape Steel Angles.....	3,330.59	201.91
			For ASTM A242 Type 2 High Strength Steel, Add	249.24	
			For Hot Dip Galvanizing, Add	872.33	
05 12 23 00-0023			<b>Structural WT, MT, ST Tee Shapes</b> (05 12 23 00-0001)		
05 12 23 00-0024	TON		Up To 30 LB/LF Structural WT, MT, ST Tee Shapes.....	8,385.70	1,136.33
			For ASTM A242 Type 2 High Strength Steel, Add	498.47	
			For Hot Dip Galvanizing, Add	1,744.65	
05 12 23 00-0025	TON		>30 To 65 LB/LF Structural WT, MT, ST Tee Shapes.....	5,482.31	673.31
			For ASTM A242 Type 2 High Strength Steel, Add	381.12	
			For Hot Dip Galvanizing, Add	1,333.93	
05 12 23 00-0026	TON		>65 To 100 LB/LF Structural WT, MT, ST Tee Shapes.....	4,298.33	378.77
			For ASTM A242 Type 2 High Strength Steel, Add	311.54	
			For Hot Dip Galvanizing, Add	1,090.41	
05 12 23 00-0027	TON		>100 To 365 LB/LF Structural WT, MT, ST Tee Shapes.....	3,149.19	201.61
			For ASTM A242 Type 2 High Strength Steel, Add	234.70	
			For Hot Dip Galvanizing, Add	821.44	
05 12 23 00-0028			<b>Combination Section Shapes</b> (05 12 23 00-0001)		
05 12 23 00-0029			<b>Combination Section, W Shapes And Angles</b> (05 12 23 00-0028)		



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0030	TON		Up To 30 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	7,983.29 466.28 1,631.97	1,136.33
05 12 23 00-0031	TON		>30-65 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,521.26 384.24 1,344.84	673.31
05 12 23 00-0032	TON		>65-100 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,973.80 285.58 999.54	378.77
05 12 23 00-0033	TON		>100-300 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,408.48 255.47 894.14	201.61
05 12 23 00-0034	TON		>300-500 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2,924.63 225.54 788.73	101.21
<b>05 12 23 00-0035</b>			<b>Combination Section, S Shapes And Angles</b> <small>(05 12 23 00-0028)</small>		
05 12 23 00-0036	TON		>30-65 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,313.55 367.62 1,286.68	673.31
05 12 23 00-0037	TON		>65-100 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,986.78 286.62 1,003.17	378.77
<b>05 12 23 00-0038</b>			<b>Combination Section, Channels And Angles</b> <small>(05 12 23 00-0028)</small>		
05 12 23 00-0039	TON		Up To 30 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	8,385.70 498.47 1,744.65	1,136.33
05 12 23 00-0040	TON		>30-65 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,780.87 405.01 1,417.53	673.31
05 12 23 00-0041	TON		>65-100 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,077.65 293.89 1,028.62	378.77
<b>05 12 23 00-0042</b>			<b>Standard Weight Pipe</b> <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043	TON		1/2" To 5" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,696.53 324.01 1,134.02	606.04
05 12 23 00-0044	TON		>5" To 12" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,039.87 338.54 1,184.91	757.55
<b>05 12 23 00-0045</b>			<b>Structural Steel Shapes</b> <small>(05 12 23)</small>		
<p>Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.</p>					
<b>05 12 23 00-0046</b>			<b>Steel Rods</b> <small>(05 12 23 00-0045)</small>		
05 12 23 00-0047	TON		1/2" To 5" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,022.43 361.39 1,264.87	473.52
05 12 23 00-0048	TON		>5" To 12" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,780.87 405.01 1,417.53	673.31
<b>05 12 23 00-0049</b>			<b>Column Base Plates</b> <small>(05 12 23 00-0045)</small>		
05 12 23 00-0050	LB		Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.62 0.16 0.55	0.64
05 12 23 00-0051	LB		Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.46 0.15 0.52	0.55
05 12 23 00-0052	TON		Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,626.52 321.24 1,124.35	572.81
05 12 23 00-0053	TON		Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,270.97 232.35 813.22	343.69
<b>05 12 23 00-0054</b>			<b>Double Extra Strong Pipes</b> <small>(05 12 23 00-0045)</small>		
05 12 23 00-0055	TON		2" To 5" Diameter Double Extra Strong Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	6,089.94 413.32 1,446.61	865.73

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0056	TON		>5" To 8" Diameter Double Extra Strong Pipe ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,663.71 413.32 1,446.61	466.15
<b>05 12 23 00-0057</b>			<b>Structural Pipes</b> (05 12 23 00-0045)		
05 12 23 00-0058	TON		3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,250.12 290.78 1,017.71	399.98
05 12 23 00-0059	TON		>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,652.39 290.78 1,017.71	461.30
<b>05 12 23 00-0060</b>			<b>Structural Tubing</b> (05 12 23 00-0045)		
<b>05 12 23 00-0061</b>			<b>Rectangle Structural Tubing</b> (05 12 23 00-0060)		
05 12 23 00-0062	TON		3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,921.47 519.24 1,817.34	404.02
05 12 23 00-0063	TON		4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,987.77 519.24 1,817.34	466.15
05 12 23 00-0064	TON		5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,120.54 446.55 1,562.92	505.04
05 12 23 00-0065	TON		6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,838.86 415.39 1,453.87	606.04
05 12 23 00-0066	TON		7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,521.25 384.24 1,344.83	673.31
05 12 23 00-0067	TON		8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,796.90 384.24 1,344.83	931.79
05 12 23 00-0068	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,220.74 392.55 1,373.91	1,231.77
05 12 23 00-0069	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,394.01 396.70 1,388.45	1,345.51
05 12 23 00-0070	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,574.86 396.70 1,388.45	1,515.11
05 12 23 00-0071	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	8,302.01 392.55 1,373.91	3,183.03
05 12 23 00-0072	TON		18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,931.83 382.16 1,337.57	2,020.13
05 12 23 00-0073	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	9,994.03 402.93 1,410.26	4,647.62
<b>05 12 23 00-0074</b>			<b>Square Structural Tubing</b> (05 12 23 00-0060)		
05 12 23 00-0075	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,894.53 519.24 1,817.34	378.77
05 12 23 00-0076	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,921.47 519.24 1,817.34	404.02
05 12 23 00-0077	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,250.35 456.93 1,599.26	505.04
05 12 23 00-0078	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,228.29 446.55 1,562.92	606.04
05 12 23 00-0079	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,065.84 340.62 1,192.18	757.55
05 12 23 00-0080	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,181.27 340.62 1,192.18	865.73
05 12 23 00-0081	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,550.67 340.62 1,192.18	1,212.08
05 12 23 00-0082	TON		7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,951.77 346.85 1,213.98	1,515.11
05 12 23 00-0083	TON		8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square ..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,191.45 402.93 1,410.26	2,020.13





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0084 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,268.86 402.93 1,410.26	3,030.20
05 12 23 00-0085 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,129.35 346.85 1,213.98	3,556.55
05 12 23 00-0086 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,890.18 394.62 1,381.18	4,647.62
05 12 23 00-0087 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	11,501.08 402.93 1,410.26	6,060.41
<b>05 12 23 00-0088 Structural Shapes</b> (05 12 23 00-0045)		
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF) ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For &gt;20 To 50 LB/LF, Deduct</i> <i>For &gt;50 To 75 LB/LF, Deduct</i> <i>For &gt;75 To 100 LB/LF, Deduct</i>	7,076.71 275.19 963.15 -889.52 -1,425.19 -1,960.87	2,291.23
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel ..... Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For &gt;21.5 To 50 LB/LF, Deduct</i>	5,372.76  332.32 1,163.13 -598.21	916.49
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF) .....	3.10	0.20
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports .....	3.75	0.20
<b>05 12 23 00-0093 Built-Up Trusses</b> (05 12 23 00-0045)		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up .....	5,606.50	303.02
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up .....	5,514.77	168.28
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up .....	4,898.04	89.09
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up .....	4,762.96	84.24
<b>05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps</b> (05 12 23 00-0045)		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	20.16	6.60
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	30.24	9.87
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	40.32	13.16
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	50.42	16.45
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	60.50	19.64
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	70.58	23.02
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	80.66	26.31
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	90.74	29.60
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	100.82	32.89
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	110.90	36.18
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	120.98	39.47
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	131.07	42.76
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	141.15	46.05
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	151.24	49.34
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	161.32	52.63
<b>05 12 23 00-0114 Accessories For Steel</b> (05 12 23)		
<b>05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat</b> (05 12 23 00-0114)		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat .....	0.97	
<b>05 12 23 00-0117 Connection And Stiffener Plates</b> (05 12 23 00-0114)		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates .....	11,992.23	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates .....	10,231.72	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates .....	7,912.40	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates .....	7,417.88	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates .....	7,417.88	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates .....	7,417.88	
<b>05 12 23 00-0129 Field Applied Cold Galvanizing</b> (05 12 23 00-0114)		
05 12 23 00-0130 SF Brush Applied Cold Galvanizing .....	1.66	



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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0131	<b>Metal Grinding</b> <small>(05 12 23 00-0114)</small>	
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132 SI	Metal Grinding Up To 1/32" Thickness To Be Removed.....	0.88
Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0133	<b>Structural Steel For Buildings And Structures</b> <small>(05 12 23)</small>	
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0134	<b>First Tier A992/A36 Structural Steel Columns, W Shapes</b> <small>(05 12 23 00-0133)</small>	
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135 LF	W14 x 730 A992/A36 Structural Column.....	1,138.66
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0136 LF	W14 x 665 A992/A36 Structural Column.....	1,038.69
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0137 LF	W14 x 605 A992/A36 Structural Column.....	946.32
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0138 LF	W14 x 550 A992/A36 Structural Column.....	861.53
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0139 LF	W14 x 500 A992/A36 Structural Column.....	789.54
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0140 LF	W14 x 426 A992/A36 Structural Column.....	673.81
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0141 LF	W14 x 342 A992/A36 Structural Column.....	545.26
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0142 LF	W14 x 311 A992/A36 Structural Column.....	491.31
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0143 LF	W14 x 283 A992/A36 Structural Column.....	446.13
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0144 LF	W14 x 257 A992/A36 Structural Column.....	392.51
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0145 LF	W14 x 233 A992/A36 Structural Column.....	361.25
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0146 LF	W14 x 211 A992/A36 Structural Column.....	321.54
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0147 LF	W14 x 193 A992/A36 Structural Column.....	291.01
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0148 LF	W14 x 176 A992/A36 Structural Column.....	262.51
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0149 LF	W14 x 159 A992/A36 Structural Column.....	237.59
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0150 LF	W14 x 145 A992/A36 Structural Column.....	229.62
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		
05 12 23 00-0151 LF	W14 x 132 A992/A36 Structural Column.....	196.74
For Hot Dip Galvanizing, Add		
For High Strength Low Alloy A572-50 Steel, Add		
For High Strength Low Alloy A588 Grade B Steel, Add		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0152	LF		W14 x 120 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	184.59 44.52 16.61 36.92	22.63
05 12 23 00-0153	LF		W14 x 109 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	165.50 39.51 14.90 33.10	21.72
05 12 23 00-0154	LF		W14 x 99 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	151.21 35.74 13.61 30.24	21.11
05 12 23 00-0155	LF		W14 x 90 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	140.62 32.94 12.66 28.12	20.61
05 12 23 00-0156	LF		W14 x 82 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	129.71 30.08 11.67 25.94	20.00
05 12 23 00-0157	LF		W14 x 74 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	117.32 26.81 10.56 23.46	19.50
05 12 23 00-0158	LF		W14 x 68 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	109.74 24.79 9.88 21.95	19.19
05 12 23 00-0159	LF		W14 x 61 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	100.25 22.30 9.02 20.05	18.68
05 12 23 00-0160	LF		W14 x 53 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.49 20.01 8.23 18.30	18.18
05 12 23 00-0161	LF		W14 x 48 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	85.84 18.52 7.73 17.17	17.88
05 12 23 00-0162	LF		W14 x 43 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	77.68 16.37 6.99 15.54	17.57
05 12 23 00-0163	LF		W12 x 336 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	519.11 135.68 46.72 103.82	28.30
05 12 23 00-0164	LF		W12 x 305 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	473.41 123.16 42.61 94.68	27.74
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	435.21 112.67 39.17 87.04	27.41
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	395.19 101.76 35.57 79.04	26.72
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	362.76 92.88 32.65 72.55	26.33
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	333.27 84.80 29.99 66.65	25.97
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	306.29 76.73 27.57 61.26	27.88
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	277.04 68.89 24.93 55.41	27.07
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	249.85 61.90 22.49 49.97	25.15
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	237.61 58.71 21.38 47.52	24.45

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column.....	180.49	22.43
			<i>For Hot Dip Galvanizing, Add</i>	43.41	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.24	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.10	
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column.....	166.47	21.72
			<i>For Hot Dip Galvanizing, Add</i>	39.78	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.98	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.29	
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column.....	149.15	21.01
			<i>For Hot Dip Galvanizing, Add</i>	35.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.42	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.83	
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column.....	137.75	20.30
			<i>For Hot Dip Galvanizing, Add</i>	32.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.40	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	27.55	
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column.....	121.14	19.70
			<i>For Hot Dip Galvanizing, Add</i>	27.79	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.90	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.23	
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column.....	111.04	19.19
			<i>For Hot Dip Galvanizing, Add</i>	25.12	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.99	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.21	
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column.....	101.68	18.79
			<i>For Hot Dip Galvanizing, Add</i>	22.67	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.15	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.34	
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column.....	98.45	18.59
			<i>For Hot Dip Galvanizing, Add</i>	21.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.86	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.69	
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column.....	91.49	18.18
			<i>For Hot Dip Galvanizing, Add</i>	20.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.23	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.30	
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column.....	88.72	18.08
			<i>For Hot Dip Galvanizing, Add</i>	19.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.98	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.74	
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column.....	80.79	17.68
			<i>For Hot Dip Galvanizing, Add</i>	17.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	16.16	
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column.....	72.61	17.27
			<i>For Hot Dip Galvanizing, Add</i>	15.02	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.53	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.52	
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column.....	174.04	22.12
			<i>For Hot Dip Galvanizing, Add</i>	41.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.66	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.81	
05 12 23 00-0186	LF		W10 x 110 A992/A36 Structural Column.....	157.60	21.21
			<i>For Hot Dip Galvanizing, Add</i>	37.45	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.18	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.52	
05 12 23 00-0187	LF		W10 x 88 A992/A36 Structural Column.....	141.86	20.50
			<i>For Hot Dip Galvanizing, Add</i>	33.31	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.77	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.37	
05 12 23 00-0188	LF		W10 x 77 A992/A36 Structural Column.....	126.36	19.70
			<i>For Hot Dip Galvanizing, Add</i>	29.23	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.37	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.27	
05 12 23 00-0189	LF		W10 x 68 A992/A36 Structural Column.....	113.99	19.19
			<i>For Hot Dip Galvanizing, Add</i>	25.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.26	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.80	
05 12 23 00-0190	LF		W10 x 60 A992/A36 Structural Column.....	100.25	18.68
			<i>For Hot Dip Galvanizing, Add</i>	22.30	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.02	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.05	
05 12 23 00-0191	LF		W10 x 54 A992/A36 Structural Column.....	99.56	18.38
			<i>For Hot Dip Galvanizing, Add</i>	22.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.96	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.91	
05 12 23 00-0192	LF		W10 x 49 A992/A36 Structural Column.....	87.64	18.08
			<i>For Hot Dip Galvanizing, Add</i>	18.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.53	
05 12 23 00-0193	LF		W10 x 45 A992/A36 Structural Column.....	84.65	17.78
			<i>For Hot Dip Galvanizing, Add</i>	18.22	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.62	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	16.93	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0194	LF		W10 x 39 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	73.94 15.36 6.65 14.79	17.48
05 12 23 00-0195	LF		W10 x 33 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	64.70 12.93 5.82 12.94	16.97
05 12 23 00-0196	LF		W8 x 67 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	109.86 24.82 9.89 21.97	19.19
05 12 23 00-0197	LF		W8 x 58 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.81 21.93 8.89 19.76	18.59
05 12 23 00-0198	LF		W8 x 48 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.62 19.27 7.98 17.72	18.08
05 12 23 00-0199	LF		W8 x 40 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	76.33 16.00 6.87 15.27	17.57
05 12 23 00-0200	LF		W8 x 35 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	69.14 14.11 6.22 13.83	17.18
05 12 23 00-0201	LF		W8 x 31 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.36 12.56 5.70 12.67	16.97
05 12 23 00-0202	LF		W8 x 28 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.75 11.62 5.38 11.95	16.77
05 12 23 00-0203	LF		W8 x 24 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	55.43 10.48 4.99 11.09	16.57
05 12 23 00-0204	LF		W8 x 21 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.56 9.73 4.73 10.51	16.46
05 12 23 00-0205	LF		W8 x 18 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.13 8.29 4.24 9.43	16.16
05 12 23 00-0206	LF		W6 x 25 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.10 11.22 5.23 11.62	16.57
05 12 23 00-0207	LF		W6 x 20 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	49.41 8.89 4.45 9.88	16.27
05 12 23 00-0208	LF		W6 x 15 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	42.60 7.14 3.83 8.52	15.75
05 12 23 00-0209	LF		W6 x 12 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.05 6.43 3.60 8.01	15.75
05 12 23 00-0210	LF		W6 x 9 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.80 5.56 3.31 7.36	15.66
05 12 23 00-0211	LF		W5 x 19 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.68 8.69 4.38 9.74	16.27
05 12 23 00-0212	LF		W5 x 16 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.97 7.71 4.05 8.99	16.16
05 12 23 00-0213	LF		W4 x 13 A992/A36 Structural Column ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	42.22 7.01 3.80 8.44	15.96

05 12 23 00-0214 A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0133)  
Note: Includes material delivery and erection.

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0215	LF		W36 x 300 A992/A36 Structural Beam Or Girder.....	385.95	69.60
			For Hot Dip Galvanizing, Add	86.50	
			For High Strength Low Alloy A572-50 Steel, Add	34.74	
			For High Strength Low Alloy A588 Steel, Add	77.19	
			For Each Additional Top Copes >2, Add	3.12	
			For Structural Tees, WT, MT Or ST, Deduct	-123.95	
			For Skewed Or Sloped Connections, Add	46.31	
05 12 23 00-0216	LF		W36 x 280 A992/A36 Structural Beam Or Girder.....	371.73	75.75
			For Hot Dip Galvanizing, Add	80.73	
			For High Strength Low Alloy A572-50 Steel, Add	33.46	
			For High Strength Low Alloy A588 Steel, Add	74.35	
			For Each Additional Top Copes >2, Add	2.91	
			For Structural Tees, WT, MT Or ST, Deduct	-117.99	
			For Skewed Or Sloped Connections, Add	44.61	
05 12 23 00-0217	LF		W36 x 260 A992/A36 Structural Beam Or Girder.....	352.64	74.84
			For Hot Dip Galvanizing, Add	75.72	
			For High Strength Low Alloy A572-50 Steel, Add	31.74	
			For High Strength Low Alloy A588 Steel, Add	70.53	
			For Each Additional Top Copes >2, Add	2.73	
			For Structural Tees, WT, MT Or ST, Deduct	-111.46	
			For Skewed Or Sloped Connections, Add	42.32	
05 12 23 00-0218	LF		W36 x 240 A992/A36 Structural Beam Or Girder.....	330.66	67.08
			For Hot Dip Galvanizing, Add	71.90	
			For High Strength Low Alloy A572-50 Steel, Add	29.76	
			For High Strength Low Alloy A588 Steel, Add	66.13	
			For Each Additional Top Copes >2, Add	2.59	
			For Structural Tees, WT, MT Or ST, Deduct	-105.00	
			For Skewed Or Sloped Connections, Add	39.68	
05 12 23 00-0219	LF		W36 x 230 A992/A36 Structural Beam Or Girder.....	320.88	68.03
			For Hot Dip Galvanizing, Add	68.91	
			For High Strength Low Alloy A572-50 Steel, Add	28.88	
			For High Strength Low Alloy A588 Steel, Add	64.18	
			For Each Additional Top Copes >2, Add	2.48	
			For Structural Tees, WT, MT Or ST, Deduct	-101.42	
			For Skewed Or Sloped Connections, Add	38.51	
05 12 23 00-0220	LF		W36 x 210 A992/A36 Structural Beam Or Girder.....	303.99	72.43
			For Hot Dip Galvanizing, Add	62.91	
			For High Strength Low Alloy A572-50 Steel, Add	27.36	
			For High Strength Low Alloy A588 Steel, Add	60.80	
			For Each Additional Top Copes >2, Add	2.27	
			For Structural Tees, WT, MT Or ST, Deduct	-94.81	
			For Skewed Or Sloped Connections, Add	36.48	
05 12 23 00-0221	LF		W36 x 194 A992/A36 Structural Beam Or Girder.....	288.38	65.07
			For Hot Dip Galvanizing, Add	60.77	
			For High Strength Low Alloy A572-50 Steel, Add	25.95	
			For High Strength Low Alloy A588 Steel, Add	57.68	
			For Each Additional Top Copes >2, Add	2.19	
			For Structural Tees, WT, MT Or ST, Deduct	-90.52	
			For Skewed Or Sloped Connections, Add	34.61	
05 12 23 00-0222	LF		W36 x 182 A992/A36 Structural Beam Or Girder.....	274.33	64.58
			For Hot Dip Galvanizing, Add	57.01	
			For High Strength Low Alloy A572-50 Steel, Add	24.69	
			For High Strength Low Alloy A588 Steel, Add	54.87	
			For Each Additional Top Copes >2, Add	2.05	
			For Structural Tees, WT, MT Or ST, Deduct	-85.68	
			For Skewed Or Sloped Connections, Add	32.92	
05 12 23 00-0223	LF		W36 x 170 A992/A36 Structural Beam Or Girder.....	259.98	63.85
			For Hot Dip Galvanizing, Add	53.25	
			For High Strength Low Alloy A572-50 Steel, Add	23.40	
			For High Strength Low Alloy A588 Steel, Add	52.00	
			For Each Additional Top Copes >2, Add	1.92	
			For Structural Tees, WT, MT Or ST, Deduct	-80.78	
			For Skewed Or Sloped Connections, Add	31.20	
05 12 23 00-0224	LF		W36 x 160 A992/A36 Structural Beam Or Girder.....	255.35	70.10
			For Hot Dip Galvanizing, Add	50.12	
			For High Strength Low Alloy A572-50 Steel, Add	22.98	
			For High Strength Low Alloy A588 Steel, Add	51.07	
			For Each Additional Top Copes >2, Add	1.81	
			For Structural Tees, WT, MT Or ST, Deduct	-78.16	
			For Skewed Or Sloped Connections, Add	30.64	
05 12 23 00-0225	LF		W36 x 150 A992/A36 Structural Beam Or Girder.....	245.39	69.59
			For Hot Dip Galvanizing, Add	47.49	
			For High Strength Low Alloy A572-50 Steel, Add	22.09	
			For High Strength Low Alloy A588 Steel, Add	49.08	
			For Each Additional Top Copes >2, Add	1.71	
			For Structural Tees, WT, MT Or ST, Deduct	-74.75	
			For Skewed Or Sloped Connections, Add	29.45	
05 12 23 00-0226	LF		W36 x 135 A992/A36 Structural Beam Or Girder.....	231.44	68.98
			For Hot Dip Galvanizing, Add	43.82	
			For High Strength Low Alloy A572-50 Steel, Add	20.83	
			For High Strength Low Alloy A588 Steel, Add	46.29	
			For Each Additional Top Copes >2, Add	1.58	
			For Structural Tees, WT, MT Or ST, Deduct	-69.97	
			For Skewed Or Sloped Connections, Add	27.77	





	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23	00-0227	LF	W33 x 241 A992/A36 Structural Beam Or Girder.....	335.16	69.19
			<i>For Hot Dip Galvanizing, Add</i>	72.53	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	30.16	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	67.03	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.61	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-106.24	
			<i>For Skewed Or Sloped Connections, Add</i>	40.22	
05 12 23	00-0228	LF	W33 x 221 A992/A36 Structural Beam Or Girder.....	311.67	67.49
			<i>For Hot Dip Galvanizing, Add</i>	66.51	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.05	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	62.33	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.40	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-98.29	
			<i>For Skewed Or Sloped Connections, Add</i>	37.40	
05 12 23	00-0229	LF	W33 x 201 A992/A36 Structural Beam Or Girder.....	294.75	71.91
			<i>For Hot Dip Galvanizing, Add</i>	60.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.53	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	58.95	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.18	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-91.65	
			<i>For Skewed Or Sloped Connections, Add</i>	35.37	
05 12 23	00-0230	LF	W33 x 170 A992/A36 Structural Beam Or Girder.....	266.05	70.61
			<i>For Hot Dip Galvanizing, Add</i>	52.95	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	53.21	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.83	
			<i>For Skewed Or Sloped Connections, Add</i>	31.93	
05 12 23	00-0231	LF	W33 x 152 A992/A36 Structural Beam Or Girder.....	244.25	63.65
			<i>For Hot Dip Galvanizing, Add</i>	48.94	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	48.85	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.76	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-75.31	
			<i>For Skewed Or Sloped Connections, Add</i>	29.31	
05 12 23	00-0232	LF	W33 x 141 A992/A36 Structural Beam Or Girder.....	237.45	69.19
			<i>For Hot Dip Galvanizing, Add</i>	45.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.37	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.49	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.64	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-72.03	
			<i>For Skewed Or Sloped Connections, Add</i>	28.49	
05 12 23	00-0233	LF	W33 x 130 A992/A36 Structural Beam Or Girder.....	226.16	68.68
			<i>For Hot Dip Galvanizing, Add</i>	42.44	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.35	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	45.23	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.53	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-68.17	
			<i>For Skewed Or Sloped Connections, Add</i>	27.14	
05 12 23	00-0234	LF	W33 x 118 A992/A36 Structural Beam Or Girder.....	213.05	68.07
			<i>For Hot Dip Galvanizing, Add</i>	38.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.17	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	42.61	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.40	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-63.67	
			<i>For Skewed Or Sloped Connections, Add</i>	25.57	
05 12 23	00-0235	LF	W30 x 211 A992/A36 Structural Beam Or Girder.....	299.53	67.36
			<i>For Hot Dip Galvanizing, Add</i>	63.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	59.91	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.28	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-94.06	
			<i>For Skewed Or Sloped Connections, Add</i>	35.94	
05 12 23	00-0236	LF	W30 x 191 A992/A36 Structural Beam Or Girder.....	282.35	71.41
			<i>For Hot Dip Galvanizing, Add</i>	57.19	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.41	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	56.47	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.06	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-87.38	
			<i>For Skewed Or Sloped Connections, Add</i>	33.88	
05 12 23	00-0237	LF	W30 x 173 A992/A36 Structural Beam Or Girder.....	260.97	64.29
			<i>For Hot Dip Galvanizing, Add</i>	53.39	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.49	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	52.19	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.92	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.05	
			<i>For Skewed Or Sloped Connections, Add</i>	31.32	
05 12 23	00-0238	LF	W30 x 154 A992/A36 Structural Beam Or Girder.....	245.60	69.70
			<i>For Hot Dip Galvanizing, Add</i>	47.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	49.12	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-74.81	
			<i>For Skewed Or Sloped Connections, Add</i>	29.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0239 LF W30 x 132 A992/A36 Structural Beam Or Girder.....	221.40	62.03
For Hot Dip Galvanizing, Add	43.08	
For High Strength Low Alloy A572-50 Steel, Add	19.93	
For High Strength Low Alloy A588 Steel, Add	44.28	
For Each Additional Top Copes >2, Add	1.55	
For Structural Tees, WT, MT Or ST, Deduct	-67.57	
For Skewed Or Sloped Connections, Add	26.57	
05 12 23 00-0240 LF W30 x 124 A992/A36 Structural Beam Or Girder.....	211.95	62.00
For Hot Dip Galvanizing, Add	40.47	
For High Strength Low Alloy A572-50 Steel, Add	19.08	
For High Strength Low Alloy A588 Steel, Add	42.39	
For Each Additional Top Copes >2, Add	1.46	
For Structural Tees, WT, MT Or ST, Deduct	-64.26	
For Skewed Or Sloped Connections, Add	25.43	
05 12 23 00-0241 LF W30 x 116 A992/A36 Structural Beam Or Girder.....	208.94	67.98
For Hot Dip Galvanizing, Add	37.86	
For High Strength Low Alloy A572-50 Steel, Add	18.80	
For High Strength Low Alloy A588 Steel, Add	41.79	
For Each Additional Top Copes >2, Add	1.36	
For Structural Tees, WT, MT Or ST, Deduct	-62.25	
For Skewed Or Sloped Connections, Add	25.07	
05 12 23 00-0242 LF W30 x 108 A992/A36 Structural Beam Or Girder.....	192.93	61.21
For Hot Dip Galvanizing, Add	35.43	
For High Strength Low Alloy A572-50 Steel, Add	17.36	
For High Strength Low Alloy A588 Steel, Add	38.59	
For Each Additional Top Copes >2, Add	1.28	
For Structural Tees, WT, MT Or ST, Deduct	-57.74	
For Skewed Or Sloped Connections, Add	23.15	
05 12 23 00-0243 LF W30 x 99 A992/A36 Structural Beam Or Girder.....	184.88	60.91
For Hot Dip Galvanizing, Add	33.31	
For High Strength Low Alloy A572-50 Steel, Add	16.64	
For High Strength Low Alloy A588 Steel, Add	36.98	
For Each Additional Top Copes >2, Add	1.20	
For Structural Tees, WT, MT Or ST, Deduct	-54.98	
For Skewed Or Sloped Connections, Add	22.19	
05 12 23 00-0244 LF W27 x 178 A992/A36 Structural Beam Or Girder.....	291.05	75.27
For Hot Dip Galvanizing, Add	58.48	
For High Strength Low Alloy A572-50 Steel, Add	26.19	
For High Strength Low Alloy A588 Steel, Add	58.21	
For Each Additional Top Copes >2, Add	2.11	
For Structural Tees, WT, MT Or ST, Deduct	-89.82	
For Skewed Or Sloped Connections, Add	34.93	
05 12 23 00-0245 LF W27 x 161 A992/A36 Structural Beam Or Girder.....	267.88	72.43
For Hot Dip Galvanizing, Add	52.90	
For High Strength Low Alloy A572-50 Steel, Add	24.11	
For High Strength Low Alloy A588 Steel, Add	53.58	
For Each Additional Top Copes >2, Add	1.91	
For Structural Tees, WT, MT Or ST, Deduct	-82.17	
For Skewed Or Sloped Connections, Add	32.15	
05 12 23 00-0246 LF W27 x 146 A992/A36 Structural Beam Or Girder.....	247.39	69.87
For Hot Dip Galvanizing, Add	47.97	
For High Strength Low Alloy A572-50 Steel, Add	22.27	
For High Strength Low Alloy A588 Steel, Add	49.48	
For Each Additional Top Copes >2, Add	1.73	
For Structural Tees, WT, MT Or ST, Deduct	-75.41	
For Skewed Or Sloped Connections, Add	29.69	
05 12 23 00-0247 LF W27 x 114 A992/A36 Structural Beam Or Girder.....	196.88	58.04
For Hot Dip Galvanizing, Add	37.45	
For High Strength Low Alloy A572-50 Steel, Add	17.72	
For High Strength Low Alloy A588 Steel, Add	39.38	
For Each Additional Top Copes >2, Add	1.35	
For Structural Tees, WT, MT Or ST, Deduct	-59.62	
For Skewed Or Sloped Connections, Add	23.63	
05 12 23 00-0248 LF W27 x 102 A992/A36 Structural Beam Or Girder.....	185.72	60.91
For Hot Dip Galvanizing, Add	33.51	
For High Strength Low Alloy A572-50 Steel, Add	16.71	
For High Strength Low Alloy A588 Steel, Add	37.14	
For Each Additional Top Copes >2, Add	1.21	
For Structural Tees, WT, MT Or ST, Deduct	-55.26	
For Skewed Or Sloped Connections, Add	22.29	
05 12 23 00-0249 LF W27 x 94 A992/A36 Structural Beam Or Girder.....	178.14	60.50
For Hot Dip Galvanizing, Add	31.52	
For High Strength Low Alloy A572-50 Steel, Add	16.03	
For High Strength Low Alloy A588 Steel, Add	35.63	
For Each Additional Top Copes >2, Add	1.14	
For Structural Tees, WT, MT Or ST, Deduct	-52.67	
For Skewed Or Sloped Connections, Add	21.38	
05 12 23 00-0250 LF W27 x 84 A992/A36 Structural Beam Or Girder.....	168.91	60.10
For Hot Dip Galvanizing, Add	29.10	
For High Strength Low Alloy A572-50 Steel, Add	15.20	
For High Strength Low Alloy A588 Steel, Add	33.78	
For Each Additional Top Copes >2, Add	1.05	
For Structural Tees, WT, MT Or ST, Deduct	-49.51	
For Skewed Or Sloped Connections, Add	20.27	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0251	LF		W24 x 162 A992/A36 Structural Beam Or Girder.....	257.93	69.44
			<i>For Hot Dip Galvanizing, Add</i>	51.02	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.21	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.59	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.84	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.17	
			<i>For Skewed Or Sloped Connections, Add</i>	30.95	
05 12 23 00-0252	LF		W24 x 146 A992/A36 Structural Beam Or Girder.....	236.72	66.57
			<i>For Hot Dip Galvanizing, Add</i>	45.98	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.30	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.34	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-72.20	
			<i>For Skewed Or Sloped Connections, Add</i>	28.41	
05 12 23 00-0253	LF		W24 x 131 A992/A36 Structural Beam Or Girder.....	216.46	63.55
			<i>For Hot Dip Galvanizing, Add</i>	41.26	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.48	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	43.29	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.49	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-65.59	
			<i>For Skewed Or Sloped Connections, Add</i>	25.98	
05 12 23 00-0254	LF		W24 x 117 A992/A36 Structural Beam Or Girder.....	197.19	60.38
			<i>For Hot Dip Galvanizing, Add</i>	36.85	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.75	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.44	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.33	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.36	
			<i>For Skewed Or Sloped Connections, Add</i>	23.66	
05 12 23 00-0255	LF		W24 x 104 A992/A36 Structural Beam Or Girder.....	178.94	57.10
			<i>For Hot Dip Galvanizing, Add</i>	32.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	35.79	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.18	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-53.49	
			<i>For Skewed Or Sloped Connections, Add</i>	21.47	
05 12 23 00-0256	LF		W24 x 94 A992/A36 Structural Beam Or Girder.....	171.23	60.50
			<i>For Hot Dip Galvanizing, Add</i>	29.61	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.41	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.25	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.07	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-50.25	
			<i>For Skewed Or Sloped Connections, Add</i>	20.55	
05 12 23 00-0257	LF		W24 x 84 A992/A36 Structural Beam Or Girder.....	155.82	53.64
			<i>For Hot Dip Galvanizing, Add</i>	27.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.16	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.99	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.95	
			<i>For Skewed Or Sloped Connections, Add</i>	18.70	
05 12 23 00-0258	LF		W24 x 76 A992/A36 Structural Beam Or Girder.....	148.74	53.23
			<i>For Hot Dip Galvanizing, Add</i>	25.50	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.39	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.75	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.92	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.53	
			<i>For Skewed Or Sloped Connections, Add</i>	17.85	
05 12 23 00-0259	LF		W24 x 68 A992/A36 Structural Beam Or Girder.....	139.84	52.93
			<i>For Hot Dip Galvanizing, Add</i>	23.14	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.59	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.97	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.48	
			<i>For Skewed Or Sloped Connections, Add</i>	16.78	
05 12 23 00-0260	LF		W24 x 62 A992/A36 Structural Beam Or Girder.....	135.17	52.62
			<i>For Hot Dip Galvanizing, Add</i>	21.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.17	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.03	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.79	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.89	
			<i>For Skewed Or Sloped Connections, Add</i>	16.22	
05 12 23 00-0261	LF		W24 x 55 A992/A36 Structural Beam Or Girder.....	128.80	52.43
			<i>For Hot Dip Galvanizing, Add</i>	20.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.59	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.76	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.70	
			<i>For Skewed Or Sloped Connections, Add</i>	15.46	
05 12 23 00-0262	LF		W21 x 147 A992/A36 Structural Beam Or Girder.....	224.76	57.11
			<i>For Hot Dip Galvanizing, Add</i>	45.47	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.95	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.64	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-69.53	
			<i>For Skewed Or Sloped Connections, Add</i>	26.97	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0263	LF		W21 x 132 A992/A36 Structural Beam Or Girder.....	205.31	54.56
			<i>For Hot Dip Galvanizing, Add</i>	40.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.48	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.06	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.47	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-63.13	
			<i>For Skewed Or Sloped Connections, Add</i>	24.64	
05 12 23 00-0264	LF		W21 x 122 A992/A36 Structural Beam Or Girder.....	193.19	53.65
			<i>For Hot Dip Galvanizing, Add</i>	37.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.39	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.64	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.36	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.03	
			<i>For Skewed Or Sloped Connections, Add</i>	23.18	
05 12 23 00-0265	LF		W21 x 111 A992/A36 Structural Beam Or Girder.....	179.10	51.92
			<i>For Hot Dip Galvanizing, Add</i>	34.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.12	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	35.82	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.24	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-54.38	
			<i>For Skewed Or Sloped Connections, Add</i>	21.49	
05 12 23 00-0266	LF		W21 x 101 A992/A36 Structural Beam Or Girder.....	166.18	50.27
			<i>For Hot Dip Galvanizing, Add</i>	31.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	33.24	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.13	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-50.12	
			<i>For Skewed Or Sloped Connections, Add</i>	19.94	
05 12 23 00-0267	LF		W21 x 93 A992/A36 Structural Beam Or Girder.....	161.53	54.24
			<i>For Hot Dip Galvanizing, Add</i>	28.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.54	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.31	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.04	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.85	
			<i>For Skewed Or Sloped Connections, Add</i>	19.38	
05 12 23 00-0268	LF		W21 x 83 A992/A36 Structural Beam Or Girder.....	153.15	53.64
			<i>For Hot Dip Galvanizing, Add</i>	26.61	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.78	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.63	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.96	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.01	
			<i>For Skewed Or Sloped Connections, Add</i>	18.38	
05 12 23 00-0269	LF		W21 x 73 A992/A36 Structural Beam Or Girder.....	142.94	53.23
			<i>For Hot Dip Galvanizing, Add</i>	23.91	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.86	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.59	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.86	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.51	
			<i>For Skewed Or Sloped Connections, Add</i>	17.15	
05 12 23 00-0270	LF		W21 x 68 A992/A36 Structural Beam Or Girder.....	137.78	52.93
			<i>For Hot Dip Galvanizing, Add</i>	22.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.40	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.56	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.75	
			<i>For Skewed Or Sloped Connections, Add</i>	16.53	
05 12 23 00-0271	LF		W21 x 62 A992/A36 Structural Beam Or Girder.....	133.11	52.62
			<i>For Hot Dip Galvanizing, Add</i>	21.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.62	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.77	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.16	
			<i>For Skewed Or Sloped Connections, Add</i>	15.97	
05 12 23 00-0272	LF		W21 x 57 A992/A36 Structural Beam Or Girder.....	128.90	52.52
			<i>For Hot Dip Galvanizing, Add</i>	20.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.60	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.78	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.72	
			<i>For Skewed Or Sloped Connections, Add</i>	15.47	
05 12 23 00-0273	LF		W21 x 50 A992/A36 Structural Beam Or Girder.....	114.10	45.55
			<i>For Hot Dip Galvanizing, Add</i>	18.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.27	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.82	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.65	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-32.63	
			<i>For Skewed Or Sloped Connections, Add</i>	13.69	
05 12 23 00-0274	LF		W21 x 44 A992/A36 Structural Beam Or Girder.....	109.20	45.35
			<i>For Hot Dip Galvanizing, Add</i>	16.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.83	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.84	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.61	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-30.96	
			<i>For Skewed Or Sloped Connections, Add</i>	13.10	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23	00-0275	LF	W18 x 119 A992/A36 Structural Beam Or Girder.....	188.21	53.45
			<i>For Hot Dip Galvanizing, Add</i>	36.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.64	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-57.32	
			<i>For Skewed Or Sloped Connections, Add</i>	22.59	
05 12 23	00-0276	LF	W18 x 106 A992/A36 Structural Beam Or Girder.....	170.89	50.67
			<i>For Hot Dip Galvanizing, Add</i>	32.43	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.38	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.18	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-51.71	
			<i>For Skewed Or Sloped Connections, Add</i>	20.51	
05 12 23	00-0277	LF	W18 x 97 A992/A36 Structural Beam Or Girder.....	164.91	54.24
			<i>For Hot Dip Galvanizing, Add</i>	29.67	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.84	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.98	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.07	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-49.02	
			<i>For Skewed Or Sloped Connections, Add</i>	19.79	
05 12 23	00-0278	LF	W18 x 86 A992/A36 Structural Beam Or Girder.....	155.32	53.73
			<i>For Hot Dip Galvanizing, Add</i>	27.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.06	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.98	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.76	
			<i>For Skewed Or Sloped Connections, Add</i>	18.64	
05 12 23	00-0279	LF	W18 x 76 A992/A36 Structural Beam Or Girder.....	146.68	53.23
			<i>For Hot Dip Galvanizing, Add</i>	24.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.20	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.34	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.90	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-42.81	
			<i>For Skewed Or Sloped Connections, Add</i>	17.60	
05 12 23	00-0280	LF	W18 x 71 A992/A36 Structural Beam Or Girder.....	140.41	53.13
			<i>For Hot Dip Galvanizing, Add</i>	23.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.64	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.08	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.84	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.64	
			<i>For Skewed Or Sloped Connections, Add</i>	16.85	
05 12 23	00-0281	LF	W18 x 65 A992/A36 Structural Beam Or Girder.....	134.28	52.93
			<i>For Hot Dip Galvanizing, Add</i>	21.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.09	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.86	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.78	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.54	
			<i>For Skewed Or Sloped Connections, Add</i>	16.11	
05 12 23	00-0282	LF	W18 x 60 A992/A36 Structural Beam Or Girder.....	128.76	52.52
			<i>For Hot Dip Galvanizing, Add</i>	20.17	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.59	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.75	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.66	
			<i>For Skewed Or Sloped Connections, Add</i>	15.45	
05 12 23	00-0283	LF	W18 x 55 A992/A36 Structural Beam Or Girder.....	123.22	52.43
			<i>For Hot Dip Galvanizing, Add</i>	18.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.09	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.64	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.75	
			<i>For Skewed Or Sloped Connections, Add</i>	14.79	
05 12 23	00-0284	LF	W18 x 50 A992/A36 Structural Beam Or Girder.....	110.70	45.55
			<i>For Hot Dip Galvanizing, Add</i>	17.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.14	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.62	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-31.44	
			<i>For Skewed Or Sloped Connections, Add</i>	13.28	
05 12 23	00-0285	LF	W18 x 46 A992/A36 Structural Beam Or Girder.....	106.38	45.45
			<i>For Hot Dip Galvanizing, Add</i>	16.07	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.57	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.28	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.58	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-29.96	
			<i>For Skewed Or Sloped Connections, Add</i>	12.77	
05 12 23	00-0286	LF	W18 x 40 A992/A36 Structural Beam Or Girder.....	92.87	38.79
			<i>For Hot Dip Galvanizing, Add</i>	14.28	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.36	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.57	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.51	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.29	
			<i>For Skewed Or Sloped Connections, Add</i>	11.14	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0287 LF W18 x 35 A992/A36 Structural Beam Or Girder.....	87.45	38.68
For Hot Dip Galvanizing, Add	12.83	
For High Strength Low Alloy A572-50 Steel, Add	7.87	
For High Strength Low Alloy A588 Steel, Add	17.49	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-24.43	
For Skewed Or Sloped Connections, Add	10.49	
05 12 23 00-0288 LF W16 x 100 A992/A36 Structural Beam Or Girder.....	152.51	35.25
For Hot Dip Galvanizing, Add	31.90	
For High Strength Low Alloy A572-50 Steel, Add	13.73	
For High Strength Low Alloy A588 Steel, Add	30.50	
For Each Additional Top Copes >2, Add	1.15	
For Structural Tees, WT, MT Or ST, Deduct	-47.74	
For Skewed Or Sloped Connections, Add	18.30	
05 12 23 00-0289 LF W16 x 89 A992/A36 Structural Beam Or Girder.....	140.26	34.64
For Hot Dip Galvanizing, Add	28.66	
For High Strength Low Alloy A572-50 Steel, Add	12.62	
For High Strength Low Alloy A588 Steel, Add	28.05	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-43.55	
For Skewed Or Sloped Connections, Add	16.83	
05 12 23 00-0290 LF W16 x 77 A992/A36 Structural Beam Or Girder.....	127.13	34.25
For Hot Dip Galvanizing, Add	25.16	
For High Strength Low Alloy A572-50 Steel, Add	11.44	
For High Strength Low Alloy A588 Steel, Add	25.43	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-39.03	
For Skewed Or Sloped Connections, Add	15.26	
05 12 23 00-0291 LF W16 x 67 A992/A36 Structural Beam Or Girder.....	115.94	33.73
For Hot Dip Galvanizing, Add	22.19	
For High Strength Low Alloy A572-50 Steel, Add	10.43	
For High Strength Low Alloy A588 Steel, Add	23.19	
For Each Additional Top Copes >2, Add	0.80	
For Structural Tees, WT, MT Or ST, Deduct	-35.19	
For Skewed Or Sloped Connections, Add	13.91	
05 12 23 00-0292 LF W16 x 57 A992/A36 Structural Beam Or Girder.....	104.88	33.23
For Hot Dip Galvanizing, Add	19.27	
For High Strength Low Alloy A572-50 Steel, Add	9.44	
For High Strength Low Alloy A588 Steel, Add	20.98	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-31.39	
For Skewed Or Sloped Connections, Add	12.59	
05 12 23 00-0293 LF W16 x 50 A992/A36 Structural Beam Or Girder.....	97.17	32.93
For Hot Dip Galvanizing, Add	17.21	
For High Strength Low Alloy A572-50 Steel, Add	8.75	
For High Strength Low Alloy A588 Steel, Add	19.43	
For Each Additional Top Copes >2, Add	0.62	
For Structural Tees, WT, MT Or ST, Deduct	-28.74	
For Skewed Or Sloped Connections, Add	11.66	
05 12 23 00-0294 LF W16 x 45 A992/A36 Structural Beam Or Girder.....	91.75	32.73
For Hot Dip Galvanizing, Add	15.76	
For High Strength Low Alloy A572-50 Steel, Add	8.26	
For High Strength Low Alloy A588 Steel, Add	18.35	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-26.87	
For Skewed Or Sloped Connections, Add	11.01	
05 12 23 00-0295 LF W16 x 40 A992/A36 Structural Beam Or Girder.....	86.10	32.43
For Hot Dip Galvanizing, Add	14.28	
For High Strength Low Alloy A572-50 Steel, Add	7.75	
For High Strength Low Alloy A588 Steel, Add	17.22	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-24.94	
For Skewed Or Sloped Connections, Add	10.33	
05 12 23 00-0296 LF W16 x 36 A992/A36 Structural Beam Or Girder.....	81.68	32.22
For Hot Dip Galvanizing, Add	13.14	
For High Strength Low Alloy A572-50 Steel, Add	7.35	
For High Strength Low Alloy A588 Steel, Add	16.34	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-23.44	
For Skewed Or Sloped Connections, Add	9.80	
05 12 23 00-0297 LF W16 x 31 A992/A36 Structural Beam Or Girder.....	69.36	25.66
For Hot Dip Galvanizing, Add	11.65	
For High Strength Low Alloy A572-50 Steel, Add	6.24	
For High Strength Low Alloy A588 Steel, Add	13.87	
For Each Additional Top Copes >2, Add	0.42	
For Structural Tees, WT, MT Or ST, Deduct	-20.17	
For Skewed Or Sloped Connections, Add	8.32	
05 12 23 00-0298 LF W16 x 26 A992/A36 Structural Beam Or Girder.....	62.28	25.36
For Hot Dip Galvanizing, Add	9.77	
For High Strength Low Alloy A572-50 Steel, Add	5.61	
For High Strength Low Alloy A588 Steel, Add	12.46	
For Each Additional Top Copes >2, Add	0.35	
For Structural Tees, WT, MT Or ST, Deduct	-17.74	
For Skewed Or Sloped Connections, Add	7.47	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0299	LF		W14 x 99 A992/A36 Structural Beam Or Girder.....	144.66	28.89
			<i>For Hot Dip Galvanizing, Add</i>	31.59	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.93	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.14	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-46.01	
			<i>For Skewed Or Sloped Connections, Add</i>	17.36	
05 12 23 00-0300	LF		W14 x 90 A992/A36 Structural Beam Or Girder.....	134.68	28.38
			<i>For Hot Dip Galvanizing, Add</i>	28.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.12	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.94	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.04	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-42.59	
			<i>For Skewed Or Sloped Connections, Add</i>	16.16	
05 12 23 00-0301	LF		W14 x 82 A992/A36 Structural Beam Or Girder.....	125.78	28.08
			<i>For Hot Dip Galvanizing, Add</i>	26.61	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.32	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.16	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.96	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.54	
			<i>For Skewed Or Sloped Connections, Add</i>	15.09	
05 12 23 00-0302	LF		W14 x 74 A992/A36 Structural Beam Or Girder.....	116.90	27.68
			<i>For Hot Dip Galvanizing, Add</i>	24.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.52	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.38	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.87	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.49	
			<i>For Skewed Or Sloped Connections, Add</i>	14.03	
05 12 23 00-0303	LF		W14 x 68 A992/A36 Structural Beam Or Girder.....	110.27	27.37
			<i>For Hot Dip Galvanizing, Add</i>	22.50	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.92	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.05	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.22	
			<i>For Skewed Or Sloped Connections, Add</i>	13.23	
05 12 23 00-0304	LF		W14 x 61 A992/A36 Structural Beam Or Girder.....	102.56	27.07
			<i>For Hot Dip Galvanizing, Add</i>	20.44	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.51	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.74	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-31.56	
			<i>For Skewed Or Sloped Connections, Add</i>	12.31	
05 12 23 00-0305	LF		W14 x 53 A992/A36 Structural Beam Or Girder.....	93.78	26.66
			<i>For Hot Dip Galvanizing, Add</i>	18.12	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.44	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.76	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.65	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-28.55	
			<i>For Skewed Or Sloped Connections, Add</i>	11.25	
05 12 23 00-0306	LF		W14 x 48 A992/A36 Structural Beam Or Girder.....	88.14	26.36
			<i>For Hot Dip Galvanizing, Add</i>	16.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.93	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.63	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.60	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.62	
			<i>For Skewed Or Sloped Connections, Add</i>	10.58	
05 12 23 00-0307	LF		W14 x 43 A992/A36 Structural Beam Or Girder.....	82.60	26.27
			<i>For Hot Dip Galvanizing, Add</i>	15.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.43	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	16.52	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.55	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-24.71	
			<i>For Skewed Or Sloped Connections, Add</i>	9.91	
05 12 23 00-0308	LF		W14 x 38 A992/A36 Structural Beam Or Girder.....	77.08	26.06
			<i>For Hot Dip Galvanizing, Add</i>	13.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	15.42	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.49	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-22.83	
			<i>For Skewed Or Sloped Connections, Add</i>	9.25	
05 12 23 00-0309	LF		W14 x 34 A992/A36 Structural Beam Or Girder.....	72.63	25.75
			<i>For Hot Dip Galvanizing, Add</i>	12.53	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.54	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	14.53	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.45	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-21.30	
			<i>For Skewed Or Sloped Connections, Add</i>	8.72	
05 12 23 00-0310	LF		W14 x 30 A992/A36 Structural Beam Or Girder.....	68.17	25.66
			<i>For Hot Dip Galvanizing, Add</i>	11.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.14	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	13.63	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.41	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-19.77	
			<i>For Skewed Or Sloped Connections, Add</i>	8.18	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0311 LF W14 x 26 A992/A36 Structural Beam Or Girder.....	63.72	25.36
For Hot Dip Galvanizing, Add	10.17	
For High Strength Low Alloy A572-50 Steel, Add	5.73	
For High Strength Low Alloy A588 Steel, Add	12.74	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-18.24	
For Skewed Or Sloped Connections, Add	7.65	
05 12 23 00-0312 LF W14 x 22 A992/A36 Structural Beam Or Girder.....	59.40	25.25
For Hot Dip Galvanizing, Add	9.03	
For High Strength Low Alloy A572-50 Steel, Add	5.35	
For High Strength Low Alloy A588 Steel, Add	11.88	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-16.76	
For Skewed Or Sloped Connections, Add	7.13	
05 12 23 00-0313 LF W12 x 87 A992/A36 Structural Beam Or Girder.....	131.42	28.28
For Hot Dip Galvanizing, Add	28.09	
For High Strength Low Alloy A572-50 Steel, Add	11.83	
For High Strength Low Alloy A588 Steel, Add	26.28	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-41.47	
For Skewed Or Sloped Connections, Add	15.77	
05 12 23 00-0314 LF W12 x 79 A992/A36 Structural Beam Or Girder.....	122.53	27.88
For Hot Dip Galvanizing, Add	25.73	
For High Strength Low Alloy A572-50 Steel, Add	11.03	
For High Strength Low Alloy A588 Steel, Add	24.51	
For Each Additional Top Copes >2, Add	0.93	
For Structural Tees, WT, MT Or ST, Deduct	-38.42	
For Skewed Or Sloped Connections, Add	14.70	
05 12 23 00-0315 LF W12 x 72 A992/A36 Structural Beam Or Girder.....	114.71	27.57
For Hot Dip Galvanizing, Add	23.68	
For High Strength Low Alloy A572-50 Steel, Add	10.32	
For High Strength Low Alloy A588 Steel, Add	22.94	
For Each Additional Top Copes >2, Add	0.85	
For Structural Tees, WT, MT Or ST, Deduct	-35.74	
For Skewed Or Sloped Connections, Add	13.77	
05 12 23 00-0316 LF W12 x 65 A992/A36 Structural Beam Or Girder.....	107.01	27.27
For Hot Dip Galvanizing, Add	21.62	
For High Strength Low Alloy A572-50 Steel, Add	9.63	
For High Strength Low Alloy A588 Steel, Add	21.40	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-33.09	
For Skewed Or Sloped Connections, Add	12.84	
05 12 23 00-0317 LF W12 x 58 A992/A36 Structural Beam Or Girder.....	99.20	26.87
For Hot Dip Galvanizing, Add	19.57	
For High Strength Low Alloy A572-50 Steel, Add	8.93	
For High Strength Low Alloy A588 Steel, Add	19.84	
For Each Additional Top Copes >2, Add	0.71	
For Structural Tees, WT, MT Or ST, Deduct	-30.42	
For Skewed Or Sloped Connections, Add	11.90	
05 12 23 00-0318 LF W12 x 53 A992/A36 Structural Beam Or Girder.....	93.78	26.66
For Hot Dip Galvanizing, Add	18.12	
For High Strength Low Alloy A572-50 Steel, Add	8.44	
For High Strength Low Alloy A588 Steel, Add	18.76	
For Each Additional Top Copes >2, Add	0.65	
For Structural Tees, WT, MT Or ST, Deduct	-28.55	
For Skewed Or Sloped Connections, Add	11.25	
05 12 23 00-0319 LF W12 x 50 A992/A36 Structural Beam Or Girder.....	90.30	26.57
For Hot Dip Galvanizing, Add	17.21	
For High Strength Low Alloy A572-50 Steel, Add	8.13	
For High Strength Low Alloy A588 Steel, Add	18.06	
For Each Additional Top Copes >2, Add	0.62	
For Structural Tees, WT, MT Or ST, Deduct	-27.36	
For Skewed Or Sloped Connections, Add	10.84	
05 12 23 00-0320 LF W12 x 45 A992/A36 Structural Beam Or Girder.....	84.88	26.36
For Hot Dip Galvanizing, Add	15.76	
For High Strength Low Alloy A572-50 Steel, Add	7.64	
For High Strength Low Alloy A588 Steel, Add	16.98	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-25.50	
For Skewed Or Sloped Connections, Add	10.19	
05 12 23 00-0321 LF W12 x 40 A992/A36 Structural Beam Or Girder.....	72.37	19.59
For Hot Dip Galvanizing, Add	14.28	
For High Strength Low Alloy A572-50 Steel, Add	6.51	
For High Strength Low Alloy A588 Steel, Add	14.47	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-22.19	
For Skewed Or Sloped Connections, Add	8.68	
05 12 23 00-0322 LF W12 x 35 A992/A36 Structural Beam Or Girder.....	66.95	19.50
For Hot Dip Galvanizing, Add	12.83	
For High Strength Low Alloy A572-50 Steel, Add	6.03	
For High Strength Low Alloy A588 Steel, Add	13.39	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.33	
For Skewed Or Sloped Connections, Add	8.03	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0323 LF W12 x 30 A992/A36 Structural Beam Or Girder.....	61.31	19.19
For Hot Dip Galvanizing, Add	11.35	
For High Strength Low Alloy A572-50 Steel, Add	5.52	
For High Strength Low Alloy A588 Steel, Add	12.26	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-18.40	
For Skewed Or Sloped Connections, Add	7.36	
05 12 23 00-0324 LF W12 x 26 A992/A36 Structural Beam Or Girder.....	56.85	18.99
For Hot Dip Galvanizing, Add	10.17	
For High Strength Low Alloy A572-50 Steel, Add	5.12	
For High Strength Low Alloy A588 Steel, Add	11.37	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-16.87	
For Skewed Or Sloped Connections, Add	6.82	
05 12 23 00-0325 LF W12 x 22 A992/A36 Structural Beam Or Girder.....	52.53	18.79
For Hot Dip Galvanizing, Add	9.03	
For High Strength Low Alloy A572-50 Steel, Add	4.73	
For High Strength Low Alloy A588 Steel, Add	10.51	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-15.39	
For Skewed Or Sloped Connections, Add	6.30	
05 12 23 00-0326 LF W12 x 19 A992/A36 Structural Beam Or Girder.....	49.15	18.68
For Hot Dip Galvanizing, Add	8.12	
For High Strength Low Alloy A572-50 Steel, Add	4.42	
For High Strength Low Alloy A588 Steel, Add	9.83	
For Each Additional Top Copes >2, Add	0.29	
For Structural Tees, WT, MT Or ST, Deduct	-14.22	
For Skewed Or Sloped Connections, Add	5.90	
05 12 23 00-0327 LF W12 x 16 A992/A36 Structural Beam Or Girder.....	45.80	18.38
For Hot Dip Galvanizing, Add	7.24	
For High Strength Low Alloy A572-50 Steel, Add	4.12	
For High Strength Low Alloy A588 Steel, Add	9.16	
For Each Additional Top Copes >2, Add	0.26	
For Structural Tees, WT, MT Or ST, Deduct	-13.08	
For Skewed Or Sloped Connections, Add	5.50	
05 12 23 00-0328 LF W12 x 14 A992/A36 Structural Beam Or Girder.....	43.62	18.38
For Hot Dip Galvanizing, Add	6.67	
For High Strength Low Alloy A572-50 Steel, Add	3.93	
For High Strength Low Alloy A588 Steel, Add	8.72	
For Each Additional Top Copes >2, Add	0.24	
For Structural Tees, WT, MT Or ST, Deduct	-12.33	
For Skewed Or Sloped Connections, Add	5.23	
05 12 23 00-0329 LF W10 x 68 A992/A36 Structural Beam Or Girder.....	103.75	21.11
For Hot Dip Galvanizing, Add	22.57	
For High Strength Low Alloy A572-50 Steel, Add	9.34	
For High Strength Low Alloy A588 Steel, Add	20.75	
For Each Additional Top Copes >2, Add	0.81	
For Structural Tees, WT, MT Or ST, Deduct	-32.95	
For Skewed Or Sloped Connections, Add	12.45	
05 12 23 00-0330 LF W10 x 60 A992/A36 Structural Beam Or Girder.....	94.96	20.71
For Hot Dip Galvanizing, Add	20.24	
For High Strength Low Alloy A572-50 Steel, Add	8.55	
For High Strength Low Alloy A588 Steel, Add	18.99	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-29.93	
For Skewed Or Sloped Connections, Add	11.40	
05 12 23 00-0331 LF W10 x 54 A992/A36 Structural Beam Or Girder.....	88.23	20.30
For Hot Dip Galvanizing, Add	18.46	
For High Strength Low Alloy A572-50 Steel, Add	7.94	
For High Strength Low Alloy A588 Steel, Add	17.65	
For Each Additional Top Copes >2, Add	0.67	
For Structural Tees, WT, MT Or ST, Deduct	-27.62	
For Skewed Or Sloped Connections, Add	10.59	
05 12 23 00-0332 LF W10 x 49 A992/A36 Structural Beam Or Girder.....	82.70	20.10
For Hot Dip Galvanizing, Add	17.01	
For High Strength Low Alloy A572-50 Steel, Add	7.44	
For High Strength Low Alloy A588 Steel, Add	16.54	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-25.73	
For Skewed Or Sloped Connections, Add	9.92	
05 12 23 00-0333 LF W10 x 45 A992/A36 Structural Beam Or Girder.....	78.26	20.00
For Hot Dip Galvanizing, Add	15.83	
For High Strength Low Alloy A572-50 Steel, Add	7.04	
For High Strength Low Alloy A588 Steel, Add	15.65	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-24.21	
For Skewed Or Sloped Connections, Add	9.39	
05 12 23 00-0334 LF W10 x 39 A992/A36 Structural Beam Or Girder.....	71.64	19.59
For Hot Dip Galvanizing, Add	14.08	
For High Strength Low Alloy A572-50 Steel, Add	6.45	
For High Strength Low Alloy A588 Steel, Add	14.33	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-21.94	
For Skewed Or Sloped Connections, Add	8.60	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0335 LF W10 x 33 A992/A36 Structural Beam Or Girder.....	65.03	19.29
For Hot Dip Galvanizing, Add	12.33	
For High Strength Low Alloy A572-50 Steel, Add	5.85	
For High Strength Low Alloy A588 Steel, Add	13.01	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-19.67	
For Skewed Or Sloped Connections, Add	7.80	
05 12 23 00-0336 LF W10 x 30 A992/A36 Structural Beam Or Girder.....	61.65	19.19
For Hot Dip Galvanizing, Add	11.42	
For High Strength Low Alloy A572-50 Steel, Add	5.55	
For High Strength Low Alloy A588 Steel, Add	12.33	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-18.50	
For Skewed Or Sloped Connections, Add	7.40	
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder.....	57.32	19.09
For Hot Dip Galvanizing, Add	10.27	
For High Strength Low Alloy A572-50 Steel, Add	5.16	
For High Strength Low Alloy A588 Steel, Add	11.46	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-17.02	
For Skewed Or Sloped Connections, Add	6.88	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder.....	52.77	18.79
For Hot Dip Galvanizing, Add	9.09	
For High Strength Low Alloy A572-50 Steel, Add	4.75	
For High Strength Low Alloy A588 Steel, Add	10.55	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-15.47	
For Skewed Or Sloped Connections, Add	6.33	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder.....	49.51	18.68
For Hot Dip Galvanizing, Add	8.22	
For High Strength Low Alloy A572-50 Steel, Add	4.46	
For High Strength Low Alloy A588 Steel, Add	9.90	
For Each Additional Top Copes >2, Add	0.30	
For Structural Tees, WT, MT Or ST, Deduct	-14.34	
For Skewed Or Sloped Connections, Add	5.94	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder.....	47.23	18.59
For Hot Dip Galvanizing, Add	7.61	
For High Strength Low Alloy A572-50 Steel, Add	4.25	
For High Strength Low Alloy A588 Steel, Add	9.45	
For Each Additional Top Copes >2, Add	0.27	
For Structural Tees, WT, MT Or ST, Deduct	-13.56	
For Skewed Or Sloped Connections, Add	5.67	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder.....	45.07	18.38
For Hot Dip Galvanizing, Add	7.04	
For High Strength Low Alloy A572-50 Steel, Add	4.06	
For High Strength Low Alloy A588 Steel, Add	9.01	
For Each Additional Top Copes >2, Add	0.25	
For Structural Tees, WT, MT Or ST, Deduct	-12.82	
For Skewed Or Sloped Connections, Add	5.41	
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder.....	41.80	18.38
For Hot Dip Galvanizing, Add	6.16	
For High Strength Low Alloy A572-50 Steel, Add	3.76	
For High Strength Low Alloy A588 Steel, Add	8.36	
For Each Additional Top Copes >2, Add	0.22	
For Structural Tees, WT, MT Or ST, Deduct	-11.69	
For Skewed Or Sloped Connections, Add	5.02	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder.....	67.20	19.50
For Hot Dip Galvanizing, Add	12.90	
For High Strength Low Alloy A572-50 Steel, Add	6.05	
For High Strength Low Alloy A588 Steel, Add	13.44	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.41	
For Skewed Or Sloped Connections, Add	8.06	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder.....	62.74	19.19
For Hot Dip Galvanizing, Add	11.72	
For High Strength Low Alloy A572-50 Steel, Add	5.65	
For High Strength Low Alloy A588 Steel, Add	12.55	
For Each Additional Top Copes >2, Add	0.42	
For Structural Tees, WT, MT Or ST, Deduct	-18.88	
For Skewed Or Sloped Connections, Add	7.53	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder.....	58.37	18.08
For Hot Dip Galvanizing, Add	10.84	
For High Strength Low Alloy A572-50 Steel, Add	5.25	
For High Strength Low Alloy A588 Steel, Add	11.67	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-17.54	
For Skewed Or Sloped Connections, Add	7.00	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder.....	53.29	16.97
For Hot Dip Galvanizing, Add	9.77	
For High Strength Low Alloy A572-50 Steel, Add	4.80	
For High Strength Low Alloy A588 Steel, Add	10.66	
For Each Additional Top Copes >2, Add	0.35	
For Structural Tees, WT, MT Or ST, Deduct	-15.94	
For Skewed Or Sloped Connections, Add	6.39	





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0347	LF		W8 x 21 A992/A36 Structural Beam Or Girder..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	49.60 9.08 4.46 9.92 0.33 -14.83 5.95	15.75
05 12 23 00-0348	LF		W8 x 18 A992/A36 Structural Beam Or Girder..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	43.53 7.73 3.92 8.71 0.28 -12.89 5.22	14.64
05 12 23 00-0349	LF		W8 x 10 A992/A36 Structural Beam Or Girder..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	25.99 4.13 2.34 5.20 0.15 -7.43 3.12	10.50
05 12 23 00-0350	LF		W6 x 9 A992/A36 Structural Beam Or Girder..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	23.78 4.08 2.14 4.76 0.15 -6.96 2.85	8.59
<b>05 12 23 00-0351</b>			<b>A992/A36 Structural Steel, M Shapes</b> (05 12 23 00-0133) Note: Includes material delivery and erection.		
05 12 23 00-0352	LF		M14 x 18 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.80 9.38 4.39 9.76	14.09
05 12 23 00-0353	LF		M12 x 11.8 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.43 6.15 3.19 7.09	12.46
05 12 23 00-0354	LF		M10 x 9 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	27.55 4.69 2.48 5.51	10.00
05 12 23 00-0355	LF		M8 x 6.5 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.90 3.39 1.79 3.98	7.22
05 12 23 00-0356	LF		M6 x 20 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.72 10.42 4.92 10.94	16.27
05 12 23 00-0357	LF		M6 x 4.4 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	13.46 2.29 1.21 2.69	4.89
05 12 23 00-0358	LF		M5 x 18.9 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.79 9.83 4.75 10.56	16.27
05 12 23 00-0359	LF		M4 x 13 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.67 7.41 3.93 8.73	15.96
<b>05 12 23 00-0360</b>			<b>A992/A36 Structural Steel, S Shapes</b> (05 12 23 00-0133) Note: Includes material delivery and erection.		
05 12 23 00-0361	LF		S24 x 121 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	291.22 59.71 26.21 58.24	71.34
05 12 23 00-0362	LF		S24 x 106 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	258.63 52.31 23.28 51.73	65.79
05 12 23 00-0363	LF		S24 x 100 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	247.47 49.35 22.27 49.49	65.33
05 12 23 00-0364	LF		S24 x 90 A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	226.03 44.41 20.34 45.21	61.90

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0365	LF		S24 x 80 A992/A36 Structural Steel.....	203.99	57.91
			For Hot Dip Galvanizing, Add	39.48	
			For High Strength Low Alloy A572-50 Steel, Add	18.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	40.80	
05 12 23 00-0366	LF		S20 x 96 A992/A36 Structural Steel.....	237.58	62.71
			For Hot Dip Galvanizing, Add	47.37	
			For High Strength Low Alloy A572-50 Steel, Add	21.38	
			For High Strength Low Alloy A588 Grade B Steel, Add	47.52	
05 12 23 00-0367	LF		S20 x 86 A992/A36 Structural Steel.....	215.98	59.14
			For Hot Dip Galvanizing, Add	42.44	
			For High Strength Low Alloy A572-50 Steel, Add	19.44	
			For High Strength Low Alloy A588 Grade B Steel, Add	43.20	
05 12 23 00-0368	LF		S20 x 75 A992/A36 Structural Steel.....	191.25	54.29
			For Hot Dip Galvanizing, Add	37.01	
			For High Strength Low Alloy A572-50 Steel, Add	17.21	
			For High Strength Low Alloy A588 Grade B Steel, Add	38.25	
05 12 23 00-0369	LF		S20 x 66 A992/A36 Structural Steel.....	170.98	50.29
			For Hot Dip Galvanizing, Add	32.57	
			For High Strength Low Alloy A572-50 Steel, Add	15.39	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.20	
05 12 23 00-0370	LF		S18 x 70 A992/A36 Structural Steel.....	181.35	53.34
			For Hot Dip Galvanizing, Add	34.54	
			For High Strength Low Alloy A572-50 Steel, Add	16.32	
			For High Strength Low Alloy A588 Grade B Steel, Add	36.27	
05 12 23 00-0371	LF		S18 x 54.7 A992/A36 Structural Steel.....	144.04	43.88
			For Hot Dip Galvanizing, Add	26.99	
			For High Strength Low Alloy A572-50 Steel, Add	12.96	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.81	
05 12 23 00-0372	LF		S15 x 50 A992/A36 Structural Steel.....	133.92	42.22
			For Hot Dip Galvanizing, Add	24.67	
			For High Strength Low Alloy A572-50 Steel, Add	12.05	
			For High Strength Low Alloy A588 Grade B Steel, Add	26.78	
05 12 23 00-0373	LF		S15 x 42.9 A992/A36 Structural Steel.....	116.94	38.12
			For Hot Dip Galvanizing, Add	21.17	
			For High Strength Low Alloy A572-50 Steel, Add	10.52	
			For High Strength Low Alloy A588 Grade B Steel, Add	23.39	
05 12 23 00-0374	LF		S12 x 50 A992/A36 Structural Steel.....	131.66	40.10
			For Hot Dip Galvanizing, Add	24.67	
			For High Strength Low Alloy A572-50 Steel, Add	11.85	
			For High Strength Low Alloy A588 Grade B Steel, Add	26.33	
05 12 23 00-0375	LF		S12 x 40.8 A992/A36 Structural Steel.....	109.27	34.45
			For Hot Dip Galvanizing, Add	20.13	
			For High Strength Low Alloy A572-50 Steel, Add	9.83	
			For High Strength Low Alloy A588 Grade B Steel, Add	21.85	
05 12 23 00-0376	LF		S12 x 35 A992/A36 Structural Steel.....	95.40	31.11
			For Hot Dip Galvanizing, Add	17.27	
			For High Strength Low Alloy A572-50 Steel, Add	8.59	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.08	
05 12 23 00-0377	LF		S12 x 31.8 A992/A36 Structural Steel.....	88.27	29.75
			For Hot Dip Galvanizing, Add	15.69	
			For High Strength Low Alloy A572-50 Steel, Add	7.94	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.65	
05 12 23 00-0378	LF		S10 x 35 A992/A36 Structural Steel.....	97.15	32.75
			For Hot Dip Galvanizing, Add	17.27	
			For High Strength Low Alloy A572-50 Steel, Add	8.74	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.43	
05 12 23 00-0379	LF		S10 x 25.4 A992/A36 Structural Steel.....	71.84	25.01
			For Hot Dip Galvanizing, Add	12.53	
			For High Strength Low Alloy A572-50 Steel, Add	6.47	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.37	
05 12 23 00-0380	LF		S8 x 23 A992/A36 Structural Steel.....	65.05	22.65
			For Hot Dip Galvanizing, Add	11.35	
			For High Strength Low Alloy A572-50 Steel, Add	5.85	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.01	
05 12 23 00-0381	LF		S8 x 18.4 A992/A36 Structural Steel.....	53.05	19.08
			For Hot Dip Galvanizing, Add	9.08	
			For High Strength Low Alloy A572-50 Steel, Add	4.77	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.61	
05 12 23 00-0382	LF		S7 x 20 A992/A36 Structural Steel.....	57.66	20.74
			For Hot Dip Galvanizing, Add	9.87	
			For High Strength Low Alloy A572-50 Steel, Add	5.19	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.53	
05 12 23 00-0383	LF		S7 x 15.3 A992/A36 Structural Steel.....	45.01	16.70
			For Hot Dip Galvanizing, Add	7.55	
			For High Strength Low Alloy A572-50 Steel, Add	4.05	
			For High Strength Low Alloy A588 Grade B Steel, Add	9.00	
05 12 23 00-0384	LF		S6 x 17.25 A992/A36 Structural Steel.....	48.86	17.06
			For Hot Dip Galvanizing, Add	8.51	
			For High Strength Low Alloy A572-50 Steel, Add	4.40	
			For High Strength Low Alloy A588 Grade B Steel, Add	9.77	
05 12 23 00-0385	LF		S6 x 12.5 A992/A36 Structural Steel.....	42.03	15.75
			For Hot Dip Galvanizing, Add	6.98	
			For High Strength Low Alloy A572-50 Steel, Add	3.78	
			For High Strength Low Alloy A588 Grade B Steel, Add	8.41	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0386	LF	S5 x 14.75	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.65 7.65 4.02 8.93	16.06
05 12 23 00-0387	LF	S5 x 10	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	38.18 5.94 3.44 7.64	15.66
05 12 23 00-0388	LF	S4 x 9.5	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.18 5.66 3.35 7.44	15.66
05 12 23 00-0389	LF	S4 x 7.7	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.87 5.05 3.14 6.97	15.66
05 12 23 00-0390	LF	S3 x 7.5	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.65 4.99 3.12 6.93	15.66
05 12 23 00-0391	LF	S3 x 5.7	A992/A36 Structural Steel..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.91 4.26 2.87 6.38	15.55
<b>05 12 23 00-0392</b>			<b>A992/A36 Structural Steel, HP Shapes</b> (05 12 23 00-0133) Note: Includes material delivery and erection.		
05 12 23 00-0393	LF	HP14 x 117	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	175.35 42.41 15.78 35.07	21.14
05 12 23 00-0394	LF	HP14 x 102	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	153.64 36.82 13.83 30.73	19.67
05 12 23 00-0395	LF	HP14 x 89	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	137.05 32.57 12.33 27.41	18.45
05 12 23 00-0396	LF	HP14 x 73	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	113.84 26.45 10.25 22.77	17.39
05 12 23 00-0397	LF	HP13 x 100	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	150.63 36.10 13.56 30.13	19.29
05 12 23 00-0398	LF	HP13 x 87	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	133.98 31.84 12.06 26.80	18.04
05 12 23 00-0399	LF	HP13 x 73	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	113.84 26.45 10.25 22.77	17.39
05 12 23 00-0400	LF	HP13 x 60	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.79 21.93 8.71 19.36	16.66
05 12 23 00-0401	LF	HP12 x 84	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	126.74 29.55 11.41 25.35	19.02
05 12 23 00-0402	LF	HP12 x 74	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	112.18 25.82 10.10 22.44	17.94
05 12 23 00-0403	LF	HP12 x 63	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.76 21.97 8.71 19.35	16.50
05 12 23 00-0404	LF	HP12 x 53	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.82 20.01 7.99 17.76	15.69
05 12 23 00-0405	LF	HP10 x 57	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	93.48 21.18 8.41 18.70	16.10
05 12 23 00-0406	LF	HP10 x 42	A992/A36 Structural Steel ..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	77.38 17.01 6.96 15.48	15.08

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 12 23 00-0407	LF	HP8 x 36 A992/A36 Structural Steel .....		67.47	14.23
		<i>For Hot Dip Galvanizing, Add</i>		14.52	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.07	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		13.49	
05 12 23 00-0408		<b>Lightweight Framing Steel Shapes</b> <small>(05 12 23)</small>			
		Note: Includes cutting to length. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.			
05 12 23 00-0409		<b>Angle Iron - L</b> <small>(05 12 23 00-0408)</small>			
05 12 23 00-0410		<b>1/8" Thick</b> <small>(05 12 23 00-0409)</small>			
05 12 23 00-0411	LF	1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron .....		2.37	1.44
		<i>For &gt;100 To 250, Deduct</i>		-0.14	
		<i>For &gt;250 To 500, Deduct</i>		-0.20	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.31	
		<i>For &gt;1,000, Deduct</i>		-0.42	
		<i>For 316 Stainless Steel, Add</i>		1.44	
		<i>For Aluminum, Add</i>		0.08	
		<i>For Galvanized Steel, Add</i>		0.28	
		<i>For 304 Stainless Steel, Add</i>		1.28	
		<i>For High Strength Steel (HSS), Add</i>		0.47	
05 12 23 00-0412	LF	3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron .....		2.75	1.64
		<i>For &gt;100 To 250, Deduct</i>		-0.16	
		<i>For &gt;250 To 500, Deduct</i>		-0.23	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.36	
		<i>For &gt;1,000, Deduct</i>		-0.48	
		<i>For 316 Stainless Steel, Add</i>		1.82	
		<i>For Aluminum, Add</i>		0.10	
		<i>For Galvanized Steel, Add</i>		0.35	
		<i>For 304 Stainless Steel, Add</i>		1.62	
		<i>For High Strength Steel (HSS), Add</i>		0.55	
05 12 23 00-0413	LF	3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron .....		3.10	1.80
		<i>For &gt;100 To 250, Deduct</i>		-0.18	
		<i>For &gt;250 To 500, Deduct</i>		-0.26	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.40	
		<i>For &gt;1,000, Deduct</i>		-0.53	
		<i>For 316 Stainless Steel, Add</i>		2.24	
		<i>For Aluminum, Add</i>		0.13	
		<i>For Galvanized Steel, Add</i>		0.43	
		<i>For 304 Stainless Steel, Add</i>		2.00	
		<i>For High Strength Steel (HSS), Add</i>		0.62	
05 12 23 00-0414	LF	1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron .....		3.49	2.00
		<i>For &gt;100 To 250, Deduct</i>		-0.20	
		<i>For &gt;250 To 500, Deduct</i>		-0.29	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.44	
		<i>For &gt;1,000, Deduct</i>		-0.60	
		<i>For 316 Stainless Steel, Add</i>		2.59	
		<i>For Aluminum, Add</i>		0.15	
		<i>For Galvanized Steel, Add</i>		0.50	
		<i>For 304 Stainless Steel, Add</i>		2.31	
		<i>For High Strength Steel (HSS), Add</i>		0.70	
05 12 23 00-0415	LF	1" x 1" x 1/8" Thick, Plain Steel Angle Iron .....		3.83	2.16
		<i>For &gt;100 To 250, Deduct</i>		-0.22	
		<i>For &gt;250 To 500, Deduct</i>		-0.31	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.48	
		<i>For &gt;1,000, Deduct</i>		-0.65	
		<i>For 316 Stainless Steel, Add</i>		3.01	
		<i>For Aluminum, Add</i>		0.17	
		<i>For Galvanized Steel, Add</i>		0.58	
		<i>For 304 Stainless Steel, Add</i>		2.68	
		<i>For High Strength Steel (HSS), Add</i>		0.77	
05 12 23 00-0416	LF	1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron .....		4.59	2.55
		<i>For &gt;100 To 250, Deduct</i>		-0.26	
		<i>For &gt;250 To 500, Deduct</i>		-0.37	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.57	
		<i>For &gt;1,000, Deduct</i>		-0.77	
		<i>For 316 Stainless Steel, Add</i>		3.81	
		<i>For Aluminum, Add</i>		0.21	
		<i>For Galvanized Steel, Add</i>		0.74	
		<i>For 304 Stainless Steel, Add</i>		3.39	
		<i>For High Strength Steel (HSS), Add</i>		0.92	
05 12 23 00-0417	LF	1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron .....		4.59	2.55
		<i>For &gt;100 To 250, Deduct</i>		-0.26	
		<i>For &gt;250 To 500, Deduct</i>		-0.37	
		<i>For &gt;500 To 1,000, Deduct</i>		-0.57	
		<i>For &gt;1,000, Deduct</i>		-0.77	
		<i>For 316 Stainless Steel, Add</i>		3.81	
		<i>For Aluminum, Add</i>		0.21	
		<i>For Galvanized Steel, Add</i>		0.74	
		<i>For 304 Stainless Steel, Add</i>		3.39	
		<i>For High Strength Steel (HSS), Add</i>		0.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0418	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron .....	5.50	3.05
			<i>For &gt;100 To 250, Deduct</i>	-0.30	
			<i>For &gt;250 To 500, Deduct</i>	-0.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
			<i>For &gt;1,000, Deduct</i>	-0.92	
			<i>For 316 Stainless Steel, Add</i>	4.61	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.89	
			<i>For 304 Stainless Steel, Add</i>	4.10	
			<i>For High Strength Steel (HSS), Add</i>	1.10	
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron .....	7.48	4.15
			<i>For &gt;100 To 250, Deduct</i>	-0.41	
			<i>For &gt;250 To 500, Deduct</i>	-0.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.93	
			<i>For &gt;1,000, Deduct</i>	-1.25	
			<i>For 316 Stainless Steel, Add</i>	6.24	
			<i>For Aluminum, Add</i>	0.35	
			<i>For Galvanized Steel, Add</i>	1.21	
			<i>For 304 Stainless Steel, Add</i>	5.56	
			<i>For High Strength Steel (HSS), Add</i>	1.50	
<b>05 12 23 00-0420</b>			<b>3/16" Thick</b> <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron .....	5.34	2.70
			<i>For &gt;100 To 250, Deduct</i>	-0.27	
			<i>For &gt;250 To 500, Deduct</i>	-0.40	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.63	
			<i>For &gt;1,000, Deduct</i>	-0.85	
			<i>For 316 Stainless Steel, Add</i>	5.60	
			<i>For Aluminum, Add</i>	0.32	
			<i>For Galvanized Steel, Add</i>	1.09	
			<i>For 304 Stainless Steel, Add</i>	4.99	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron .....	5.34	2.70
			<i>For &gt;100 To 250, Deduct</i>	-0.27	
			<i>For &gt;250 To 500, Deduct</i>	-0.40	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.63	
			<i>For &gt;1,000, Deduct</i>	-0.85	
			<i>For 316 Stainless Steel, Add</i>	5.60	
			<i>For Aluminum, Add</i>	0.32	
			<i>For Galvanized Steel, Add</i>	1.09	
			<i>For 304 Stainless Steel, Add</i>	4.99	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron .....	5.97	2.89
			<i>For &gt;100 To 250, Deduct</i>	-0.29	
			<i>For &gt;250 To 500, Deduct</i>	-0.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
			<i>For &gt;1,000, Deduct</i>	-0.93	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.19	
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron .....	7.01	3.10
			<i>For &gt;100 To 250, Deduct</i>	-0.31	
			<i>For &gt;250 To 500, Deduct</i>	-0.48	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.76	
			<i>For &gt;1,000, Deduct</i>	-1.04	
			<i>For 316 Stainless Steel, Add</i>	9.25	
			<i>For Aluminum, Add</i>	0.52	
			<i>For Galvanized Steel, Add</i>	1.79	
			<i>For 304 Stainless Steel, Add</i>	8.24	
			<i>For High Strength Steel (HSS), Add</i>	1.40	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron .....	7.67	3.32
			<i>For &gt;100 To 250, Deduct</i>	-0.33	
			<i>For &gt;250 To 500, Deduct</i>	-0.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.83	
			<i>For &gt;1,000, Deduct</i>	-1.13	
			<i>For 316 Stainless Steel, Add</i>	10.40	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.02	
			<i>For 304 Stainless Steel, Add</i>	9.26	
			<i>For High Strength Steel (HSS), Add</i>	1.53	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron .....	8.38	3.55
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.57	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.89	
			<i>For &gt;1,000, Deduct</i>	-1.22	
			<i>For 316 Stainless Steel, Add</i>	11.65	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.26	
			<i>For 304 Stainless Steel, Add</i>	10.37	
			<i>For High Strength Steel (HSS), Add</i>	1.68	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0427	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron.....	8.37	3.55
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.89	
			<i>For &gt;1,000, Deduct</i>	-1.22	
			<i>For 316 Stainless Steel, Add</i>	11.62	
			<i>For Aluminum, Add</i>	0.65	
			<i>For Galvanized Steel, Add</i>	2.25	
			<i>For 304 Stainless Steel, Add</i>	10.35	
			<i>For High Strength Steel (HSS), Add</i>	1.67	
05 12 23 00-0428	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron.....	9.24	3.92
			<i>For &gt;100 To 250, Deduct</i>	-0.39	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.99	
			<i>For &gt;1,000, Deduct</i>	-1.35	
			<i>For 316 Stainless Steel, Add</i>	12.83	
			<i>For Aluminum, Add</i>	0.72	
			<i>For Galvanized Steel, Add</i>	2.49	
			<i>For 304 Stainless Steel, Add</i>	11.43	
			<i>For High Strength Steel (HSS), Add</i>	1.85	
05 12 23 00-0429	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron.....	10.11	4.30
			<i>For &gt;100 To 250, Deduct</i>	-0.43	
			<i>For &gt;250 To 500, Deduct</i>	-0.68	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.08	
			<i>For &gt;1,000, Deduct</i>	-1.47	
			<i>For 316 Stainless Steel, Add</i>	14.05	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.72	
			<i>For 304 Stainless Steel, Add</i>	12.51	
			<i>For High Strength Steel (HSS), Add</i>	2.02	
<b>05 12 23 00-0430</b>			<b>1/4" Thick (05 12 23 00-0409)</b>		
05 12 23 00-0431	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	6.03	2.85
			<i>For &gt;100 To 250, Deduct</i>	-0.28	
			<i>For &gt;250 To 500, Deduct</i>	-0.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
			<i>For &gt;1,000, Deduct</i>	-0.93	
			<i>For 316 Stainless Steel, Add</i>	7.17	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.39	
			<i>For 304 Stainless Steel, Add</i>	6.38	
			<i>For High Strength Steel (HSS), Add</i>	1.21	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	6.80	3.05
			<i>For &gt;100 To 250, Deduct</i>	-0.30	
			<i>For &gt;250 To 500, Deduct</i>	-0.47	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.75	
			<i>For &gt;1,000, Deduct</i>	-1.02	
			<i>For 316 Stainless Steel, Add</i>	8.77	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.70	
			<i>For 304 Stainless Steel, Add</i>	7.81	
			<i>For High Strength Steel (HSS), Add</i>	1.36	
05 12 23 00-0433	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	8.10	3.25
			<i>For &gt;100 To 250, Deduct</i>	-0.32	
			<i>For &gt;250 To 500, Deduct</i>	-0.53	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.84	
			<i>For &gt;1,000, Deduct</i>	-1.15	
			<i>For 316 Stainless Steel, Add</i>	12.06	
			<i>For Aluminum, Add</i>	0.68	
			<i>For Galvanized Steel, Add</i>	2.34	
			<i>For 304 Stainless Steel, Add</i>	10.74	
			<i>For High Strength Steel (HSS), Add</i>	1.62	
05 12 23 00-0434	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	9.08	3.60
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.59	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.93	
			<i>For &gt;1,000, Deduct</i>	-1.28	
			<i>For 316 Stainless Steel, Add</i>	13.70	
			<i>For Aluminum, Add</i>	0.77	
			<i>For Galvanized Steel, Add</i>	2.65	
			<i>For 304 Stainless Steel, Add</i>	12.20	
			<i>For High Strength Steel (HSS), Add</i>	1.82	
05 12 23 00-0435	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	10.10	3.94
			<i>For &gt;100 To 250, Deduct</i>	-0.39	
			<i>For &gt;250 To 500, Deduct</i>	-0.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.03	
			<i>For &gt;1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	15.49	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.00	
			<i>For 304 Stainless Steel, Add</i>	13.79	
			<i>For High Strength Steel (HSS), Add</i>	2.02	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0436	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	10.10	3.94
			<i>For &gt;100 To 250, Deduct</i>	-0.39	
			<i>For &gt;250 To 500, Deduct</i>	-0.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.03	
			<i>For &gt;1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	15.49	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.00	
			<i>For 304 Stainless Steel, Add</i>	13.79	
			<i>For High Strength Steel (HSS), Add</i>	2.02	
05 12 23 00-0437	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	11.16	4.38
			<i>For &gt;100 To 250, Deduct</i>	-0.44	
			<i>For &gt;250 To 500, Deduct</i>	-0.72	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.14	
			<i>For &gt;1,000, Deduct</i>	-1.57	
			<i>For 316 Stainless Steel, Add</i>	17.02	
			<i>For Aluminum, Add</i>	0.96	
			<i>For Galvanized Steel, Add</i>	3.30	
			<i>For 304 Stainless Steel, Add</i>	15.16	
			<i>For High Strength Steel (HSS), Add</i>	2.23	
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	12.20	4.81
			<i>For &gt;100 To 250, Deduct</i>	-0.48	
			<i>For &gt;250 To 500, Deduct</i>	-0.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.25	
			<i>For &gt;1,000, Deduct</i>	-1.72	
			<i>For 316 Stainless Steel, Add</i>	18.50	
			<i>For Aluminum, Add</i>	1.04	
			<i>For Galvanized Steel, Add</i>	3.58	
			<i>For 304 Stainless Steel, Add</i>	16.47	
			<i>For High Strength Steel (HSS), Add</i>	2.44	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	13.26	5.17
			<i>For &gt;100 To 250, Deduct</i>	-0.52	
			<i>For &gt;250 To 500, Deduct</i>	-0.85	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.35	
			<i>For &gt;1,000, Deduct</i>	-1.86	
			<i>For 316 Stainless Steel, Add</i>	20.38	
			<i>For Aluminum, Add</i>	1.15	
			<i>For Galvanized Steel, Add</i>	3.95	
			<i>For 304 Stainless Steel, Add</i>	18.15	
			<i>For High Strength Steel (HSS), Add</i>	2.65	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	14.06	0.54
			<i>For &gt;100 To 250, Deduct</i>	-0.54	
			<i>For &gt;250 To 500, Deduct</i>	-0.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.42	
			<i>For &gt;1,000, Deduct</i>	-1.95	
			<i>For 316 Stainless Steel, Add</i>	21.95	
			<i>For Aluminum, Add</i>	1.23	
			<i>For Galvanized Steel, Add</i>	4.25	
			<i>For 304 Stainless Steel, Add</i>	19.55	
			<i>For High Strength Steel (HSS), Add</i>	2.81	
05 12 23 00-0441	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.06	5.40
			<i>For &gt;100 To 250, Deduct</i>	-0.54	
			<i>For &gt;250 To 500, Deduct</i>	-0.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.42	
			<i>For &gt;1,000, Deduct</i>	-1.95	
			<i>For 316 Stainless Steel, Add</i>	21.95	
			<i>For Aluminum, Add</i>	1.23	
			<i>For Galvanized Steel, Add</i>	4.25	
			<i>For 304 Stainless Steel, Add</i>	19.55	
			<i>For High Strength Steel (HSS), Add</i>	2.81	
05 12 23 00-0442	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	14.83	5.63
			<i>For &gt;100 To 250, Deduct</i>	-0.56	
			<i>For &gt;250 To 500, Deduct</i>	-0.93	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.49	
			<i>For &gt;1,000, Deduct</i>	-2.05	
			<i>For 316 Stainless Steel, Add</i>	23.42	
			<i>For Aluminum, Add</i>	1.32	
			<i>For Galvanized Steel, Add</i>	4.54	
			<i>For 304 Stainless Steel, Add</i>	20.86	
			<i>For High Strength Steel (HSS), Add</i>	2.97	
05 12 23 00-0443	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	15.64	5.87
			<i>For &gt;100 To 250, Deduct</i>	-0.59	
			<i>For &gt;250 To 500, Deduct</i>	-0.98	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.57	
			<i>For &gt;1,000, Deduct</i>	-2.15	
			<i>For 316 Stainless Steel, Add</i>	24.99	
			<i>For Aluminum, Add</i>	1.41	
			<i>For Galvanized Steel, Add</i>	4.84	
			<i>For 304 Stainless Steel, Add</i>	22.26	
			<i>For High Strength Steel (HSS), Add</i>	3.13	

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0444 LF 5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	15.64	5.87
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.57	
For >1,000, Deduct	-2.15	
For 316 Stainless Steel, Add	24.99	
For Aluminum, Add	1.41	
For Galvanized Steel, Add	4.84	
For 304 Stainless Steel, Add	22.26	
For High Strength Steel (HSS), Add	3.13	
05 12 23 00-0445 LF 5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	16.51	6.19
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.65	
For >1,000, Deduct	-2.27	
For 316 Stainless Steel, Add	26.43	
For Aluminum, Add	1.49	
For Galvanized Steel, Add	5.12	
For 304 Stainless Steel, Add	23.54	
For High Strength Steel (HSS), Add	3.30	
<b>05 12 23 00-0446 5/16" Thick</b> <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447 LF 2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	10.89	4.19
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.69	
For >500 To 1,000, Deduct	-1.10	
For >1,000, Deduct	-1.51	
For 316 Stainless Steel, Add	17.02	
For Aluminum, Add	0.96	
For Galvanized Steel, Add	3.30	
For 304 Stainless Steel, Add	15.16	
For High Strength Steel (HSS), Add	2.18	
05 12 23 00-0448 LF 2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	11.84	4.44
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.18	
For >1,000, Deduct	-1.63	
For 316 Stainless Steel, Add	18.94	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.67	
For 304 Stainless Steel, Add	16.87	
For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0449 LF 3" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	11.84	4.44
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.18	
For >1,000, Deduct	-1.63	
For 316 Stainless Steel, Add	18.94	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.67	
For 304 Stainless Steel, Add	16.87	
For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0450 LF 3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	13.11	4.86
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.79	
For 316 Stainless Steel, Add	21.22	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.11	
For 304 Stainless Steel, Add	18.90	
For High Strength Steel (HSS), Add	2.62	
05 12 23 00-0451 LF 3" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	14.26	5.28
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.95	
For 316 Stainless Steel, Add	23.10	
For Aluminum, Add	1.30	
For Galvanized Steel, Add	4.48	
For 304 Stainless Steel, Add	20.58	
For High Strength Steel (HSS), Add	2.85	
05 12 23 00-0452 LF 3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	15.21	5.55
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.50	
For >1,000, Deduct	-2.07	
For 316 Stainless Steel, Add	24.99	
For Aluminum, Add	1.41	
For Galvanized Steel, Add	4.84	
For 304 Stainless Steel, Add	22.26	
For High Strength Steel (HSS), Add	3.04	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0453	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron .....	16.27	5.83
			<i>For &gt;100 To 250, Deduct</i>	-0.58	
			<i>For &gt;250 To 500, Deduct</i>	-0.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.59	
			<i>For &gt;1,000, Deduct</i>	-2.19	
			<i>For 316 Stainless Steel, Add</i>	27.20	
			<i>For Aluminum, Add</i>	1.53	
			<i>For Galvanized Steel, Add</i>	5.27	
			<i>For 304 Stainless Steel, Add</i>	24.23	
			<i>For High Strength Steel (HSS), Add</i>	3.25	
05 12 23 00-0454	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	16.27	5.83
			<i>For &gt;100 To 250, Deduct</i>	-0.58	
			<i>For &gt;250 To 500, Deduct</i>	-0.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.59	
			<i>For &gt;1,000, Deduct</i>	-2.19	
			<i>For 316 Stainless Steel, Add</i>	27.20	
			<i>For Aluminum, Add</i>	1.53	
			<i>For Galvanized Steel, Add</i>	5.27	
			<i>For 304 Stainless Steel, Add</i>	24.23	
			<i>For High Strength Steel (HSS), Add</i>	3.25	
05 12 23 00-0455	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	17.30	6.16
			<i>For &gt;100 To 250, Deduct</i>	-0.62	
			<i>For &gt;250 To 500, Deduct</i>	-1.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.69	
			<i>For &gt;1,000, Deduct</i>	-2.32	
			<i>For 316 Stainless Steel, Add</i>	29.09	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.91	
			<i>For High Strength Steel (HSS), Add</i>	3.46	
05 12 23 00-0456	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron.....	18.28	6.43
			<i>For &gt;100 To 250, Deduct</i>	-0.64	
			<i>For &gt;250 To 500, Deduct</i>	-1.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.77	
			<i>For &gt;1,000, Deduct</i>	-2.44	
			<i>For 316 Stainless Steel, Add</i>	31.04	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.01	
			<i>For 304 Stainless Steel, Add</i>	27.65	
			<i>For High Strength Steel (HSS), Add</i>	3.66	
05 12 23 00-0457	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	18.28	6.43
			<i>For &gt;100 To 250, Deduct</i>	-0.64	
			<i>For &gt;250 To 500, Deduct</i>	-1.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.77	
			<i>For &gt;1,000, Deduct</i>	-2.44	
			<i>For 316 Stainless Steel, Add</i>	31.04	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.01	
			<i>For 304 Stainless Steel, Add</i>	27.65	
			<i>For High Strength Steel (HSS), Add</i>	3.66	
05 12 23 00-0458	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	19.20	6.70
			<i>For &gt;100 To 250, Deduct</i>	-0.67	
			<i>For &gt;250 To 500, Deduct</i>	-1.15	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.85	
			<i>For &gt;1,000, Deduct</i>	-2.56	
			<i>For 316 Stainless Steel, Add</i>	32.86	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.37	
			<i>For 304 Stainless Steel, Add</i>	29.27	
			<i>For High Strength Steel (HSS), Add</i>	3.84	
05 12 23 00-0459	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	21.51	6.98
			<i>For &gt;100 To 250, Deduct</i>	-0.70	
			<i>For &gt;250 To 500, Deduct</i>	-1.24	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.01	
			<i>For &gt;1,000, Deduct</i>	-2.78	
			<i>For 316 Stainless Steel, Add</i>	39.01	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.56	
			<i>For 304 Stainless Steel, Add</i>	34.74	
			<i>For High Strength Steel (HSS), Add</i>	4.30	
05 12 23 00-0460	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	21.27	7.27
			<i>For &gt;100 To 250, Deduct</i>	-0.73	
			<i>For &gt;250 To 500, Deduct</i>	-1.26	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.03	
			<i>For &gt;1,000, Deduct</i>	-2.81	
			<i>For 316 Stainless Steel, Add</i>	37.02	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.97	
			<i>For High Strength Steel (HSS), Add</i>	4.25	

05 12 23 00-0461 3/8" Thick (05 12 23 00-0409)

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0462	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	13.15	4.64
			<i>For &gt;100 To 250, Deduct</i>	-0.46	
			<i>For &gt;250 To 500, Deduct</i>	-0.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.28	
			<i>For &gt;1,000, Deduct</i>	-1.76	
			<i>For 316 Stainless Steel, Add</i>	22.27	
			<i>For Aluminum, Add</i>	1.25	
			<i>For Galvanized Steel, Add</i>	4.32	
			<i>For 304 Stainless Steel, Add</i>	19.84	
			<i>For High Strength Steel (HSS), Add</i>	2.63	
05 12 23 00-0463	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	14.51	5.03
			<i>For &gt;100 To 250, Deduct</i>	-0.50	
			<i>For &gt;250 To 500, Deduct</i>	-0.87	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.40	
			<i>For &gt;1,000, Deduct</i>	-1.93	
			<i>For 316 Stainless Steel, Add</i>	24.99	
			<i>For Aluminum, Add</i>	1.41	
			<i>For Galvanized Steel, Add</i>	4.84	
			<i>For 304 Stainless Steel, Add</i>	22.26	
			<i>For High Strength Steel (HSS), Add</i>	2.90	
05 12 23 00-0464	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	15.71	5.41
			<i>For &gt;100 To 250, Deduct</i>	-0.54	
			<i>For &gt;250 To 500, Deduct</i>	-0.93	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.51	
			<i>For &gt;1,000, Deduct</i>	-2.08	
			<i>For 316 Stainless Steel, Add</i>	27.20	
			<i>For Aluminum, Add</i>	1.53	
			<i>For Galvanized Steel, Add</i>	5.27	
			<i>For 304 Stainless Steel, Add</i>	24.23	
			<i>For High Strength Steel (HSS), Add</i>	3.14	
05 12 23 00-0465	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	16.76	5.56
			<i>For &gt;100 To 250, Deduct</i>	-0.56	
			<i>For &gt;250 To 500, Deduct</i>	-0.97	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.58	
			<i>For &gt;1,000, Deduct</i>	-2.18	
			<i>For 316 Stainless Steel, Add</i>	29.92	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.80	
			<i>For 304 Stainless Steel, Add</i>	26.65	
			<i>For High Strength Steel (HSS), Add</i>	3.35	
05 12 23 00-0466	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	17.85	5.87
			<i>For &gt;100 To 250, Deduct</i>	-0.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
			<i>For &gt;1,000, Deduct</i>	-2.32	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
			<i>For High Strength Steel (HSS), Add</i>	3.57	
05 12 23 00-0467	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	17.85	5.87
			<i>For &gt;100 To 250, Deduct</i>	-0.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
			<i>For &gt;1,000, Deduct</i>	-2.32	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
			<i>For High Strength Steel (HSS), Add</i>	3.57	
05 12 23 00-0468	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	19.26	6.39
			<i>For &gt;100 To 250, Deduct</i>	-0.64	
			<i>For &gt;250 To 500, Deduct</i>	-1.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.82	
			<i>For &gt;1,000, Deduct</i>	-2.51	
			<i>For 316 Stainless Steel, Add</i>	34.37	
			<i>For Aluminum, Add</i>	1.93	
			<i>For Galvanized Steel, Add</i>	6.66	
			<i>For 304 Stainless Steel, Add</i>	30.61	
			<i>For High Strength Steel (HSS), Add</i>	3.85	
05 12 23 00-0469	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	20.34	6.58
			<i>For &gt;100 To 250, Deduct</i>	-0.66	
			<i>For &gt;250 To 500, Deduct</i>	-1.17	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.89	
			<i>For &gt;1,000, Deduct</i>	-2.62	
			<i>For 316 Stainless Steel, Add</i>	37.02	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.97	
			<i>For High Strength Steel (HSS), Add</i>	4.07	





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0470	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	20.69	6.84
			<i>For &gt;100 To 250, Deduct</i>	-0.68	
			<i>For &gt;250 To 500, Deduct</i>	-1.20	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.95	
			<i>For &gt;1,000, Deduct</i>	-2.69	
			<i>For 316 Stainless Steel, Add</i>	37.02	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.97	
			<i>For High Strength Steel (HSS), Add</i>	4.14	
05 12 23 00-0471	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	22.11	7.37
			<i>For &gt;100 To 250, Deduct</i>	-0.74	
			<i>For &gt;250 To 500, Deduct</i>	-1.29	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.09	
			<i>For &gt;1,000, Deduct</i>	-2.89	
			<i>For 316 Stainless Steel, Add</i>	39.30	
			<i>For Aluminum, Add</i>	2.21	
			<i>For Galvanized Steel, Add</i>	7.61	
			<i>For 304 Stainless Steel, Add</i>	35.00	
			<i>For High Strength Steel (HSS), Add</i>	4.42	
05 12 23 00-0472	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	26.01	8.59
			<i>For &gt;100 To 250, Deduct</i>	-0.86	
			<i>For &gt;250 To 500, Deduct</i>	-1.51	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.45	
			<i>For &gt;1,000, Deduct</i>	-3.38	
			<i>For 316 Stainless Steel, Add</i>	46.59	
			<i>For Aluminum, Add</i>	2.62	
			<i>For Galvanized Steel, Add</i>	9.03	
			<i>For 304 Stainless Steel, Add</i>	41.50	
			<i>For High Strength Steel (HSS), Add</i>	5.20	
05 12 23 00-0473	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	24.45	7.99
			<i>For &gt;100 To 250, Deduct</i>	-0.80	
			<i>For &gt;250 To 500, Deduct</i>	-1.41	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.29	
			<i>For &gt;1,000, Deduct</i>	-3.16	
			<i>For 316 Stainless Steel, Add</i>	44.19	
			<i>For Aluminum, Add</i>	2.49	
			<i>For Galvanized Steel, Add</i>	8.56	
			<i>For 304 Stainless Steel, Add</i>	39.36	
			<i>For High Strength Steel (HSS), Add</i>	4.89	
05 12 23 00-0474	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	26.01	8.59
			<i>For &gt;100 To 250, Deduct</i>	-0.86	
			<i>For &gt;250 To 500, Deduct</i>	-1.51	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.45	
			<i>For &gt;1,000, Deduct</i>	-3.38	
			<i>For 316 Stainless Steel, Add</i>	46.59	
			<i>For Aluminum, Add</i>	2.62	
			<i>For Galvanized Steel, Add</i>	9.03	
			<i>For 304 Stainless Steel, Add</i>	41.50	
			<i>For High Strength Steel (HSS), Add</i>	5.20	
05 12 23 00-0475	LF		6" x 6" x 3/8" Thick, Plain Steel Angle Iron.....	31.36	10.31
			<i>For &gt;100 To 250, Deduct</i>	-1.03	
			<i>For &gt;250 To 500, Deduct</i>	-1.81	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.94	
			<i>For &gt;1,000, Deduct</i>	-4.07	
			<i>For 316 Stainless Steel, Add</i>	56.42	
			<i>For Aluminum, Add</i>	3.17	
			<i>For Galvanized Steel, Add</i>	10.93	
			<i>For 304 Stainless Steel, Add</i>	50.25	
			<i>For High Strength Steel (HSS), Add</i>	6.27	
05 12 23 00-0476	LF		7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	28.70	9.45
			<i>For &gt;100 To 250, Deduct</i>	-0.95	
			<i>For &gt;250 To 500, Deduct</i>	-1.66	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.70	
			<i>For &gt;1,000, Deduct</i>	-3.73	
			<i>For 316 Stainless Steel, Add</i>	51.49	
			<i>For Aluminum, Add</i>	2.90	
			<i>For Galvanized Steel, Add</i>	9.98	
			<i>For 304 Stainless Steel, Add</i>	45.86	
			<i>For High Strength Steel (HSS), Add</i>	5.74	
05 12 23 00-0477			<b>1/2" Thick</b> <small>(05 12 23 00-0409)</small>		
05 12 23 00-0478	LF		3" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	18.49	5.53
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.66	
			<i>For &gt;1,000, Deduct</i>	-2.31	
			<i>For 316 Stainless Steel, Add</i>	35.58	
			<i>For Aluminum, Add</i>	2.00	
			<i>For Galvanized Steel, Add</i>	6.89	
			<i>For 304 Stainless Steel, Add</i>	31.69	
			<i>For High Strength Steel (HSS), Add</i>	3.70	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0479	LF		4" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	21.84	6.53
			<i>For &gt;100 To 250, Deduct</i>	-0.65	
			<i>For &gt;250 To 500, Deduct</i>	-1.20	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.96	
			<i>For &gt;1,000, Deduct</i>	-2.73	
			<i>For 316 Stainless Steel, Add</i>	42.02	
			<i>For Aluminum, Add</i>	2.36	
			<i>For Galvanized Steel, Add</i>	8.14	
			<i>For 304 Stainless Steel, Add</i>	37.42	
			<i>For High Strength Steel (HSS), Add</i>	4.37	
05 12 23 00-0480	LF		4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron.....	23.42	7.00
			<i>For &gt;100 To 250, Deduct</i>	-0.70	
			<i>For &gt;250 To 500, Deduct</i>	-1.29	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.11	
			<i>For &gt;1,000, Deduct</i>	-2.92	
			<i>For 316 Stainless Steel, Add</i>	45.06	
			<i>For Aluminum, Add</i>	2.53	
			<i>For Galvanized Steel, Add</i>	8.73	
			<i>For 304 Stainless Steel, Add</i>	40.13	
			<i>For High Strength Steel (HSS), Add</i>	4.68	
05 12 23 00-0481	LF		4" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	25.19	7.54
			<i>For &gt;100 To 250, Deduct</i>	-0.75	
			<i>For &gt;250 To 500, Deduct</i>	-1.38	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.26	
			<i>For &gt;1,000, Deduct</i>	-3.14	
			<i>For 316 Stainless Steel, Add</i>	48.48	
			<i>For Aluminum, Add</i>	2.73	
			<i>For Galvanized Steel, Add</i>	9.39	
			<i>For 304 Stainless Steel, Add</i>	43.18	
			<i>For High Strength Steel (HSS), Add</i>	5.04	
05 12 23 00-0482	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	25.19	7.54
			<i>For &gt;100 To 250, Deduct</i>	-0.75	
			<i>For &gt;250 To 500, Deduct</i>	-1.38	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.26	
			<i>For &gt;1,000, Deduct</i>	-3.14	
			<i>For 316 Stainless Steel, Add</i>	48.48	
			<i>For Aluminum, Add</i>	2.73	
			<i>For Galvanized Steel, Add</i>	9.39	
			<i>For 304 Stainless Steel, Add</i>	43.18	
			<i>For High Strength Steel (HSS), Add</i>	5.04	
05 12 23 00-0483	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron.....	26.75	8.00
			<i>For &gt;100 To 250, Deduct</i>	-0.80	
			<i>For &gt;250 To 500, Deduct</i>	-1.47	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.40	
			<i>For &gt;1,000, Deduct</i>	-3.34	
			<i>For 316 Stainless Steel, Add</i>	51.49	
			<i>For Aluminum, Add</i>	2.90	
			<i>For Galvanized Steel, Add</i>	9.98	
			<i>For 304 Stainless Steel, Add</i>	45.86	
			<i>For High Strength Steel (HSS), Add</i>	5.35	
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	31.88	9.53
			<i>For &gt;100 To 250, Deduct</i>	-0.95	
			<i>For &gt;250 To 500, Deduct</i>	-1.75	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.87	
			<i>For &gt;1,000, Deduct</i>	-3.98	
			<i>For 316 Stainless Steel, Add</i>	61.34	
			<i>For Aluminum, Add</i>	3.45	
			<i>For Galvanized Steel, Add</i>	11.89	
			<i>For 304 Stainless Steel, Add</i>	54.63	
			<i>For High Strength Steel (HSS), Add</i>	6.38	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	31.88	9.53
			<i>For &gt;100 To 250, Deduct</i>	-0.95	
			<i>For &gt;250 To 500, Deduct</i>	-1.75	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.87	
			<i>For &gt;1,000, Deduct</i>	-3.98	
			<i>For 316 Stainless Steel, Add</i>	61.34	
			<i>For Aluminum, Add</i>	3.45	
			<i>For Galvanized Steel, Add</i>	11.89	
			<i>For 304 Stainless Steel, Add</i>	54.63	
			<i>For High Strength Steel (HSS), Add</i>	6.38	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	38.57	11.53
			<i>For &gt;100 To 250, Deduct</i>	-1.15	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.47	
			<i>For &gt;1,000, Deduct</i>	-4.82	
			<i>For 316 Stainless Steel, Add</i>	74.21	
			<i>For Aluminum, Add</i>	4.17	
			<i>For Galvanized Steel, Add</i>	14.38	
			<i>For 304 Stainless Steel, Add</i>	66.09	
			<i>For High Strength Steel (HSS), Add</i>	7.71	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0487 LF 7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	35.22	10.53
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-1.93	
For >500 To 1,000, Deduct	-3.17	
For >1,000, Deduct	-4.40	
For 316 Stainless Steel, Add	67.74	
For Aluminum, Add	3.81	
For Galvanized Steel, Add	13.13	
For 304 Stainless Steel, Add	60.33	
For High Strength Steel (HSS), Add	7.04	
05 12 23 00-0488 LF 8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	38.57	11.53
For >100 To 250, Deduct	-1.15	
For >250 To 500, Deduct	-2.12	
For >500 To 1,000, Deduct	-3.47	
For >1,000, Deduct	-4.82	
For 316 Stainless Steel, Add	74.21	
For Aluminum, Add	4.17	
For Galvanized Steel, Add	14.38	
For 304 Stainless Steel, Add	66.09	
For High Strength Steel (HSS), Add	7.71	
05 12 23 00-0489 LF 8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	45.27	13.53
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.49	
For >500 To 1,000, Deduct	-4.07	
For >1,000, Deduct	-5.65	
For 316 Stainless Steel, Add	87.10	
For Aluminum, Add	4.90	
For Galvanized Steel, Add	16.88	
For 304 Stainless Steel, Add	77.58	
For High Strength Steel (HSS), Add	9.05	
05 12 23 00-0490 LF 8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	51.95	15.53
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-2.85	
For >500 To 1,000, Deduct	-4.67	
For >1,000, Deduct	-6.49	
For 316 Stainless Steel, Add	99.94	
For Aluminum, Add	5.62	
For Galvanized Steel, Add	19.36	
For 304 Stainless Steel, Add	89.01	
For High Strength Steel (HSS), Add	10.39	
<b>05 12 23 00-0491 5/8" Thick</b> <small>(05 12 23 00-0499)</small>		
05 12 23 00-0492 LF 4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	30.09	8.63
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.62	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.70	
For 316 Stainless Steel, Add	59.46	
For Aluminum, Add	3.34	
For Galvanized Steel, Add	11.52	
For High Strength Steel (HSS), Add	6.02	
05 12 23 00-0493 LF 5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron.....	32.19	9.24
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.73	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.95	
For 316 Stainless Steel, Add	63.62	
For Aluminum, Add	3.58	
For Galvanized Steel, Add	12.33	
For High Strength Steel (HSS), Add	6.44	
05 12 23 00-0494 LF 5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....	38.32	11.00
For >100 To 250, Deduct	-1.10	
For >250 To 500, Deduct	-2.06	
For >500 To 1,000, Deduct	-3.38	
For >1,000, Deduct	-4.71	
For 316 Stainless Steel, Add	75.71	
For Aluminum, Add	4.26	
For Galvanized Steel, Add	14.67	
For High Strength Steel (HSS), Add	7.66	
05 12 23 00-0495 LF 6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	38.32	11.00
For >100 To 250, Deduct	-1.10	
For >250 To 500, Deduct	-2.06	
For >500 To 1,000, Deduct	-3.38	
For >1,000, Deduct	-4.71	
For 316 Stainless Steel, Add	75.71	
For Aluminum, Add	4.26	
For Galvanized Steel, Add	14.67	
For High Strength Steel (HSS), Add	7.66	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0496	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	46.39	13.31
			<i>For &gt;100 To 250, Deduct</i>	-1.33	
			<i>For &gt;250 To 500, Deduct</i>	-2.49	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.09	
			<i>For &gt;1,000, Deduct</i>	-5.70	
			<i>For 316 Stainless Steel, Add</i>	91.65	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.76	
			<i>For High Strength Steel (HSS), Add</i>	9.28	
05 12 23 00-0497	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	42.36	12.15
			<i>For &gt;100 To 250, Deduct</i>	-1.22	
			<i>For &gt;250 To 500, Deduct</i>	-2.27	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.74	
			<i>For &gt;1,000, Deduct</i>	-5.20	
			<i>For 316 Stainless Steel, Add</i>	83.68	
			<i>For Aluminum, Add</i>	4.71	
			<i>For Galvanized Steel, Add</i>	16.21	
			<i>For High Strength Steel (HSS), Add</i>	8.47	
05 12 23 00-0498	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	54.62	15.68
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-2.93	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.82	
			<i>For &gt;1,000, Deduct</i>	-6.71	
			<i>For 316 Stainless Steel, Add</i>	107.90	
			<i>For Aluminum, Add</i>	6.07	
			<i>For Galvanized Steel, Add</i>	20.91	
			<i>For High Strength Steel (HSS), Add</i>	10.92	
05 12 23 00-0499	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron.....	62.68	17.98
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 500, Deduct</i>	-3.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.53	
			<i>For &gt;1,000, Deduct</i>	-7.70	
			<i>For 316 Stainless Steel, Add</i>	123.84	
			<i>For Aluminum, Add</i>	6.97	
			<i>For Galvanized Steel, Add</i>	23.99	
			<i>For High Strength Steel (HSS), Add</i>	12.54	
<b>05 12 23 00-0500</b>			<b>3/4" Thick (05 12 23 00-0499)</b>		
05 12 23 00-0501	LF		4" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	34.62	9.54
			<i>For &gt;100 To 250, Deduct</i>	-0.95	
			<i>For &gt;250 To 500, Deduct</i>	-1.82	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.00	
			<i>For &gt;1,000, Deduct</i>	-4.19	
			<i>For 316 Stainless Steel, Add</i>	70.08	
			<i>For Aluminum, Add</i>	3.94	
			<i>For Galvanized Steel, Add</i>	13.58	
			<i>For High Strength Steel (HSS), Add</i>	6.92	
05 12 23 00-0502	LF		5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron.....	37.04	10.21
			<i>For &gt;100 To 250, Deduct</i>	-1.02	
			<i>For &gt;250 To 500, Deduct</i>	-1.95	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.21	
			<i>For &gt;1,000, Deduct</i>	-4.48	
			<i>For 316 Stainless Steel, Add</i>	74.98	
			<i>For Aluminum, Add</i>	4.22	
			<i>For Galvanized Steel, Add</i>	14.53	
			<i>For High Strength Steel (HSS), Add</i>	7.41	
05 12 23 00-0503	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	44.15	12.17
			<i>For &gt;100 To 250, Deduct</i>	-1.22	
			<i>For &gt;250 To 500, Deduct</i>	-2.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.83	
			<i>For &gt;1,000, Deduct</i>	-5.34	
			<i>For 316 Stainless Steel, Add</i>	89.38	
			<i>For Aluminum, Add</i>	5.03	
			<i>For Galvanized Steel, Add</i>	17.32	
			<i>For High Strength Steel (HSS), Add</i>	8.83	
05 12 23 00-0504	LF		6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	44.15	12.17
			<i>For &gt;100 To 250, Deduct</i>	-1.22	
			<i>For &gt;250 To 500, Deduct</i>	-2.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.83	
			<i>For &gt;1,000, Deduct</i>	-5.34	
			<i>For 316 Stainless Steel, Add</i>	89.38	
			<i>For Aluminum, Add</i>	5.03	
			<i>For Galvanized Steel, Add</i>	17.32	
			<i>For High Strength Steel (HSS), Add</i>	8.83	
05 12 23 00-0505	LF		6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	53.69	14.79
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-2.82	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.66	
			<i>For &gt;1,000, Deduct</i>	-6.49	
			<i>For 316 Stainless Steel, Add</i>	108.67	
			<i>For Aluminum, Add</i>	6.11	
			<i>For Galvanized Steel, Add</i>	21.06	
			<i>For High Strength Steel (HSS), Add</i>	10.74	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	49.01	13.51
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.58	
For >500 To 1,000, Deduct	-4.25	
For >1,000, Deduct	-5.93	
For 316 Stainless Steel, Add	99.20	
For Aluminum, Add	5.58	
For Galvanized Steel, Add	19.22	
For High Strength Steel (HSS), Add	9.80	
05 12 23 00-0507 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	53.69	14.79
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-2.82	
For >500 To 1,000, Deduct	-4.66	
For >1,000, Deduct	-6.49	
For 316 Stainless Steel, Add	108.67	
For Aluminum, Add	6.11	
For Galvanized Steel, Add	21.06	
For High Strength Steel (HSS), Add	10.74	
05 12 23 00-0508 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	63.23	17.43
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-3.32	
For >500 To 1,000, Deduct	-5.48	
For >1,000, Deduct	-7.65	
For 316 Stainless Steel, Add	128.00	
For Aluminum, Add	7.20	
For Galvanized Steel, Add	24.80	
For High Strength Steel (HSS), Add	12.65	
05 12 23 00-0509 LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	72.77	20.05
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-3.82	
For >500 To 1,000, Deduct	-6.31	
For >1,000, Deduct	-8.80	
For 316 Stainless Steel, Add	147.30	
For Aluminum, Add	8.29	
For Galvanized Steel, Add	28.54	
For High Strength Steel (HSS), Add	14.55	
<b>05 12 23 00-0510 7/8" Thick</b> <small>(05 12 23 00-0409)</small>		
05 12 23 00-0511 LF 5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	49.63	13.09
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-4.23	
For >1,000, Deduct	-5.90	
For 316 Stainless Steel, Add	102.98	
For Aluminum, Add	5.79	
For Galvanized Steel, Add	19.95	
For High Strength Steel (HSS), Add	9.93	
05 12 23 00-0512 LF 6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	49.63	13.09
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-4.23	
For >1,000, Deduct	-5.90	
For 316 Stainless Steel, Add	102.98	
For Aluminum, Add	5.79	
For Galvanized Steel, Add	19.95	
For High Strength Steel (HSS), Add	9.93	
05 12 23 00-0513 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	60.41	15.93
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-3.10	
For >500 To 1,000, Deduct	-5.14	
For >1,000, Deduct	-7.19	
For 316 Stainless Steel, Add	125.34	
For Aluminum, Add	7.05	
For Galvanized Steel, Add	24.29	
For High Strength Steel (HSS), Add	12.08	
05 12 23 00-0514 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	71.35	18.81
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-3.66	
For >500 To 1,000, Deduct	-6.08	
For >1,000, Deduct	-8.49	
For 316 Stainless Steel, Add	148.06	
For Aluminum, Add	8.33	
For Galvanized Steel, Add	28.69	
For High Strength Steel (HSS), Add	14.27	
05 12 23 00-0515 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	82.11	21.66
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-4.22	
For >500 To 1,000, Deduct	-6.99	
For >1,000, Deduct	-9.77	
For 316 Stainless Steel, Add	170.37	
For Aluminum, Add	9.58	
For Galvanized Steel, Add	33.01	
For High Strength Steel (HSS), Add	16.42	



## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0516	Bar Channel <small>(05 12 23 00-0408)</small>		
05 12 23 00-0517	LF 1" x 1/2" x 1/8" Thick Bar Channel .....4.18		
	For 316 Stainless Steel, Add	4.13	
	For Aluminum, Add	0.23	
	For Galvanized Steel, Add	0.80	
	For 304 Stainless Steel, Add	3.68	
	For High Strength Steel (HSS), Add	0.84	
05 12 23 00-0518	LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel .....4.68		
	For 316 Stainless Steel, Add	4.93	
	For Aluminum, Add	0.28	
	For Galvanized Steel, Add	0.95	
	For 304 Stainless Steel, Add	4.39	
	For High Strength Steel (HSS), Add	0.94	
05 12 23 00-0519	LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel .....5.11		
	For 316 Stainless Steel, Add	5.47	
	For Aluminum, Add	0.31	
	For Galvanized Steel, Add	1.06	
	For 304 Stainless Steel, Add	4.87	
	For High Strength Steel (HSS), Add	1.02	
05 12 23 00-0520	LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel .....5.84		
	For 316 Stainless Steel, Add	5.70	
	For Aluminum, Add	0.32	
	For Galvanized Steel, Add	1.10	
	For 304 Stainless Steel, Add	5.07	
	For High Strength Steel (HSS), Add	1.17	
05 12 23 00-0521	LF 2" x 1/2" x 1/8" Thick Bar Channel .....6.24		
	For 316 Stainless Steel, Add	6.98	
	For Aluminum, Add	0.39	
	For Galvanized Steel, Add	1.35	
	For 304 Stainless Steel, Add	6.21	
05 12 23 00-0522	LF 2" x 1" x 1/8" Thick Bar Channel .....8.25		
	For 316 Stainless Steel, Add	7.78	
	For Aluminum, Add	0.44	
	For Galvanized Steel, Add	1.51	
	For 304 Stainless Steel, Add	6.93	
05 12 23 00-0523	Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524	LF C2 x 1.78 - 2" Wide Channel .....6.85		3.58
	For >100 To 250, Deduct	-0.36	
	For >250 To 500, Deduct	-0.53	
	For >500 To 1,000, Deduct	-0.82	
	For >1,000, Deduct	-1.11	
	For 316 Stainless Steel, Add	6.62	
	For Aluminum, Add	0.37	
	For Galvanized Steel, Add	1.28	
	For 304 Stainless Steel, Add	5.90	
05 12 23 00-0525	LF C3 x 4.1 - 3" Wide Channel .....11.72		5.15
	For >100 To 250, Deduct	-0.52	
	For >250 To 500, Deduct	-0.81	
	For >500 To 1,000, Deduct	-1.27	
	For >1,000, Deduct	-1.74	
	For 316 Stainless Steel, Add	15.52	
	For Aluminum, Add	0.87	
	For Galvanized Steel, Add	3.01	
	For 304 Stainless Steel, Add	13.82	
05 12 23 00-0526	LF C3 x 5 - 3" Wide Channel .....14.31		6.29
	For >100 To 250, Deduct	-0.63	
	For >250 To 500, Deduct	-0.99	
	For >500 To 1,000, Deduct	-1.55	
	For >1,000, Deduct	-2.12	
	For 316 Stainless Steel, Add	18.94	
	For Aluminum, Add	1.07	
	For Galvanized Steel, Add	3.67	
	For 304 Stainless Steel, Add	16.87	
05 12 23 00-0527	LF C3 x 6 - 3" Wide Channel .....17.16		7.55
	For >100 To 250, Deduct	-0.75	
	For >250 To 500, Deduct	-1.18	
	For >500 To 1,000, Deduct	-1.86	
	For >1,000, Deduct	-2.54	
	For 316 Stainless Steel, Add	22.72	
	For Aluminum, Add	1.28	
	For Galvanized Steel, Add	4.40	
	For 304 Stainless Steel, Add	20.24	
05 12 23 00-0528	LF C4 x 5.4 - 4" Wide Channel .....14.64		6.19
	For >100 To 250, Deduct	-0.62	
	For >250 To 500, Deduct	-0.98	
	For >500 To 1,000, Deduct	-1.56	
	For >1,000, Deduct	-2.13	
	For 316 Stainless Steel, Add	20.45	
	For Aluminum, Add	1.15	
	For Galvanized Steel, Add	3.96	
	For 304 Stainless Steel, Add	18.21	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0529	LF		C4 x 7.25 - 4" Wide Channel.....	19.65	8.30
			<i>For &gt;100 To 250, Deduct</i>	-0.83	
			<i>For &gt;250 To 500, Deduct</i>	-1.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.09	
			<i>For &gt;1,000, Deduct</i>	-2.86	
			<i>For 316 Stainless Steel, Add</i>	27.46	
			<i>For Aluminum, Add</i>	1.54	
			<i>For Galvanized Steel, Add</i>	5.32	
			<i>For 304 Stainless Steel, Add</i>	24.45	
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	17.56	7.21
			<i>For &gt;100 To 250, Deduct</i>	-0.72	
			<i>For &gt;250 To 500, Deduct</i>	-1.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.84	
			<i>For &gt;1,000, Deduct</i>	-2.52	
			<i>For 316 Stainless Steel, Add</i>	25.38	
			<i>For Aluminum, Add</i>	1.43	
			<i>For Galvanized Steel, Add</i>	4.92	
			<i>For 304 Stainless Steel, Add</i>	22.60	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	23.57	9.70
			<i>For &gt;100 To 250, Deduct</i>	-0.97	
			<i>For &gt;250 To 500, Deduct</i>	-1.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.47	
			<i>For &gt;1,000, Deduct</i>	-3.38	
			<i>For 316 Stainless Steel, Add</i>	34.08	
			<i>For Aluminum, Add</i>	1.92	
			<i>For Galvanized Steel, Add</i>	6.60	
			<i>For 304 Stainless Steel, Add</i>	30.35	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	21.25	8.66
			<i>For &gt;100 To 250, Deduct</i>	-0.87	
			<i>For &gt;250 To 500, Deduct</i>	-1.40	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.22	
			<i>For &gt;1,000, Deduct</i>	-3.04	
			<i>For 316 Stainless Steel, Add</i>	31.04	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.01	
			<i>For 304 Stainless Steel, Add</i>	27.65	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	27.20	11.09
			<i>For &gt;100 To 250, Deduct</i>	-1.11	
			<i>For &gt;250 To 500, Deduct</i>	-1.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.84	
			<i>For &gt;1,000, Deduct</i>	-3.89	
			<i>For 316 Stainless Steel, Add</i>	39.74	
			<i>For Aluminum, Add</i>	2.24	
			<i>For Galvanized Steel, Add</i>	7.70	
			<i>For 304 Stainless Steel, Add</i>	35.40	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	33.69	13.73
			<i>For &gt;100 To 250, Deduct</i>	-1.37	
			<i>For &gt;250 To 500, Deduct</i>	-2.22	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.52	
			<i>For &gt;1,000, Deduct</i>	-4.82	
			<i>For 316 Stainless Steel, Add</i>	49.22	
			<i>For Aluminum, Add</i>	2.77	
			<i>For Galvanized Steel, Add</i>	9.54	
			<i>For 304 Stainless Steel, Add</i>	43.83	
05 12 23 00-0535	LF		C7 x 9.8 - 7" Wide Channel.....	25.33	10.31
			<i>For &gt;100 To 250, Deduct</i>	-1.03	
			<i>For &gt;250 To 500, Deduct</i>	-1.66	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.64	
			<i>For &gt;1,000, Deduct</i>	-3.62	
			<i>For 316 Stainless Steel, Add</i>	37.09	
			<i>For Aluminum, Add</i>	2.09	
			<i>For Galvanized Steel, Add</i>	7.19	
			<i>For 304 Stainless Steel, Add</i>	33.03	
05 12 23 00-0536	LF		C7 x 12.25 - 7" Wide Channel.....	31.67	12.89
			<i>For &gt;100 To 250, Deduct</i>	-1.29	
			<i>For &gt;250 To 500, Deduct</i>	-2.08	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.30	
			<i>For &gt;1,000, Deduct</i>	-4.52	
			<i>For 316 Stainless Steel, Add</i>	46.37	
			<i>For Aluminum, Add</i>	2.61	
			<i>For Galvanized Steel, Add</i>	8.98	
			<i>For 304 Stainless Steel, Add</i>	41.30	
05 12 23 00-0537	LF		C7 x 14.75 - 7" Wide Channel.....	38.15	15.51
			<i>For &gt;100 To 250, Deduct</i>	-1.55	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.98	
			<i>For &gt;1,000, Deduct</i>	-5.45	
			<i>For 316 Stainless Steel, Add</i>	55.84	
			<i>For Aluminum, Add</i>	3.14	
			<i>For Galvanized Steel, Add</i>	10.82	
			<i>For 304 Stainless Steel, Add</i>	49.73	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0538	LF		C8 x 11.5 - 8" Wide Channel.....	28.73	11.34
			<i>For &gt;100 To 250, Deduct</i>	-1.13	
			<i>For &gt;250 To 500, Deduct</i>	-1.85	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.95	
			<i>For &gt;1,000, Deduct</i>	-4.04	
			<i>For 316 Stainless Steel, Add</i>	43.55	
			<i>For Aluminum, Add</i>	2.45	
			<i>For Galvanized Steel, Add</i>	8.44	
			<i>For 304 Stainless Steel, Add</i>	38.79	
05 12 23 00-0539	LF		C8 x 13.75 - 8" Wide Channel.....	34.35	13.56
			<i>For &gt;100 To 250, Deduct</i>	-1.36	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.53	
			<i>For &gt;1,000, Deduct</i>	-4.84	
			<i>For 316 Stainless Steel, Add</i>	52.06	
			<i>For Aluminum, Add</i>	2.93	
			<i>For Galvanized Steel, Add</i>	10.09	
			<i>For 304 Stainless Steel, Add</i>	46.37	
05 12 23 00-0540	LF		C8 x 18.75 - 8" Wide Channel.....	46.83	18.49
			<i>For &gt;100 To 250, Deduct</i>	-1.85	
			<i>For &gt;250 To 500, Deduct</i>	-3.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.81	
			<i>For &gt;1,000, Deduct</i>	-6.59	
			<i>For 316 Stainless Steel, Add</i>	70.98	
			<i>For Aluminum, Add</i>	3.99	
			<i>For Galvanized Steel, Add</i>	13.75	
			<i>For 304 Stainless Steel, Add</i>	63.21	
05 12 23 00-0541	LF		C9 x 13.4 - 9" Wide Channel.....	33.48	13.22
			<i>For &gt;100 To 250, Deduct</i>	-1.32	
			<i>For &gt;250 To 500, Deduct</i>	-2.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.44	
			<i>For &gt;1,000, Deduct</i>	-4.71	
			<i>For 316 Stainless Steel, Add</i>	50.72	
			<i>For Aluminum, Add</i>	2.85	
			<i>For Galvanized Steel, Add</i>	9.83	
			<i>For 304 Stainless Steel, Add</i>	45.17	
05 12 23 00-0542	LF		C9 x 15 - 9" Wide Channel.....	37.47	14.79
			<i>For &gt;100 To 250, Deduct</i>	-1.48	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.85	
			<i>For &gt;1,000, Deduct</i>	-5.28	
			<i>For 316 Stainless Steel, Add</i>	56.80	
			<i>For Aluminum, Add</i>	3.20	
			<i>For Galvanized Steel, Add</i>	11.01	
			<i>For 304 Stainless Steel, Add</i>	50.59	
05 12 23 00-0543	LF		C9 x 20 - 9" Wide Channel.....	49.96	19.72
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-3.22	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.13	
			<i>For &gt;1,000, Deduct</i>	-7.03	
			<i>For 316 Stainless Steel, Add</i>	75.71	
			<i>For Aluminum, Add</i>	4.26	
			<i>For Galvanized Steel, Add</i>	14.67	
			<i>For 304 Stainless Steel, Add</i>	67.43	
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel.....	38.21	15.08
			<i>For &gt;100 To 250, Deduct</i>	-1.51	
			<i>For &gt;250 To 500, Deduct</i>	-2.46	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.92	
			<i>For &gt;1,000, Deduct</i>	-5.38	
			<i>For 316 Stainless Steel, Add</i>	57.92	
			<i>For Aluminum, Add</i>	3.26	
			<i>For Galvanized Steel, Add</i>	11.22	
			<i>For 304 Stainless Steel, Add</i>	51.59	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel.....	49.96	19.72
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-3.22	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.13	
			<i>For &gt;1,000, Deduct</i>	-7.03	
			<i>For 316 Stainless Steel, Add</i>	75.71	
			<i>For Aluminum, Add</i>	4.26	
			<i>For Galvanized Steel, Add</i>	14.67	
			<i>For 304 Stainless Steel, Add</i>	67.43	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel.....	62.46	24.65
			<i>For &gt;100 To 250, Deduct</i>	-2.47	
			<i>For &gt;250 To 500, Deduct</i>	-4.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.41	
			<i>For &gt;1,000, Deduct</i>	-8.79	
			<i>For 316 Stainless Steel, Add</i>	94.66	
			<i>For Aluminum, Add</i>	5.32	
			<i>For Galvanized Steel, Add</i>	18.34	
			<i>For 304 Stainless Steel, Add</i>	84.30	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0547 LF C10 x 30 - 10" Wide Channel.....	74.94	29.58
For >100 To 250, Deduct	-2.96	
For >250 To 500, Deduct	-4.83	
For >500 To 1,000, Deduct	-7.69	
For >1,000, Deduct	-10.55	
For 316 Stainless Steel, Add	113.57	
For Aluminum, Add	6.39	
For Galvanized Steel, Add	22.00	
For 304 Stainless Steel, Add	101.15	
05 12 23 00-0548 LF C12 x 20.7 - 12" Wide Channel.....	51.71	20.42
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-3.33	
For >500 To 1,000, Deduct	-5.31	
For >1,000, Deduct	-7.28	
For 316 Stainless Steel, Add	78.37	
For Aluminum, Add	4.41	
For Galvanized Steel, Add	15.18	
For 304 Stainless Steel, Add	69.80	
05 12 23 00-0549 LF C12 x 25 - 12" Wide Channel.....	62.46	24.65
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-4.03	
For >500 To 1,000, Deduct	-6.41	
For >1,000, Deduct	-8.79	
For 316 Stainless Steel, Add	94.66	
For Aluminum, Add	5.32	
For Galvanized Steel, Add	18.34	
For 304 Stainless Steel, Add	84.30	
05 12 23 00-0550 LF C12 x 30 - 12" Wide Channel.....	74.94	29.58
For >100 To 250, Deduct	-2.96	
For >250 To 500, Deduct	-4.83	
For >500 To 1,000, Deduct	-7.69	
For >1,000, Deduct	-10.55	
For 316 Stainless Steel, Add	113.57	
For Aluminum, Add	6.39	
For Galvanized Steel, Add	22.00	
For 304 Stainless Steel, Add	101.15	
05 12 23 00-0551 LF C15 x 33.9 - 15" Wide Channel.....	84.69	33.43
For >100 To 250, Deduct	-3.34	
For >250 To 500, Deduct	-5.46	
For >500 To 1,000, Deduct	-8.69	
For >1,000, Deduct	-11.92	
For 316 Stainless Steel, Add	128.35	
For Aluminum, Add	7.22	
For Galvanized Steel, Add	24.87	
For 304 Stainless Steel, Add	114.31	
05 12 23 00-0552 LF C15 x 40 - 15" Wide Channel.....	99.92	39.45
For >100 To 250, Deduct	-3.95	
For >250 To 500, Deduct	-6.44	
For >500 To 1,000, Deduct	-10.26	
For >1,000, Deduct	-14.07	
For 316 Stainless Steel, Add	151.42	
For Aluminum, Add	8.52	
For Galvanized Steel, Add	29.34	
For 304 Stainless Steel, Add	134.86	
05 12 23 00-0553 LF C15 x 50 - 15" Wide Channel.....	124.90	49.31
For >100 To 250, Deduct	-4.93	
For >250 To 500, Deduct	-8.05	
For >500 To 1,000, Deduct	-12.82	
For >1,000, Deduct	-17.59	
For 316 Stainless Steel, Add	189.28	
For Aluminum, Add	10.65	
For Galvanized Steel, Add	36.67	
For 304 Stainless Steel, Add	168.58	
<b>05 12 23 00-0554 Miscellaneous Channels - MC</b> <small>(05 12 23 00-0408)</small>		
05 12 23 00-0555 LF MC6 x 12 - 6" Wide Channel.....	31.10	12.68
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-3.25	
For >1,000, Deduct	-4.45	
For 316 Stainless Steel, Add	45.44	
For Aluminum, Add	2.56	
For Galvanized Steel, Add	8.80	
For 304 Stainless Steel, Add	40.47	
05 12 23 00-0556 LF MC6 x 15.1 - 6" Wide Channel.....	39.12	15.95
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.57	
For >500 To 1,000, Deduct	-4.08	
For >1,000, Deduct	-5.59	
For 316 Stainless Steel, Add	57.15	
For Aluminum, Add	3.21	
For Galvanized Steel, Add	11.07	
For 304 Stainless Steel, Add	50.90	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557	LF		MC6 x 15.3 - 6" Wide Channel.....	39.65	16.16
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.61	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.14	
			<i>For &gt;1,000, Deduct</i>	-5.67	
			<i>For 316 Stainless Steel, Add</i>	57.92	
			<i>For Aluminum, Add</i>	3.26	
			<i>For Galvanized Steel, Add</i>	11.22	
			<i>For 304 Stainless Steel, Add</i>	51.59	
05 12 23 00-0558	LF		MC6 x 16.3 - 6" Wide Channel.....	42.24	17.21
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.78	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.41	
			<i>For &gt;1,000, Deduct</i>	-6.04	
			<i>For 316 Stainless Steel, Add</i>	61.70	
			<i>For Aluminum, Add</i>	3.47	
			<i>For Galvanized Steel, Add</i>	11.95	
			<i>For 304 Stainless Steel, Add</i>	54.95	
05 12 23 00-0559	LF		MC6 x 18 - 6" Wide Channel.....	46.65	19.01
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-3.07	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.87	
			<i>For &gt;1,000, Deduct</i>	-6.67	
			<i>For 316 Stainless Steel, Add</i>	68.16	
			<i>For Aluminum, Add</i>	3.83	
			<i>For Galvanized Steel, Add</i>	13.21	
			<i>For 304 Stainless Steel, Add</i>	60.71	
05 12 23 00-0560	LF		MC7 x 17.6 - 7" Wide Channel.....	45.51	18.52
			<i>For &gt;100 To 250, Deduct</i>	-1.85	
			<i>For &gt;250 To 500, Deduct</i>	-2.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.74	
			<i>For &gt;1,000, Deduct</i>	-6.50	
			<i>For 316 Stainless Steel, Add</i>	66.62	
			<i>For Aluminum, Add</i>	3.75	
			<i>For Galvanized Steel, Add</i>	12.91	
			<i>For 304 Stainless Steel, Add</i>	59.34	
05 12 23 00-0561	LF		MC7 x 19.1 - 7" Wide Channel.....	49.40	20.10
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-3.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.15	
			<i>For &gt;1,000, Deduct</i>	-7.06	
			<i>For 316 Stainless Steel, Add</i>	72.32	
			<i>For Aluminum, Add</i>	4.07	
			<i>For Galvanized Steel, Add</i>	14.01	
			<i>For 304 Stainless Steel, Add</i>	64.41	
05 12 23 00-0562	LF		MC7 x 22.7 - 7" Wide Channel.....	58.70	23.88
			<i>For &gt;100 To 250, Deduct</i>	-2.39	
			<i>For &gt;250 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.12	
			<i>For &gt;1,000, Deduct</i>	-8.38	
			<i>For 316 Stainless Steel, Add</i>	85.95	
			<i>For Aluminum, Add</i>	4.83	
			<i>For Galvanized Steel, Add</i>	16.65	
			<i>For 304 Stainless Steel, Add</i>	76.55	
05 12 23 00-0563	LF		MC8 x 8.5 - 8" Wide Channel.....	21.24	8.39
			<i>For &gt;100 To 250, Deduct</i>	-0.84	
			<i>For &gt;250 To 500, Deduct</i>	-1.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.18	
			<i>For &gt;1,000, Deduct</i>	-2.99	
			<i>For 316 Stainless Steel, Add</i>	32.19	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.24	
			<i>For 304 Stainless Steel, Add</i>	28.67	
05 12 23 00-0564	LF		MC8 x 18.7 - 8" Wide Channel.....	46.71	18.44
			<i>For &gt;100 To 250, Deduct</i>	-1.84	
			<i>For &gt;250 To 500, Deduct</i>	-3.01	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.79	
			<i>For &gt;1,000, Deduct</i>	-6.58	
			<i>For 316 Stainless Steel, Add</i>	70.78	
			<i>For Aluminum, Add</i>	3.98	
			<i>For Galvanized Steel, Add</i>	13.71	
			<i>For 304 Stainless Steel, Add</i>	63.04	
05 12 23 00-0565	LF		MC8 x 20 - 8" Wide Channel.....	49.96	19.72
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-3.22	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.13	
			<i>For &gt;1,000, Deduct</i>	-7.03	
			<i>For 316 Stainless Steel, Add</i>	75.71	
			<i>For Aluminum, Add</i>	4.26	
			<i>For Galvanized Steel, Add</i>	14.67	
			<i>For 304 Stainless Steel, Add</i>	67.43	





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel.....	53.46	21.11
			<i>For &gt;100 To 250, Deduct</i>	-2.11	
			<i>For &gt;250 To 500, Deduct</i>	-3.45	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.49	
			<i>For &gt;1,000, Deduct</i>	-7.53	
			<i>For 316 Stainless Steel, Add</i>	81.02	
			<i>For Aluminum, Add</i>	4.56	
			<i>For Galvanized Steel, Add</i>	15.70	
			<i>For 304 Stainless Steel, Add</i>	72.16	
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	56.95	22.49
			<i>For &gt;100 To 250, Deduct</i>	-2.25	
			<i>For &gt;250 To 500, Deduct</i>	-3.67	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.85	
			<i>For &gt;1,000, Deduct</i>	-8.02	
			<i>For 316 Stainless Steel, Add</i>	86.30	
			<i>For Aluminum, Add</i>	4.85	
			<i>For Galvanized Steel, Add</i>	16.72	
			<i>For 304 Stainless Steel, Add</i>	76.86	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	59.71	23.57
			<i>For &gt;100 To 250, Deduct</i>	-2.36	
			<i>For &gt;250 To 500, Deduct</i>	-3.85	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.13	
			<i>For &gt;1,000, Deduct</i>	-8.41	
			<i>For 316 Stainless Steel, Add</i>	90.50	
			<i>For Aluminum, Add</i>	5.09	
			<i>For Galvanized Steel, Add</i>	17.53	
			<i>For 304 Stainless Steel, Add</i>	80.60	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	63.44	25.05
			<i>For &gt;100 To 250, Deduct</i>	-2.50	
			<i>For &gt;250 To 500, Deduct</i>	-4.09	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.51	
			<i>For &gt;1,000, Deduct</i>	-8.93	
			<i>For 316 Stainless Steel, Add</i>	96.16	
			<i>For Aluminum, Add</i>	5.41	
			<i>For Galvanized Steel, Add</i>	18.63	
			<i>For 304 Stainless Steel, Add</i>	85.64	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	16.24	6.41
			<i>For &gt;100 To 250, Deduct</i>	-0.64	
			<i>For &gt;250 To 500, Deduct</i>	-1.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
			<i>For &gt;1,000, Deduct</i>	-2.29	
			<i>For 316 Stainless Steel, Add</i>	24.61	
			<i>For Aluminum, Add</i>	1.38	
			<i>For Galvanized Steel, Add</i>	4.77	
			<i>For 304 Stainless Steel, Add</i>	21.92	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	20.99	8.28
			<i>For &gt;100 To 250, Deduct</i>	-0.83	
			<i>For &gt;250 To 500, Deduct</i>	-1.35	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.15	
			<i>For &gt;1,000, Deduct</i>	-2.96	
			<i>For 316 Stainless Steel, Add</i>	31.81	
			<i>For Aluminum, Add</i>	1.79	
			<i>For Galvanized Steel, Add</i>	6.16	
			<i>For 304 Stainless Steel, Add</i>	28.33	
05 12 23 00-0572	LF		MC10 x 21.9 - 10" Wide Channel.....	54.70	21.60
			<i>For &gt;100 To 250, Deduct</i>	-2.16	
			<i>For &gt;250 To 500, Deduct</i>	-3.53	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.61	
			<i>For &gt;1,000, Deduct</i>	-7.70	
			<i>For 316 Stainless Steel, Add</i>	82.91	
			<i>For Aluminum, Add</i>	4.66	
			<i>For Galvanized Steel, Add</i>	16.06	
			<i>For 304 Stainless Steel, Add</i>	73.84	
05 12 23 00-0573	LF		MC10 x 24.9 - 10" Wide Channel.....	62.21	24.56
			<i>For &gt;100 To 250, Deduct</i>	-2.46	
			<i>For &gt;250 To 500, Deduct</i>	-4.01	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.39	
			<i>For &gt;1,000, Deduct</i>	-8.76	
			<i>For 316 Stainless Steel, Add</i>	94.27	
			<i>For Aluminum, Add</i>	5.30	
			<i>For Galvanized Steel, Add</i>	18.27	
			<i>For 304 Stainless Steel, Add</i>	83.96	
05 12 23 00-0574	LF		MC10 x 25.3 - 10" Wide Channel.....	63.20	24.95
			<i>For &gt;100 To 250, Deduct</i>	-2.50	
			<i>For &gt;250 To 500, Deduct</i>	-4.08	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.49	
			<i>For &gt;1,000, Deduct</i>	-8.90	
			<i>For 316 Stainless Steel, Add</i>	95.78	
			<i>For Aluminum, Add</i>	5.39	
			<i>For Galvanized Steel, Add</i>	18.56	
			<i>For 304 Stainless Steel, Add</i>	85.30	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		MC10 x 28.3 - 10" Wide Channel.....	70.70	27.91
			<i>For &gt;100 To 250, Deduct</i>	-2.79	
			<i>For &gt;250 To 500, Deduct</i>	-4.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.26	
			<i>For &gt;1,000, Deduct</i>	-9.96	
			<i>For 316 Stainless Steel, Add</i>	107.14	
			<i>For Aluminum, Add</i>	6.03	
			<i>For Galvanized Steel, Add</i>	20.76	
			<i>For 304 Stainless Steel, Add</i>	95.42	
05 12 23 00-0576	LF		MC10 x 28.5 - 10" Wide Channel.....	71.20	28.11
			<i>For &gt;100 To 250, Deduct</i>	-2.81	
			<i>For &gt;250 To 500, Deduct</i>	-4.59	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.31	
			<i>For &gt;1,000, Deduct</i>	-10.03	
			<i>For 316 Stainless Steel, Add</i>	107.90	
			<i>For Aluminum, Add</i>	6.07	
			<i>For Galvanized Steel, Add</i>	20.91	
			<i>For 304 Stainless Steel, Add</i>	96.10	
05 12 23 00-0577	LF		MC10 x 33.6 - 10" Wide Channel.....	83.94	33.14
			<i>For &gt;100 To 250, Deduct</i>	-3.31	
			<i>For &gt;250 To 500, Deduct</i>	-5.41	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.62	
			<i>For &gt;1,000, Deduct</i>	-11.82	
			<i>For 316 Stainless Steel, Add</i>	127.20	
			<i>For Aluminum, Add</i>	7.16	
			<i>For Galvanized Steel, Add</i>	24.65	
			<i>For 304 Stainless Steel, Add</i>	113.29	
05 12 23 00-0578	LF		MC10 x 41.1 - 10" Wide Channel.....	102.67	40.54
			<i>For &gt;100 To 250, Deduct</i>	-4.05	
			<i>For &gt;250 To 500, Deduct</i>	-6.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.54	
			<i>For &gt;1,000, Deduct</i>	-14.46	
			<i>For 316 Stainless Steel, Add</i>	155.58	
			<i>For Aluminum, Add</i>	8.75	
			<i>For Galvanized Steel, Add</i>	30.14	
			<i>For 304 Stainless Steel, Add</i>	138.57	
05 12 23 00-0579	LF		MC12 x 30.9 - 12" Wide Channel.....	77.20	30.47
			<i>For &gt;100 To 250, Deduct</i>	-3.05	
			<i>For &gt;250 To 500, Deduct</i>	-4.98	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.92	
			<i>For &gt;1,000, Deduct</i>	-10.87	
			<i>For 316 Stainless Steel, Add</i>	116.99	
			<i>For Aluminum, Add</i>	6.58	
			<i>For Galvanized Steel, Add</i>	22.67	
			<i>For 304 Stainless Steel, Add</i>	104.20	
05 12 23 00-0580	LF		MC12 x 32.9 - 12" Wide Channel.....	82.18	32.45
			<i>For &gt;100 To 250, Deduct</i>	-3.24	
			<i>For &gt;250 To 500, Deduct</i>	-5.30	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.44	
			<i>For &gt;1,000, Deduct</i>	-11.57	
			<i>For 316 Stainless Steel, Add</i>	124.54	
			<i>For Aluminum, Add</i>	7.01	
			<i>For Galvanized Steel, Add</i>	24.13	
			<i>For 304 Stainless Steel, Add</i>	110.92	
05 12 23 00-0581	LF		MC12 x 35 - 12" Wide Channel.....	87.44	34.52
			<i>For &gt;100 To 250, Deduct</i>	-3.45	
			<i>For &gt;250 To 500, Deduct</i>	-5.64	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.98	
			<i>For &gt;1,000, Deduct</i>	-12.31	
			<i>For 316 Stainless Steel, Add</i>	132.51	
			<i>For Aluminum, Add</i>	7.45	
			<i>For Galvanized Steel, Add</i>	25.67	
			<i>For 304 Stainless Steel, Add</i>	118.02	
05 12 23 00-0582	LF		MC12 x 37 - 12" Wide Channel.....	92.43	36.49
			<i>For &gt;100 To 250, Deduct</i>	-3.65	
			<i>For &gt;250 To 500, Deduct</i>	-5.96	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.49	
			<i>For &gt;1,000, Deduct</i>	-13.01	
			<i>For 316 Stainless Steel, Add</i>	140.06	
			<i>For Aluminum, Add</i>	7.88	
			<i>For Galvanized Steel, Add</i>	27.14	
			<i>For 304 Stainless Steel, Add</i>	124.74	
05 12 23 00-0583	LF		MC12 x 40 - 12" Wide Channel.....	99.92	39.45
			<i>For &gt;100 To 250, Deduct</i>	-3.95	
			<i>For &gt;250 To 500, Deduct</i>	-6.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.26	
			<i>For &gt;1,000, Deduct</i>	-14.07	
			<i>For 316 Stainless Steel, Add</i>	151.42	
			<i>For Aluminum, Add</i>	8.52	
			<i>For Galvanized Steel, Add</i>	29.34	
			<i>For 304 Stainless Steel, Add</i>	134.86	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0584	LF		MC12 x 45 - 12" Wide Channel.....	112.42	44.39
			<i>For &gt;100 To 250, Deduct</i>	-4.44	
			<i>For &gt;250 To 500, Deduct</i>	-7.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.54	
			<i>For &gt;1,000, Deduct</i>	-15.83	
			<i>For 316 Stainless Steel, Add</i>	170.37	
			<i>For Aluminum, Add</i>	9.58	
			<i>For Galvanized Steel, Add</i>	33.01	
			<i>For 304 Stainless Steel, Add</i>	151.73	
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	124.90	49.32
			<i>For &gt;100 To 250, Deduct</i>	-4.93	
			<i>For &gt;250 To 500, Deduct</i>	-8.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-12.82	
			<i>For &gt;1,000, Deduct</i>	-17.59	
			<i>For 316 Stainless Steel, Add</i>	189.28	
			<i>For Aluminum, Add</i>	10.65	
			<i>For Galvanized Steel, Add</i>	36.67	
			<i>For 304 Stainless Steel, Add</i>	168.58	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	79.44	31.36
			<i>For &gt;100 To 250, Deduct</i>	-3.14	
			<i>For &gt;250 To 500, Deduct</i>	-5.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.15	
			<i>For &gt;1,000, Deduct</i>	-11.19	
			<i>For 316 Stainless Steel, Add</i>	120.38	
			<i>For Aluminum, Add</i>	6.77	
			<i>For Galvanized Steel, Add</i>	23.32	
			<i>For 304 Stainless Steel, Add</i>	107.22	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	87.44	34.52
			<i>For &gt;100 To 250, Deduct</i>	-3.45	
			<i>For &gt;250 To 500, Deduct</i>	-5.64	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.98	
			<i>For &gt;1,000, Deduct</i>	-12.31	
			<i>For 316 Stainless Steel, Add</i>	132.51	
			<i>For Aluminum, Add</i>	7.45	
			<i>For Galvanized Steel, Add</i>	25.67	
			<i>For 304 Stainless Steel, Add</i>	118.02	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	99.92	39.45
			<i>For &gt;100 To 250, Deduct</i>	-3.95	
			<i>For &gt;250 To 500, Deduct</i>	-6.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.26	
			<i>For &gt;1,000, Deduct</i>	-14.07	
			<i>For 316 Stainless Steel, Add</i>	151.42	
			<i>For Aluminum, Add</i>	8.52	
			<i>For Galvanized Steel, Add</i>	29.34	
			<i>For 304 Stainless Steel, Add</i>	134.86	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	124.90	49.32
			<i>For &gt;100 To 250, Deduct</i>	-4.93	
			<i>For &gt;250 To 500, Deduct</i>	-8.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-12.82	
			<i>For &gt;1,000, Deduct</i>	-17.59	
			<i>For 316 Stainless Steel, Add</i>	189.28	
			<i>For Aluminum, Add</i>	10.65	
			<i>For Galvanized Steel, Add</i>	36.67	
			<i>For 304 Stainless Steel, Add</i>	168.58	
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel.....	106.67	42.12
			<i>For &gt;100 To 250, Deduct</i>	-4.21	
			<i>For &gt;250 To 500, Deduct</i>	-6.88	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.95	
			<i>For &gt;1,000, Deduct</i>	-15.02	
			<i>For 316 Stainless Steel, Add</i>	161.66	
			<i>For Aluminum, Add</i>	9.09	
			<i>For Galvanized Steel, Add</i>	31.32	
			<i>For 304 Stainless Steel, Add</i>	143.98	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel.....	114.42	45.17
			<i>For &gt;100 To 250, Deduct</i>	-4.52	
			<i>For &gt;250 To 500, Deduct</i>	-7.38	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.74	
			<i>For &gt;1,000, Deduct</i>	-16.11	
			<i>For 316 Stainless Steel, Add</i>	173.41	
			<i>For Aluminum, Add</i>	9.75	
			<i>For Galvanized Steel, Add</i>	33.60	
			<i>For 304 Stainless Steel, Add</i>	154.44	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel.....	129.65	51.19
			<i>For &gt;100 To 250, Deduct</i>	-5.12	
			<i>For &gt;250 To 500, Deduct</i>	-8.36	
			<i>For &gt;500 To 1,000, Deduct</i>	-13.31	
			<i>For &gt;1,000, Deduct</i>	-18.26	
			<i>For 316 Stainless Steel, Add</i>	196.48	
			<i>For Aluminum, Add</i>	11.05	
			<i>For Galvanized Steel, Add</i>	38.07	
			<i>For 304 Stainless Steel, Add</i>	174.99	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0593	LF		MC18 x 58 - 18" Wide Channel.....	144.89	57.20
			<i>For &gt;100 To 250, Deduct</i>	-5.72	
			<i>For &gt;250 To 500, Deduct</i>	-9.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-14.87	
			<i>For &gt;1,000, Deduct</i>	-20.40	
			<i>For 316 Stainless Steel, Add</i>	219.58	
			<i>For Aluminum, Add</i>	12.35	
			<i>For Galvanized Steel, Add</i>	42.54	
			<i>For 304 Stainless Steel, Add</i>	195.57	
<b>05 12 23 00-0594</b>			<b>Structural Bar Tees</b> (05 12 23 00-0408)		
05 12 23 00-0595	LF		3/4" x 3/4" x 1/8" Structural Bar Tee.....	4.46	2.63
			<i>For &gt;100 To 250, Deduct</i>	-0.26	
			<i>For &gt;250 To 500, Deduct</i>	-0.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.57	
			<i>For &gt;1,000, Deduct</i>	-0.77	
			<i>For 316 Stainless Steel, Add</i>	3.07	
			<i>For Aluminum, Add</i>	0.17	
			<i>For Galvanized Steel, Add</i>	0.60	
			<i>For 304 Stainless Steel, Add</i>	2.74	
05 12 23 00-0596	LF		1" x 1" x 1/8" Structural Bar Tee.....	5.43	3.09
			<i>For &gt;100 To 250, Deduct</i>	-0.31	
			<i>For &gt;250 To 500, Deduct</i>	-0.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
			<i>For &gt;1,000, Deduct</i>	-0.92	
			<i>For 316 Stainless Steel, Add</i>	4.19	
			<i>For Aluminum, Add</i>	0.24	
			<i>For Galvanized Steel, Add</i>	0.81	
			<i>For 304 Stainless Steel, Add</i>	3.73	
05 12 23 00-0597	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee.....	8.51	3.57
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.57	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.90	
			<i>For &gt;1,000, Deduct</i>	-1.23	
			<i>For 316 Stainless Steel, Add</i>	12.00	
			<i>For Aluminum, Add</i>	0.68	
			<i>For Galvanized Steel, Add</i>	2.33	
			<i>For 304 Stainless Steel, Add</i>	10.69	
05 12 23 00-0598	LF		2" x 2" x 1/4" Structural Bar Tee.....	11.82	4.67
			<i>For &gt;100 To 250, Deduct</i>	-0.47	
			<i>For &gt;250 To 500, Deduct</i>	-0.76	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.21	
			<i>For &gt;1,000, Deduct</i>	-1.67	
			<i>For 316 Stainless Steel, Add</i>	17.89	
			<i>For Aluminum, Add</i>	1.01	
			<i>For Galvanized Steel, Add</i>	3.47	
			<i>For 304 Stainless Steel, Add</i>	15.93	
05 12 23 00-0599	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee.....	17.55	5.63
			<i>For &gt;100 To 250, Deduct</i>	-0.56	
			<i>For &gt;250 To 500, Deduct</i>	-1.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.63	
			<i>For &gt;1,000, Deduct</i>	-2.26	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
05 12 23 00-0600	LF		3" x 3" x 3/8" Structural Bar Tee.....	21.67	7.21
			<i>For &gt;100 To 250, Deduct</i>	-0.72	
			<i>For &gt;250 To 500, Deduct</i>	-1.26	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.05	
			<i>For &gt;1,000, Deduct</i>	-2.83	
			<i>For 316 Stainless Steel, Add</i>	38.53	
			<i>For Aluminum, Add</i>	2.17	
			<i>For Galvanized Steel, Add</i>	7.46	
			<i>For 304 Stainless Steel, Add</i>	34.31	
<b>05 12 23 00-0601</b>			<b>Structural Zees</b> (05 12 23 00-0408)		
05 12 23 00-0602	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee.....	10.35	3.57
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.99	
			<i>For &gt;1,000, Deduct</i>	-1.37	
			<i>For 316 Stainless Steel, Add</i>	17.89	
			<i>For Aluminum, Add</i>	1.01	
			<i>For Galvanized Steel, Add</i>	3.47	
			<i>For 304 Stainless Steel, Add</i>	15.93	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee .....	19.06	4.26
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.52	
For >1,000, Deduct	-2.14	
For 316 Stainless Steel, Add	42.82	
For Aluminum, Add	2.41	
For Galvanized Steel, Add	8.30	
For 304 Stainless Steel, Add	38.13	
05 12 23 00-0604 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee .....	22.80	4.81
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-1.78	
For >1,000, Deduct	-2.51	
For 316 Stainless Steel, Add	52.42	
For Aluminum, Add	2.95	
For Galvanized Steel, Add	10.16	
For 304 Stainless Steel, Add	46.68	
05 12 23 00-0605 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee .....	30.50	5.49
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.31	
For >500 To 1,000, Deduct	-2.26	
For >1,000, Deduct	-3.20	
For 316 Stainless Steel, Add	74.14	
For Aluminum, Add	4.17	
For Galvanized Steel, Add	14.37	
For 304 Stainless Steel, Add	66.03	
05 12 23 00-0606 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee .....	39.34	5.98
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.77	
For >1,000, Deduct	-3.95	
For 316 Stainless Steel, Add	100.35	
For Aluminum, Add	5.64	
For Galvanized Steel, Add	19.44	
For 304 Stainless Steel, Add	89.38	
<b>05 12 23 00-0607 Junior I-Beams</b> <small>(05 12 23 00-0408)</small>		
05 12 23 00-0608 LF 3" Junior I-Beam, 2.9 LB/LF .....	14.24	5.15
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.87	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.93	
For 316 Stainless Steel, Add	23.58	
For Aluminum, Add	1.33	
For Galvanized Steel, Add	4.57	
For 304 Stainless Steel, Add	21.00	
05 12 23 00-0609 LF 4" Junior I-Beam, 3.2 LB/LF .....	15.66	5.63
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.54	
For >1,000, Deduct	-2.11	
For 316 Stainless Steel, Add	26.05	
For Aluminum, Add	1.47	
For Galvanized Steel, Add	5.05	
For 304 Stainless Steel, Add	23.20	
05 12 23 00-0610 LF 5" Junior I-Beam, 3.8 LB/LF .....	17.91	6.19
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-1.72	
For >1,000, Deduct	-2.37	
For 316 Stainless Steel, Add	30.91	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	5.99	
For 304 Stainless Steel, Add	27.53	
05 12 23 00-0611 LF 6" Junior I-Beam, 4.4 LB/LF .....	20.17	6.74
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-1.91	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	35.81	
For Aluminum, Add	2.01	
For Galvanized Steel, Add	6.94	
For 304 Stainless Steel, Add	31.89	
05 12 23 00-0612 LF 7" Junior I-Beam, 5.5 LB/LF .....	23.60	7.21
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.31	
For >500 To 1,000, Deduct	-2.14	
For >1,000, Deduct	-2.97	
For 316 Stainless Steel, Add	44.74	
For Aluminum, Add	2.52	
For Galvanized Steel, Add	8.67	
For 304 Stainless Steel, Add	39.84	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0613	LF		8" Junior I-Beam, 6.5 LB/LF .....	26.78	7.70
			<i>For &gt;100 To 250, Deduct</i>	-0.77	
			<i>For &gt;250 To 500, Deduct</i>	-1.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.37	
			<i>For &gt;1,000, Deduct</i>	-3.29	
			<i>For 316 Stainless Steel, Add</i>	52.86	
			<i>For Aluminum, Add</i>	2.97	
			<i>For Galvanized Steel, Add</i>	10.24	
			<i>For 304 Stainless Steel, Add</i>	47.08	
05 12 23 00-0614	LF		10" Junior I-Beam, 9 LB/LF .....	34.61	8.79
			<i>For &gt;100 To 250, Deduct</i>	-0.88	
			<i>For &gt;250 To 500, Deduct</i>	-1.75	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.90	
			<i>For &gt;1,000, Deduct</i>	-4.06	
			<i>For 316 Stainless Steel, Add</i>	73.22	
			<i>For Aluminum, Add</i>	4.12	
			<i>For Galvanized Steel, Add</i>	14.19	
			<i>For 304 Stainless Steel, Add</i>	65.21	
05 12 23 00-0615	LF		12" Junior I-Beam, 11.8 LB/LF .....	43.93	10.44
			<i>For &gt;100 To 250, Deduct</i>	-1.04	
			<i>For &gt;250 To 500, Deduct</i>	-2.14	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.59	
			<i>For &gt;1,000, Deduct</i>	-5.04	
			<i>For 316 Stainless Steel, Add</i>	96.00	
			<i>For Aluminum, Add</i>	5.40	
			<i>For Galvanized Steel, Add</i>	18.60	
			<i>For 304 Stainless Steel, Add</i>	85.50	
05 12 23 00-0616			<b>Round Stock</b> (05 12 23 00-0408)		
05 12 23 00-0617	LF		1/4" Carbon Steel Rounds, ASTM A108 .....	1.70	
			<i>For 316 Stainless Steel, Add</i>	2.50	
			<i>For Aluminum, Add</i>	0.14	
			<i>For Galvanized Steel, Add</i>	0.48	
			<i>For 304 Stainless Steel, Add</i>	2.22	
05 12 23 00-0618	LF		3/8" Carbon Steel Rounds, ASTM A108 .....	2.59	
			<i>For 316 Stainless Steel, Add</i>	4.93	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.95	
			<i>For 304 Stainless Steel, Add</i>	4.39	
05 12 23 00-0619	LF		1/2" Carbon Steel Rounds, ASTM A108 .....	3.50	
			<i>For 316 Stainless Steel, Add</i>	7.52	
			<i>For Aluminum, Add</i>	0.42	
			<i>For Galvanized Steel, Add</i>	1.46	
			<i>For 304 Stainless Steel, Add</i>	6.70	
05 12 23 00-0620	LF		5/8" Carbon Steel Rounds, ASTM A108 .....	5.20	
			<i>For 316 Stainless Steel, Add</i>	12.54	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.43	
			<i>For 304 Stainless Steel, Add</i>	11.17	
05 12 23 00-0621	LF		3/4" Carbon Steel Rounds, ASTM A108 .....	6.19	
			<i>For 316 Stainless Steel, Add</i>	14.91	
			<i>For Aluminum, Add</i>	0.84	
			<i>For Galvanized Steel, Add</i>	2.89	
			<i>For 304 Stainless Steel, Add</i>	13.28	
05 12 23 00-0622	LF		7/8" Carbon Steel Rounds, ASTM A108 .....	7.20	
			<i>For 316 Stainless Steel, Add</i>	17.41	
			<i>For Aluminum, Add</i>	0.98	
			<i>For Galvanized Steel, Add</i>	3.37	
			<i>For 304 Stainless Steel, Add</i>	15.50	
05 12 23 00-0623	LF		1" Carbon Steel Rounds, ASTM A108 .....	10.37	
			<i>For 316 Stainless Steel, Add</i>	26.53	
			<i>For Aluminum, Add</i>	1.49	
			<i>For Galvanized Steel, Add</i>	5.14	
			<i>For 304 Stainless Steel, Add</i>	23.63	
05 12 23 00-0624	LF		1-1/8" Carbon Steel Rounds, ASTM A108 .....	12.63	
			<i>For 316 Stainless Steel, Add</i>	32.26	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.25	
			<i>For 304 Stainless Steel, Add</i>	28.73	
05 12 23 00-0625	LF		1-1/4" Carbon Steel Rounds, ASTM A108 .....	15.13	
			<i>For 316 Stainless Steel, Add</i>	37.95	
			<i>For Aluminum, Add</i>	2.13	
			<i>For Galvanized Steel, Add</i>	7.35	
			<i>For 304 Stainless Steel, Add</i>	33.80	
05 12 23 00-0626	LF		1-3/8" Carbon Steel Rounds, ASTM A108 .....	18.29	
			<i>For 316 Stainless Steel, Add</i>	46.30	
			<i>For Aluminum, Add</i>	2.60	
			<i>For Galvanized Steel, Add</i>	8.97	
			<i>For 304 Stainless Steel, Add</i>	41.24	
05 12 23 00-0627	LF		1-1/2" Carbon Steel Rounds, ASTM A108 .....	20.45	
			<i>For 316 Stainless Steel, Add</i>	50.78	
			<i>For Aluminum, Add</i>	2.86	
			<i>For Galvanized Steel, Add</i>	9.84	
			<i>For 304 Stainless Steel, Add</i>	45.23	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0628	LF		1-5/8" Carbon Steel Rounds, ASTM A108 .....23.71 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	57.57 3.24 11.15 51.27	
05 12 23 00-0629	LF		1-3/4" Carbon Steel Rounds, ASTM A108 .....28.58 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	67.01 3.77 12.98 59.68	
05 12 23 00-0630	LF		1-7/8" Carbon Steel Rounds, ASTM A108 .....34.60 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	78.46 4.41 15.20 69.88	
05 12 23 00-0631	LF		2" Carbon Steel Rounds, ASTM A108 .....39.68 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	87.30 4.91 16.91 77.75	
05 12 23 00-0632	LF		2-1/8" Carbon Steel Rounds, ASTM A108 .....46.55 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	99.68 5.61 19.31 88.78	
05 12 23 00-0633	LF		2-1/4" Carbon Steel Rounds, ASTM A108 .....52.74 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	112.10 6.31 21.72 99.84	
05 12 23 00-0634	LF		2-3/8" Carbon Steel Rounds, ASTM A108 .....60.43 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	128.22 7.21 24.84 114.20	
05 12 23 00-0635	LF		2-1/2" Carbon Steel Rounds, ASTM A108 .....67.10 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	138.18 7.77 26.77 123.06	
05 12 23 00-0636	LF		2-5/8" Carbon Steel Rounds, ASTM A108 .....81.42 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	175.52 9.87 34.01 156.32	
05 12 23 00-0637	LF		2-3/4" Carbon Steel Rounds, ASTM A108 .....92.66 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	200.16 11.26 38.78 178.27	
05 12 23 00-0638	LF		2-7/8" Carbon Steel Rounds, ASTM A108 .....103.36 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	223.04 12.55 43.21 198.65	
05 12 23 00-0639	LF		3" Carbon Steel Rounds, ASTM A108 .....109.00 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	229.73 12.92 44.51 204.60	
05 12 23 00-0640	LF		3-1/8" Carbon Steel Rounds, ASTM A108 .....114.12 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	234.82 13.21 45.50 209.13	
05 12 23 00-0641	LF		3-1/4" Carbon Steel Rounds, ASTM A108 .....120.67 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	244.42 13.75 47.36 217.68	
05 12 23 00-0642	LF		3-1/2" Carbon Steel Rounds, ASTM A108 .....145.63 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	310.11 17.44 60.08 276.19	
05 12 23 00-0643	LF		3-5/8" Carbon Steel Rounds, ASTM A108 .....161.56 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	346.91 19.51 67.21 308.97	
05 12 23 00-0644	LF		3-3/4" Carbon Steel Rounds, ASTM A108 .....173.55 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	371.10 20.87 71.90 330.51	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0645	LF		4" Carbon Steel Rounds, ASTM A108 .....	194.04	
			For 316 Stainless Steel, Add	422.50	
			For Aluminum, Add	23.77	
			For Galvanized Steel, Add	81.86	
			For 304 Stainless Steel, Add	376.29	
<b>05 12 23 00-0646</b>			<b>Square Stock</b> (05 12 23 00-0408)		
05 12 23 00-0647	LF		3/8" Square Bar Stock.....	1.61	
			For 316 Stainless Steel, Add	1.79	
			For Aluminum, Add	0.10	
			For Galvanized Steel, Add	0.35	
			For 304 Stainless Steel, Add	1.60	
05 12 23 00-0648	LF		1/2" Square Bar Stock.....	2.15	
			For 316 Stainless Steel, Add	3.20	
			For Aluminum, Add	0.18	
			For Galvanized Steel, Add	0.62	
			For 304 Stainless Steel, Add	2.85	
05 12 23 00-0649	LF		5/8" Square Bar Stock.....	2.84	
			For 316 Stainless Steel, Add	4.99	
			For Aluminum, Add	0.28	
			For Galvanized Steel, Add	0.97	
			For 304 Stainless Steel, Add	4.45	
05 12 23 00-0650	LF		3/4" Square Bar Stock.....	3.78	
			For 316 Stainless Steel, Add	7.20	
			For Aluminum, Add	0.41	
			For Galvanized Steel, Add	1.40	
			For 304 Stainless Steel, Add	6.41	
05 12 23 00-0651	LF		7/8" Square Bar Stock.....	4.90	
			For 316 Stainless Steel, Add	10.05	
			For Aluminum, Add	0.57	
			For Galvanized Steel, Add	1.95	
			For 304 Stainless Steel, Add	8.95	
05 12 23 00-0652	LF		1" Square Bar Stock.....	6.09	
			For 316 Stainless Steel, Add	12.83	
			For Aluminum, Add	0.72	
			For Galvanized Steel, Add	2.49	
			For 304 Stainless Steel, Add	11.43	
05 12 23 00-0653	LF		1-1/4" Square Bar Stock.....	9.53	
			For 316 Stainless Steel, Add	20.03	
			For Aluminum, Add	1.13	
			For Galvanized Steel, Add	3.88	
			For 304 Stainless Steel, Add	17.84	
05 12 23 00-0654	LF		1-1/2" Square Bar Stock.....	13.60	
			For 316 Stainless Steel, Add	28.86	
			For Aluminum, Add	1.62	
			For Galvanized Steel, Add	5.59	
			For 304 Stainless Steel, Add	25.71	
05 12 23 00-0655	LF		1-3/4" Square Bar Stock.....	20.19	
			For 316 Stainless Steel, Add	40.16	
			For Aluminum, Add	2.26	
			For Galvanized Steel, Add	7.78	
			For 304 Stainless Steel, Add	35.77	
05 12 23 00-0656	LF		2" Square Bar Stock.....	28.88	
			For 316 Stainless Steel, Add	51.36	
			For Aluminum, Add	2.89	
			For Galvanized Steel, Add	9.95	
			For 304 Stainless Steel, Add	45.74	
<b>05 12 23 00-0657</b>			<b>Steel Tubing</b> (05 12 23 00-0408)		
			Note: General purpose low-carbon steel.		
<b>05 12 23 00-0658</b>			<b>Square Steel Tubing</b> (05 12 23 00-0657)		
<b>05 12 23 00-0659</b>			<b>0.06" Wall Thickness</b> (05 12 23 00-0658)		
05 12 23 00-0660	LF		1/2" x 1/2" x 0.06" Square Steel Tubing .....	2.12	0.49
			For >100 To 250, Deduct	-0.05	
			For >250 To 500, Deduct	-0.10	
			For >500 To 1,000, Deduct	-0.17	
			For >1,000, Deduct	-0.24	
			For 316 Stainless Steel, Add	4.70	
			For Aluminum, Add	0.26	
			For Galvanized Steel, Add	0.91	
			For 304 Stainless Steel, Add	4.19	
05 12 23 00-0661	LF		3/4" x 3/4" x 0.06" Square Steel Tubing .....	3.29	0.77
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.27	
			For >1,000, Deduct	-0.38	
			For 316 Stainless Steel, Add	7.20	
			For Aluminum, Add	0.41	
			For Galvanized Steel, Add	1.40	
			For 304 Stainless Steel, Add	6.41	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0662 LF 1" x 1" x 0.06" Square Steel Tubing .....	4.41	1.41
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.51	
For 316 Stainless Steel, Add	9.60	
For Aluminum, Add	0.54	
For Galvanized Steel, Add	1.86	
For 304 Stainless Steel, Add	8.55	
05 12 23 00-0663 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	5.83	1.34
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.66	
For 316 Stainless Steel, Add	12.96	
For Aluminum, Add	0.73	
For Galvanized Steel, Add	2.51	
For 304 Stainless Steel, Add	11.54	
05 12 23 00-0664 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	6.90	1.62
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.79	
For 316 Stainless Steel, Add	15.20	
For Aluminum, Add	0.86	
For Galvanized Steel, Add	2.95	
For 304 Stainless Steel, Add	13.54	
<b>05 12 23 00-0665 0.083" Wall Thickness</b> (05 12 23 00-0658)		
05 12 23 00-0666 LF 3/4" x 3/4" x 0.083" Square Steel Tubing .....	3.82	0.91
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.44	
For 316 Stainless Steel, Add	8.35	
For Aluminum, Add	0.47	
For Galvanized Steel, Add	1.62	
For 304 Stainless Steel, Add	7.44	
05 12 23 00-0667 LF 1" x 1" x 0.083" Square Steel Tubing .....	5.56	1.25
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.62	
For 316 Stainless Steel, Add	12.48	
For Aluminum, Add	0.70	
For Galvanized Steel, Add	2.42	
For 304 Stainless Steel, Add	11.12	
05 12 23 00-0668 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	6.71	1.59
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.55	
For >1,000, Deduct	-0.77	
For 316 Stainless Steel, Add	14.72	
For Aluminum, Add	0.83	
For Galvanized Steel, Add	2.85	
For 304 Stainless Steel, Add	13.11	
05 12 23 00-0669 LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	8.12	1.92
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.93	
For 316 Stainless Steel, Add	17.76	
For Aluminum, Add	1.00	
For Galvanized Steel, Add	3.44	
For 304 Stainless Steel, Add	15.82	
05 12 23 00-0670 LF 2" x 2" x 0.083" Square Steel Tubing .....	10.41	2.57
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.21	
For 316 Stainless Steel, Add	22.37	
For Aluminum, Add	1.26	
For Galvanized Steel, Add	4.33	
For 304 Stainless Steel, Add	19.92	

05 12 23 00-0671 0.12" Wall Thickness (05 12 23 00-0658)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0672	LF		1" x 1" x 0.12" Square Steel Tubing .....	6.12	1.48
			<i>For &gt;100 To 250, Deduct</i>	-0.15	
			<i>For &gt;250 To 500, Deduct</i>	-0.30	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.50	
			<i>For &gt;1,000, Deduct</i>	-0.71	
			<i>For 316 Stainless Steel, Add</i>	13.28	
			<i>For Aluminum, Add</i>	0.75	
			<i>For Galvanized Steel, Add</i>	2.57	
			<i>For 304 Stainless Steel, Add</i>	11.83	
05 12 23 00-0673	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing .....	7.90	1.90
			<i>For &gt;100 To 250, Deduct</i>	-0.19	
			<i>For &gt;250 To 500, Deduct</i>	-0.39	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.65	
			<i>For &gt;1,000, Deduct</i>	-0.91	
			<i>For 316 Stainless Steel, Add</i>	17.15	
			<i>For Aluminum, Add</i>	0.96	
			<i>For Galvanized Steel, Add</i>	3.32	
			<i>For 304 Stainless Steel, Add</i>	15.28	
05 12 23 00-0674	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing .....	9.70	2.32
			<i>For &gt;100 To 250, Deduct</i>	-0.23	
			<i>For &gt;250 To 500, Deduct</i>	-0.48	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.80	
			<i>For &gt;1,000, Deduct</i>	-1.12	
			<i>For 316 Stainless Steel, Add</i>	21.12	
			<i>For Aluminum, Add</i>	1.19	
			<i>For Galvanized Steel, Add</i>	4.09	
			<i>For 304 Stainless Steel, Add</i>	18.81	
05 12 23 00-0675	LF		2" x 2" x 0.12" Square Steel Tubing .....	13.13	3.17
			<i>For &gt;100 To 250, Deduct</i>	-0.32	
			<i>For &gt;250 To 500, Deduct</i>	-0.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.08	
			<i>For &gt;1,000, Deduct</i>	-1.51	
			<i>For 316 Stainless Steel, Add</i>	28.48	
			<i>For Aluminum, Add</i>	1.60	
			<i>For Galvanized Steel, Add</i>	5.52	
			<i>For 304 Stainless Steel, Add</i>	25.37	
<b>05 12 23 00-0676</b>			<b>1/8" Wall Thickness</b> (05 12 23 00-0658)		
05 12 23 00-0677	LF		2" x 2" x 1/8" Square Steel Tubing .....	11.81	3.29
			<i>For &gt;100 To 250, Deduct</i>	-0.33	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.03	
			<i>For &gt;1,000, Deduct</i>	-1.43	
			<i>For 316 Stainless Steel, Add</i>	23.74	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.60	
			<i>For 304 Stainless Steel, Add</i>	21.15	
05 12 23 00-0678	LF		2-1/2" x 2-1/2" x 1/8" Square Steel Tubing .....	15.57	4.17
			<i>For &gt;100 To 250, Deduct</i>	-0.42	
			<i>For &gt;250 To 500, Deduct</i>	-0.81	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.33	
			<i>For &gt;1,000, Deduct</i>	-1.86	
			<i>For 316 Stainless Steel, Add</i>	32.06	
			<i>For Aluminum, Add</i>	1.80	
			<i>For Galvanized Steel, Add</i>	6.21	
			<i>For 304 Stainless Steel, Add</i>	28.56	
05 12 23 00-0679	LF		3" x 3" x 1/8" Square Steel Tubing .....	18.25	5.04
			<i>For &gt;100 To 250, Deduct</i>	-0.50	
			<i>For &gt;250 To 500, Deduct</i>	-0.96	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.58	
			<i>For &gt;1,000, Deduct</i>	-2.21	
			<i>For 316 Stainless Steel, Add</i>	36.90	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.15	
			<i>For 304 Stainless Steel, Add</i>	32.86	
05 12 23 00-0680	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing .....	21.15	5.93
			<i>For &gt;100 To 250, Deduct</i>	-0.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.85	
			<i>For &gt;1,000, Deduct</i>	-2.57	
			<i>For 316 Stainless Steel, Add</i>	42.40	
			<i>For Aluminum, Add</i>	2.39	
			<i>For Galvanized Steel, Add</i>	8.22	
			<i>For 304 Stainless Steel, Add</i>	37.76	
05 12 23 00-0681	LF		4" x 4" x 1/8" Square Steel Tubing .....	23.30	6.80
			<i>For &gt;100 To 250, Deduct</i>	-0.68	
			<i>For &gt;250 To 500, Deduct</i>	-1.26	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.07	
			<i>For &gt;1,000, Deduct</i>	-2.88	
			<i>For 316 Stainless Steel, Add</i>	45.54	
			<i>For Aluminum, Add</i>	2.56	
			<i>For Galvanized Steel, Add</i>	8.82	
			<i>For 304 Stainless Steel, Add</i>	40.56	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 12 23 00-0682    3/16" Wall Thickness</b> <small>(05 12 23 00-0658)</small>		
05 12 23 00-0683    LF    2" x 2" x 3/16" Square Steel Tubing .....	13.39	3.71
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.16	
For >1,000, Deduct	-1.62	
For 316 Stainless Steel, Add	27.01	
For Aluminum, Add	1.52	
For Galvanized Steel, Add	5.23	
For 304 Stainless Steel, Add	24.05	
05 12 23 00-0684    LF    2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	17.34	4.80
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.51	
For >1,000, Deduct	-2.10	
For 316 Stainless Steel, Add	34.98	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.15	
05 12 23 00-0685    LF    3" x 3" x 3/16" Square Steel Tubing .....	21.30	5.91
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.85	
For >1,000, Deduct	-2.58	
For 316 Stainless Steel, Add	42.98	
For Aluminum, Add	2.42	
For Galvanized Steel, Add	8.33	
For 304 Stainless Steel, Add	38.28	
05 12 23 00-0686    LF    3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	25.27	7.00
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.20	
For >1,000, Deduct	-3.06	
For 316 Stainless Steel, Add	50.98	
For Aluminum, Add	2.87	
For Galvanized Steel, Add	9.88	
For 304 Stainless Steel, Add	45.40	
05 12 23 00-0687    LF    4" x 4" x 3/16" Square Steel Tubing .....	29.21	8.09
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.54	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.54	
For 316 Stainless Steel, Add	58.91	
For Aluminum, Add	3.31	
For Galvanized Steel, Add	11.41	
For 304 Stainless Steel, Add	52.47	
05 12 23 00-0688    LF    4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	33.17	9.20
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.88	
For >1,000, Deduct	-4.02	
For 316 Stainless Steel, Add	66.94	
For Aluminum, Add	3.77	
For Galvanized Steel, Add	12.97	
For 304 Stainless Steel, Add	59.62	
05 12 23 00-0689    LF    5" x 5" x 3/16" Square Steel Tubing .....	37.11	10.28
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.96	
For >500 To 1,000, Deduct	-3.23	
For >1,000, Deduct	-4.50	
For 316 Stainless Steel, Add	74.88	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.51	
For 304 Stainless Steel, Add	66.69	
05 12 23 00-0690    LF    6" x 6" x 3/16" Square Steel Tubing .....	45.04	12.49
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-2.37	
For >500 To 1,000, Deduct	-3.92	
For >1,000, Deduct	-5.46	
For 316 Stainless Steel, Add	90.88	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.61	
For 304 Stainless Steel, Add	80.94	
<b>05 12 23 00-0691    1/4" Wall Thickness</b> <small>(05 12 23 00-0658)</small>		
05 12 23 00-0692    LF    2" x 2" x 1/4" Square Steel Tubing.....	14.29	3.72
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.73	
For >500 To 1,000, Deduct	-1.21	
For >1,000, Deduct	-1.69	
For 316 Stainless Steel, Add	29.86	
For Aluminum, Add	1.68	
For Galvanized Steel, Add	5.78	
For 304 Stainless Steel, Add	26.59	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0693	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	18.79	4.89
			<i>For &gt;100 To 250, Deduct</i>	-0.49	
			<i>For &gt;250 To 500, Deduct</i>	-0.96	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.59	
			<i>For &gt;1,000, Deduct</i>	-2.22	
			<i>For 316 Stainless Steel, Add</i>	39.26	
			<i>For Aluminum, Add</i>	2.21	
			<i>For Galvanized Steel, Add</i>	7.61	
			<i>For 304 Stainless Steel, Add</i>	34.97	
05 12 23 00-0694	LF		3" x 3" x 1/4" Square Steel Tubing.....	23.28	6.06
			<i>For &gt;100 To 250, Deduct</i>	-0.61	
			<i>For &gt;250 To 500, Deduct</i>	-1.19	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.97	
			<i>For &gt;1,000, Deduct</i>	-2.76	
			<i>For 316 Stainless Steel, Add</i>	48.64	
			<i>For Aluminum, Add</i>	2.74	
			<i>For Galvanized Steel, Add</i>	9.42	
			<i>For 304 Stainless Steel, Add</i>	43.32	
05 12 23 00-0695	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	27.76	7.22
			<i>For &gt;100 To 250, Deduct</i>	-0.72	
			<i>For &gt;250 To 500, Deduct</i>	-1.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.35	
			<i>For &gt;1,000, Deduct</i>	-3.29	
			<i>For 316 Stainless Steel, Add</i>	58.02	
			<i>For Aluminum, Add</i>	3.26	
			<i>For Galvanized Steel, Add</i>	11.24	
			<i>For 304 Stainless Steel, Add</i>	51.67	
05 12 23 00-0696	LF		4" x 4" x 1/4" Square Steel Tubing.....	32.26	8.39
			<i>For &gt;100 To 250, Deduct</i>	-0.84	
			<i>For &gt;250 To 500, Deduct</i>	-1.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.73	
			<i>For &gt;1,000, Deduct</i>	-3.82	
			<i>For 316 Stainless Steel, Add</i>	67.42	
			<i>For Aluminum, Add</i>	3.79	
			<i>For Galvanized Steel, Add</i>	13.06	
			<i>For 304 Stainless Steel, Add</i>	60.05	
05 12 23 00-0697	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	36.75	9.56
			<i>For &gt;100 To 250, Deduct</i>	-0.96	
			<i>For &gt;250 To 500, Deduct</i>	-1.88	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.11	
			<i>For &gt;1,000, Deduct</i>	-4.35	
			<i>For 316 Stainless Steel, Add</i>	76.80	
			<i>For Aluminum, Add</i>	4.32	
			<i>For Galvanized Steel, Add</i>	14.88	
			<i>For 304 Stainless Steel, Add</i>	68.40	
05 12 23 00-0698	LF		5" x 5" x 1/4" Square Steel Tubing.....	41.27	10.74
			<i>For &gt;100 To 250, Deduct</i>	-1.07	
			<i>For &gt;250 To 500, Deduct</i>	-2.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.50	
			<i>For &gt;1,000, Deduct</i>	-4.89	
			<i>For 316 Stainless Steel, Add</i>	86.24	
			<i>For Aluminum, Add</i>	4.85	
			<i>For Galvanized Steel, Add</i>	16.71	
			<i>For 304 Stainless Steel, Add</i>	76.81	
05 12 23 00-0699	LF		6" x 6" x 1/4" Square Steel Tubing.....	50.25	13.07
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-2.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.26	
			<i>For &gt;1,000, Deduct</i>	-5.95	
			<i>For 316 Stainless Steel, Add</i>	104.99	
			<i>For Aluminum, Add</i>	5.91	
			<i>For Galvanized Steel, Add</i>	20.34	
			<i>For 304 Stainless Steel, Add</i>	93.51	
05 12 23 00-0700			Rectangular Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0701			3/16" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0702	LF		3" x 2" x 3/16" Square Steel Tubing.....	17.34	4.80
			<i>For &gt;100 To 250, Deduct</i>	-0.48	
			<i>For &gt;250 To 500, Deduct</i>	-0.91	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.51	
			<i>For &gt;1,000, Deduct</i>	-2.10	
			<i>For 316 Stainless Steel, Add</i>	34.98	
			<i>For Aluminum, Add</i>	1.97	
			<i>For Galvanized Steel, Add</i>	6.78	
			<i>For 304 Stainless Steel, Add</i>	31.15	
05 12 23 00-0703	LF		4" x 2" x 3/16" Square Steel Tubing.....	21.30	5.91
			<i>For &gt;100 To 250, Deduct</i>	-0.59	
			<i>For &gt;250 To 500, Deduct</i>	-1.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.85	
			<i>For &gt;1,000, Deduct</i>	-2.58	
			<i>For 316 Stainless Steel, Add</i>	42.98	
			<i>For Aluminum, Add</i>	2.42	
			<i>For Galvanized Steel, Add</i>	8.33	
			<i>For 304 Stainless Steel, Add</i>	38.28	





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0704 LF 4" x 3" x 3/16" Square Steel Tubing .....	25.27	7.00
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.20	
For >1,000, Deduct	-3.06	
For 316 Stainless Steel, Add	50.98	
For Aluminum, Add	2.87	
For Galvanized Steel, Add	9.88	
For 304 Stainless Steel, Add	45.40	
05 12 23 00-0705 LF 5" x 2" x 3/16" Square Steel Tubing .....	25.27	7.00
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.20	
For >1,000, Deduct	-3.06	
For 316 Stainless Steel, Add	50.98	
For Aluminum, Add	2.87	
For Galvanized Steel, Add	9.88	
For 304 Stainless Steel, Add	45.40	
05 12 23 00-0706 LF 5" x 3" x 3/16" Square Steel Tubing .....	29.21	8.09
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.54	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.54	
For 316 Stainless Steel, Add	58.91	
For Aluminum, Add	3.31	
For Galvanized Steel, Add	11.41	
For 304 Stainless Steel, Add	52.47	
05 12 23 00-0707 LF 5" x 4" x 3/16" Square Steel Tubing .....	33.17	9.20
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.88	
For >1,000, Deduct	-4.02	
For 316 Stainless Steel, Add	66.94	
For Aluminum, Add	3.77	
For Galvanized Steel, Add	12.97	
For 304 Stainless Steel, Add	59.62	
05 12 23 00-0708 LF 6" x 2" x 3/16" Square Steel Tubing .....	29.21	8.09
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.54	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.54	
For 316 Stainless Steel, Add	58.91	
For Aluminum, Add	3.31	
For Galvanized Steel, Add	11.41	
For 304 Stainless Steel, Add	52.47	
05 12 23 00-0709 LF 6" x 3" x 3/16" Square Steel Tubing .....	33.17	9.20
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.88	
For >1,000, Deduct	-4.02	
For 316 Stainless Steel, Add	66.94	
For Aluminum, Add	3.77	
For Galvanized Steel, Add	12.97	
For 304 Stainless Steel, Add	59.62	
05 12 23 00-0710 LF 6" x 4" x 3/16" Square Steel Tubing .....	37.11	10.28
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.96	
For >500 To 1,000, Deduct	-3.23	
For >1,000, Deduct	-4.50	
For 316 Stainless Steel, Add	74.88	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.51	
For 304 Stainless Steel, Add	66.69	
<b>05 12 23 00-0711 1/4" Wall Thickness</b> <small>(05 12 23 00-0700)</small>		
05 12 23 00-0712 LF 3" x 2" x 1/4" Square Steel Tubing .....	18.79	4.89
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.59	
For >1,000, Deduct	-2.22	
For 316 Stainless Steel, Add	39.26	
For Aluminum, Add	2.21	
For Galvanized Steel, Add	7.61	
For 304 Stainless Steel, Add	34.97	
05 12 23 00-0713 LF 4" x 2" x 1/4" Square Steel Tubing .....	23.28	6.06
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.97	
For >1,000, Deduct	-2.76	
For 316 Stainless Steel, Add	48.64	
For Aluminum, Add	2.74	
For Galvanized Steel, Add	9.42	
For 304 Stainless Steel, Add	43.32	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0714 LF 4" x 3" x 1/4" Square Steel Tubing .....	27.76	7.22
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.42	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.29	
For 316 Stainless Steel, Add	58.02	
For Aluminum, Add	3.26	
For Galvanized Steel, Add	11.24	
For 304 Stainless Steel, Add	51.67	
05 12 23 00-0715 LF 5" x 2" x 1/4" Square Steel Tubing .....	27.76	7.22
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.42	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.29	
For 316 Stainless Steel, Add	58.02	
For Aluminum, Add	3.26	
For Galvanized Steel, Add	11.24	
For 304 Stainless Steel, Add	51.67	
05 12 23 00-0716 LF 5" x 3" x 1/4" Square Steel Tubing .....	32.26	8.39
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.73	
For >1,000, Deduct	-3.82	
For 316 Stainless Steel, Add	67.42	
For Aluminum, Add	3.79	
For Galvanized Steel, Add	13.06	
For 304 Stainless Steel, Add	60.05	
05 12 23 00-0717 LF 5" x 4" x 1/4" Square Steel Tubing .....	36.75	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.11	
For >1,000, Deduct	-4.35	
For 316 Stainless Steel, Add	76.80	
For Aluminum, Add	4.32	
For Galvanized Steel, Add	14.88	
For 304 Stainless Steel, Add	68.40	
05 12 23 00-0718 LF 6" x 2" x 1/4" Square Steel Tubing .....	32.26	8.39
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.73	
For >1,000, Deduct	-3.82	
For 316 Stainless Steel, Add	67.42	
For Aluminum, Add	3.79	
For Galvanized Steel, Add	13.06	
For 304 Stainless Steel, Add	60.05	
05 12 23 00-0719 LF 6" x 3" x 1/4" Square Steel Tubing .....	36.75	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.11	
For >1,000, Deduct	-4.35	
For 316 Stainless Steel, Add	76.80	
For Aluminum, Add	4.32	
For Galvanized Steel, Add	14.88	
For 304 Stainless Steel, Add	68.40	
05 12 23 00-0720 LF 6" x 4" x 1/4" Square Steel Tubing .....	41.27	10.74
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-2.11	
For >500 To 1,000, Deduct	-3.50	
For >1,000, Deduct	-4.89	
For 316 Stainless Steel, Add	86.24	
For Aluminum, Add	4.85	
For Galvanized Steel, Add	16.71	
For 304 Stainless Steel, Add	76.81	
05 12 23 00-0721 Round Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0722 0.065" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0723 LF 1" Diameter x 0.065" Round Steel Tubing .....	3.81	0.90
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.43	
For 316 Stainless Steel, Add	8.38	
For Aluminum, Add	0.47	
For Galvanized Steel, Add	1.62	
For 304 Stainless Steel, Add	7.47	
05 12 23 00-0724 LF 1-1/4" Diameter x 0.065" Round Steel Tubing .....	4.84	1.13
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	10.66	
For Aluminum, Add	0.60	
For Galvanized Steel, Add	2.06	
For 304 Stainless Steel, Add	9.49	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0725 LF 1-1/2" Diameter x 0.065" Round Steel Tubing .....	5.85	1.37
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.67	
For 316 Stainless Steel, Add	12.90	
For Aluminum, Add	0.73	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	11.49	
05 12 23 00-0726 LF 2" Diameter x 0.065" Round Steel Tubing.....	7.89	1.85
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.90	
For 316 Stainless Steel, Add	17.38	
For Aluminum, Add	0.98	
For Galvanized Steel, Add	3.37	
For 304 Stainless Steel, Add	15.48	
05 12 23 00-0727 LF 2-1/2" Diameter x 0.065" Round Steel Tubing .....	9.93	2.32
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.81	
For >1,000, Deduct	-1.13	
For 316 Stainless Steel, Add	21.86	
For Aluminum, Add	1.23	
For Galvanized Steel, Add	4.23	
For 304 Stainless Steel, Add	19.47	
05 12 23 00-0728 LF 3" Diameter x 0.065" Round Steel Tubing.....	11.96	2.80
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.97	
For >1,000, Deduct	-1.36	
For 316 Stainless Steel, Add	26.34	
For Aluminum, Add	1.48	
For Galvanized Steel, Add	5.10	
For 304 Stainless Steel, Add	23.46	
05 12 23 00-0729 LF 3-1/2" Diameter x 0.065" Round Steel Tubing .....	14.02	3.28
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.14	
For >1,000, Deduct	-1.60	
For 316 Stainless Steel, Add	30.85	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	5.98	
For 304 Stainless Steel, Add	27.47	
05 12 23 00-0730 LF 4" Diameter x 0.065" Round Steel Tubing.....	16.05	3.75
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.83	
For 316 Stainless Steel, Add	35.33	
For Aluminum, Add	1.99	
For Galvanized Steel, Add	6.84	
For 304 Stainless Steel, Add	31.46	
<b>05 12 23 00-0731 0.083" Wall Thickness</b> (05 12 23 00-0721)		
05 12 23 00-0732 LF 1" Diameter x 0.083" Round Steel Tubing.....	4.15	0.98
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.34	
For >1,000, Deduct	-0.48	
For 316 Stainless Steel, Add	9.09	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.76	
For 304 Stainless Steel, Add	8.09	
05 12 23 00-0733 LF 1-1/4" Diameter x 0.083" Round Steel Tubing .....	5.27	1.25
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.43	
For >1,000, Deduct	-0.60	
For 316 Stainless Steel, Add	11.55	
For Aluminum, Add	0.65	
For Galvanized Steel, Add	2.24	
For 304 Stainless Steel, Add	10.29	
05 12 23 00-0734 LF 1-1/2" Diameter x 0.083" Round Steel Tubing .....	6.39	1.51
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.52	
For >1,000, Deduct	-0.73	
For 316 Stainless Steel, Add	14.02	
For Aluminum, Add	0.79	
For Galvanized Steel, Add	2.72	
For 304 Stainless Steel, Add	12.48	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0735 LF 2" Diameter x 0.083" Round Steel Tubing.....	8.66	2.04
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.71	
For >1,000, Deduct	-0.99	
For 316 Stainless Steel, Add	18.98	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.68	
For 304 Stainless Steel, Add	16.90	
05 12 23 00-0736 LF 2-1/2" Diameter x 0.083" Round Steel Tubing.....	10.92	2.58
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.25	
For 316 Stainless Steel, Add	23.94	
For Aluminum, Add	1.35	
For Galvanized Steel, Add	4.64	
For 304 Stainless Steel, Add	21.32	
05 12 23 00-0737 LF 3" Diameter x 0.083" Round Steel Tubing.....	13.18	3.11
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-1.07	
For >1,000, Deduct	-1.51	
For 316 Stainless Steel, Add	28.90	
For Aluminum, Add	1.63	
For Galvanized Steel, Add	5.60	
For 304 Stainless Steel, Add	25.74	
05 12 23 00-0738 LF 3-1/2" Diameter x 0.083" Round Steel Tubing.....	15.43	3.64
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.26	
For >1,000, Deduct	-1.76	
For 316 Stainless Steel, Add	33.82	
For Aluminum, Add	1.90	
For Galvanized Steel, Add	6.55	
For 304 Stainless Steel, Add	30.12	
05 12 23 00-0739 LF 4" Diameter x 0.083" Round Steel Tubing.....	17.68	4.18
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.44	
For >1,000, Deduct	-2.02	
For 316 Stainless Steel, Add	38.78	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.51	
For 304 Stainless Steel, Add	34.54	
<b>05 12 23 00-0740 0.125" Wall Thickness (05 12 23 00-0721)</b>		
05 12 23 00-0741 LF 2" Diameter x 0.125" Round Steel Tubing.....	9.26	2.59
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.81	
For >1,000, Deduct	-1.12	
For 316 Stainless Steel, Add	18.62	
For Aluminum, Add	1.05	
For Galvanized Steel, Add	3.61	
For 304 Stainless Steel, Add	16.59	
05 12 23 00-0742 LF 2-1/2" Diameter x 0.125" Round Steel Tubing.....	11.73	3.27
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-1.02	
For >1,000, Deduct	-1.42	
For 316 Stainless Steel, Add	23.58	
For Aluminum, Add	1.33	
For Galvanized Steel, Add	4.57	
For 304 Stainless Steel, Add	21.00	
05 12 23 00-0743 LF 3" Diameter x 0.125" Round Steel Tubing.....	14.20	3.95
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.72	
For 316 Stainless Steel, Add	28.58	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.54	
For 304 Stainless Steel, Add	25.45	
05 12 23 00-0744 LF 3-1/2" Diameter x 0.125" Round Steel Tubing.....	16.68	4.65
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.45	
For >1,000, Deduct	-2.03	
For 316 Stainless Steel, Add	33.54	
For Aluminum, Add	1.89	
For Galvanized Steel, Add	6.50	
For 304 Stainless Steel, Add	29.87	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0745 LF 4" Diameter x 0.125" Round Steel Tubing.....	19.14	5.33
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-1.01	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.32	
For 316 Stainless Steel, Add	38.50	
For Aluminum, Add	2.17	
For Galvanized Steel, Add	7.46	
For 304 Stainless Steel, Add	34.29	
<b>05 12 23 00-0746 Flat Steel Bar</b> (05 12 23 00-0408)		
<b>05 12 23 00-0747 1/8" Thick</b> (05 12 23 00-0746)		
05 12 23 00-0748 LF 1/8" Thick x 1" Wide Flat Steel Bar .....	2.46	1.29
For 316 Stainless Steel, Add	1.73	
For Aluminum, Add	0.10	
For Galvanized Steel, Add	0.33	
For 304 Stainless Steel, Add	1.54	
05 12 23 00-0749 LF 1/8" Thick x 2" Wide Flat Steel Bar .....	3.80	1.92
For 316 Stainless Steel, Add	2.91	
For Aluminum, Add	0.16	
For Galvanized Steel, Add	0.56	
For 304 Stainless Steel, Add	2.59	
05 12 23 00-0750 LF 1/8" Thick x 4" Wide Flat Steel Bar .....	5.71	2.72
For 316 Stainless Steel, Add	5.28	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.02	
For 304 Stainless Steel, Add	4.70	
05 12 23 00-0751 LF 1/8" Thick x 6" Wide Flat Steel Bar .....	7.74	3.68
For 316 Stainless Steel, Add	7.10	
For Aluminum, Add	0.40	
For Galvanized Steel, Add	1.38	
For 304 Stainless Steel, Add	6.33	
<b>05 12 23 00-0752 3/16" Thick</b> (05 12 23 00-0746)		
05 12 23 00-0753 LF 3/16" Thick x 1" Wide Flat Steel Bar .....	3.22	1.59
For 316 Stainless Steel, Add	2.66	
For Aluminum, Add	0.15	
For Galvanized Steel, Add	0.51	
For 304 Stainless Steel, Add	2.37	
05 12 23 00-0754 LF 3/16" Thick x 2" Wide Flat Steel Bar .....	5.02	2.39
For 316 Stainless Steel, Add	4.58	
For Aluminum, Add	0.26	
For Galvanized Steel, Add	0.89	
For 304 Stainless Steel, Add	4.08	
05 12 23 00-0755 LF 3/16" Thick x 4" Wide Flat Steel Bar .....	6.53	2.75
For 316 Stainless Steel, Add	7.71	
For Aluminum, Add	0.43	
For Galvanized Steel, Add	1.49	
For 304 Stainless Steel, Add	6.87	
05 12 23 00-0756 LF 3/16" Thick x 6" Wide Flat Steel Bar .....	9.05	3.81
For 316 Stainless Steel, Add	10.69	
For Aluminum, Add	0.60	
For Galvanized Steel, Add	2.07	
For 304 Stainless Steel, Add	9.52	
<b>05 12 23 00-0757 1/4" Thick</b> (05 12 23 00-0746)		
05 12 23 00-0758 LF 1/4" Thick x 1" Wide Flat Steel Bar .....	3.35	1.69
For 316 Stainless Steel, Add	2.62	
For Aluminum, Add	0.15	
For Galvanized Steel, Add	0.51	
For 304 Stainless Steel, Add	2.34	
05 12 23 00-0759 LF 1/4" Thick x 2" Wide Flat Steel Bar .....	5.45	2.53
For 316 Stainless Steel, Add	5.31	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.03	
For 304 Stainless Steel, Add	4.73	
05 12 23 00-0760 LF 1/4" Thick x 4" Wide Flat Steel Bar .....	7.55	2.89
For 316 Stainless Steel, Add	10.27	
For Aluminum, Add	0.58	
For Galvanized Steel, Add	1.99	
For 304 Stainless Steel, Add	9.15	
05 12 23 00-0761 LF 1/4" Thick x 6" Wide Flat Steel Bar .....	10.96	4.27
For 316 Stainless Steel, Add	14.53	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.81	
For 304 Stainless Steel, Add	12.94	
<b>05 12 23 00-0762 3/8" Thick</b> (05 12 23 00-0746)		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0763	LF		3/8" Thick x 1" Wide Flat Steel Bar .....	4.13	1.90
			<i>For 316 Stainless Steel, Add</i>	4.10	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.79	
			<i>For 304 Stainless Steel, Add</i>	3.65	
05 12 23 00-0764	LF		3/8" Thick x 2" Wide Flat Steel Bar .....	6.64	2.84
			<i>For 316 Stainless Steel, Add</i>	7.58	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.47	
			<i>For 304 Stainless Steel, Add</i>	6.75	
05 12 23 00-0765	LF		3/8" Thick x 4" Wide Flat Steel Bar .....	9.62	3.24
			<i>For 316 Stainless Steel, Add</i>	15.17	
			<i>For Aluminum, Add</i>	0.85	
			<i>For Galvanized Steel, Add</i>	2.94	
			<i>For 304 Stainless Steel, Add</i>	13.51	
05 12 23 00-0766	LF		3/8" Thick x 6" Wide Flat Steel Bar .....	13.89	4.80
			<i>For 316 Stainless Steel, Add</i>	21.34	
			<i>For Aluminum, Add</i>	1.20	
			<i>For Galvanized Steel, Add</i>	4.14	
			<i>For 304 Stainless Steel, Add</i>	19.01	
<b>05 12 23 00-0767</b>			<b>1/2" Thick</b> <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768	LF		1/2" Thick x 1" Wide Flat Steel Bar .....	4.79	2.08
			<i>For 316 Stainless Steel, Add</i>	5.28	
			<i>For Aluminum, Add</i>	0.30	
			<i>For Galvanized Steel, Add</i>	1.02	
			<i>For 304 Stainless Steel, Add</i>	4.70	
05 12 23 00-0769	LF		1/2" Thick x 2" Wide Flat Steel Bar .....	7.73	3.14
			<i>For 316 Stainless Steel, Add</i>	9.70	
			<i>For Aluminum, Add</i>	0.55	
			<i>For Galvanized Steel, Add</i>	1.88	
			<i>For 304 Stainless Steel, Add</i>	8.64	
05 12 23 00-0770	LF		1/2" Thick x 4" Wide Flat Steel Bar .....	10.51	3.56
			<i>For 316 Stainless Steel, Add</i>	16.48	
			<i>For Aluminum, Add</i>	0.93	
			<i>For Galvanized Steel, Add</i>	3.19	
			<i>For 304 Stainless Steel, Add</i>	14.68	
05 12 23 00-0771	LF		1/2" Thick x 6" Wide Flat Steel Bar .....	18.22	5.29
			<i>For 316 Stainless Steel, Add</i>	32.90	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.37	
			<i>For 304 Stainless Steel, Add</i>	29.30	
<b>05 12 23 00-0772</b>			<b>Flat Steel Plate</b> <small>(05 12 23 00-0408)</small>		
05 12 23 00-0773	SF		1/8" Thick Flat Steel Plate .....	12.17	5.52
			<i>For 316 Stainless Steel, Add</i>	12.42	
			<i>For Aluminum, Add</i>	0.70	
			<i>For Galvanized Steel, Add</i>	2.41	
			<i>For 304 Stainless Steel, Add</i>	11.06	
05 12 23 00-0774	SF		3/16" Thick Flat Steel Plate .....	13.44	5.71
			<i>For 316 Stainless Steel, Add</i>	15.52	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.01	
			<i>For 304 Stainless Steel, Add</i>	13.82	
05 12 23 00-0775	SF		1/4" Thick Flat Steel Plate .....	15.81	6.41
			<i>For 316 Stainless Steel, Add</i>	19.81	
			<i>For Aluminum, Add</i>	1.11	
			<i>For Galvanized Steel, Add</i>	3.84	
			<i>For 304 Stainless Steel, Add</i>	17.64	
05 12 23 00-0776	SF		3/8" Thick Flat Steel Plate .....	20.54	7.21
			<i>For 316 Stainless Steel, Add</i>	31.07	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.02	
			<i>For 304 Stainless Steel, Add</i>	27.67	
05 12 23 00-0777	SF		1/2" Thick Flat Steel Plate .....	24.00	7.93
			<i>For 316 Stainless Steel, Add</i>	38.72	
			<i>For Aluminum, Add</i>	2.18	
			<i>For Galvanized Steel, Add</i>	7.50	
			<i>For 304 Stainless Steel, Add</i>	34.49	
05 12 23 00-0778	SF		3/4" Thick Flat Steel Plate .....	37.58	9.82
			<i>For 316 Stainless Steel, Add</i>	72.64	
			<i>For Aluminum, Add</i>	4.09	
			<i>For Galvanized Steel, Add</i>	14.07	
			<i>For 304 Stainless Steel, Add</i>	64.70	
05 12 23 00-0779	SF		1" Thick Flat Steel Plate .....	49.68	12.27
			<i>For 316 Stainless Steel, Add</i>	99.46	
			<i>For Aluminum, Add</i>	5.59	
			<i>For Galvanized Steel, Add</i>	19.27	
			<i>For 304 Stainless Steel, Add</i>	88.58	

**05 14 Structural Aluminum Framing** (05 10)





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 14 13</b>	<b>Architecturally-Exposed Structural Aluminum Framing</b> (05 14)			
<b>05 14 13 00-0001</b>	<b>Rolled Or Plate Shapes</b> (05 14 13)			
	Note: 1" through 10" member.			
05 14 13 00-0002	LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	5.87	0.71	
05 14 13 00-0003	LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	5.20	0.65	
<b>05 14 13 00-0004</b>	<b>Aluminum Extrusions</b> (05 14 13)			
05 14 13 00-0005	LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	10.22	2.93	
05 14 13 00-0006	LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	10.76	2.93	
<b>05 14 13 00-0007</b>	<b>Aluminum Tubing</b> (05 14 13)			
05 14 13 00-0008	LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	11.55	3.10	
05 14 13 00-0009	LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	12.91	5.04	
05 14 13 00-0010	LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.95	5.50	
05 14 13 00-0011	LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	17.27	6.42	
05 14 13 00-0012	LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	19.68	6.87	
05 14 13 00-0013	LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	44.75	8.70	
05 14 13 00-0014	LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	37.39	7.79	
<b>05 14 13 00-0015</b>	<b>Columns</b> (05 14 13)			
	Note: Baked on paint finish, load bearing.			
<b>05 14 13 00-0016</b>	<b>Round Columns</b> (05 14 13 00-0015)			
05 14 13 00-0017	LF 6" Diameter Aluminum Column	35.69	5.94	
05 14 13 00-0018	LF 8" Diameter Aluminum Column	47.44	8.50	
05 14 13 00-0019	LF 10" Diameter Aluminum Column	57.52	9.57	
05 14 13 00-0020	LF 12" Diameter Aluminum Column	84.39	10.01	
05 14 13 00-0021	LF 15" Diameter Aluminum Column	107.19	11.60	
05 14 13 00-0022	EA 6" Diameter Aluminum Base And Cap	68.66	11.07	
05 14 13 00-0023	EA 8" Diameter Aluminum Base And Cap	78.28	11.96	
05 14 13 00-0024	EA 10" Diameter Aluminum Base And Cap	98.04	13.29	
05 14 13 00-0025	EA 12" Diameter Aluminum Base And Cap	165.66	14.18	
05 14 13 00-0026	EA 15" Diameter Aluminum Base And Cap	250.98	15.51	
<b>05 14 13 00-0027</b>	<b>Octagonal Columns</b> (05 14 13 00-0015)			
05 14 13 00-0028	LF 6" Diameter Aluminum Column	39.18	5.94	
05 14 13 00-0029	LF 8" Diameter Aluminum Column	53.53	8.50	
05 14 13 00-0030	LF 10" Diameter Aluminum Column	65.20	9.57	
05 14 13 00-0031	LF 12" Diameter Aluminum Column	97.28	10.01	
05 14 13 00-0032	LF 15" Diameter Aluminum Column	124.00	11.60	
05 14 13 00-0033	EA 6" Diameter Aluminum Base And Cap	77.96	11.07	
05 14 13 00-0034	EA 8" Diameter Aluminum Base And Cap	89.16	11.96	
05 14 13 00-0035	EA 10" Diameter Aluminum Base And Cap	112.33	13.29	
05 14 13 00-0036	EA 12" Diameter Aluminum Base And Cap	193.12	14.18	
05 14 13 00-0037	EA 15" Diameter Aluminum Base And Cap	294.97	15.51	
<b>05 14 13 00-0038</b>	<b>Fluted Columns</b> (05 14 13 00-0015)			
05 14 13 00-0039	LF 6" Diameter Aluminum Column	43.29	5.94	
05 14 13 00-0040	LF 8" Diameter Aluminum Column	59.00	8.50	
05 14 13 00-0041	LF 10" Diameter Aluminum Column	72.11	9.57	
05 14 13 00-0042	LF 12" Diameter Aluminum Column	108.88	10.01	
05 14 13 00-0043	LF 15" Diameter Aluminum Column	139.13	11.60	
05 14 13 00-0044	EA 6" Diameter Aluminum Base And Cap	86.33	11.07	
05 14 13 00-0045	EA 8" Diameter Aluminum Base And Cap	98.94	11.96	
05 14 13 00-0046	EA 10" Diameter Aluminum Base And Cap	125.19	13.29	
05 14 13 00-0047	EA 12" Diameter Aluminum Base And Cap	217.84	14.18	
05 14 13 00-0048	EA 15" Diameter Aluminum Base And Cap	334.57	15.51	
<b>05 14 13 00-0049</b>	<b>Square Columns</b> (05 14 13 00-0015)			
05 14 13 00-0050	LF 6" Aluminum Column	46.10	5.94	
05 14 13 00-0051	LF 8" Aluminum Column	62.74	8.50	
05 14 13 00-0052	LF 10" Aluminum Column	76.84	9.57	
05 14 13 00-0053	LF 12" Aluminum Column	116.82	10.01	
05 14 13 00-0054	LF 15" Aluminum Column	149.48	11.60	
05 14 13 00-0055	EA 6" Aluminum Base And Cap	92.06	11.07	
05 14 13 00-0056	EA 8" Aluminum Base And Cap	105.63	11.96	
05 14 13 00-0057	EA 10" Aluminum Base And Cap	133.99	13.29	
05 14 13 00-0058	EA 12" Aluminum Base And Cap	234.74	14.18	
05 14 13 00-0059	EA 15" Aluminum Base And Cap	361.65	15.51	
<b>05 14 13 00-0060</b>	<b>Ornamental Or Decorative Cap And Bases</b> (05 14 13 00-0015)			
05 14 13 00-0061	EA 8" Corinthian Capital And Base	500.16	13.29	

**05 Metals****05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0062	EA		10" Corinthian Capital And Base.....	734.29	15.51
05 14 13 00-0063	EA		12" Corinthian Capital And Base.....	1,158.67	17.71
05 14 13 00-0064	EA		8" Scamozzi Capital And Base.....	251.23	13.29
05 14 13 00-0065	EA		10" Scamozzi Capital And Base.....	335.59	15.51
05 14 13 00-0066	EA		12" Scamozzi Capital And Base.....	669.30	17.71

**05 15 Wire Rope Assemblies** (05 10)**05 15 16 Steel Wire Rope Assemblies** (05 15)**05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope** (05 15 16)

05 15 16 00-0002	LF		1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.98	0.09
			<i>For &gt;500, Deduct</i>	-0.16	
05 15 16 00-0003	LF		5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.34	0.09
			<i>For &gt;500, Deduct</i>	-0.22	
05 15 16 00-0004	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.60	0.18
			<i>For &gt;500, Deduct</i>	-0.25	
05 15 16 00-0005	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.96	0.18
			<i>For &gt;500, Deduct</i>	-0.30	
05 15 16 00-0006	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.30	0.27
			<i>For &gt;500, Deduct</i>	-0.33	
05 15 16 00-0007	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.83	0.36
			<i>For &gt;500, Deduct</i>	-0.40	
05 15 16 00-0008	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.39	0.36
			<i>For &gt;500, Deduct</i>	-0.48	
05 15 16 00-0009	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.73	0.64
			<i>For &gt;500, Deduct</i>	-0.66	
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.37	0.73
			<i>For &gt;500, Deduct</i>	-0.88	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.99	1.01
			<i>For &gt;500, Deduct</i>	-1.08	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.89	1.29
			<i>For &gt;500, Deduct</i>	-1.33	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.05	1.56
			<i>For &gt;500, Deduct</i>	-1.62	

**05 15 16 00-0014 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope** (05 15 16)

05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.14	0.09
			<i>For &gt;500, Deduct</i>	-0.20	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.50	0.09
			<i>For &gt;500, Deduct</i>	-0.25	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.87	0.18
			<i>For &gt;500, Deduct</i>	-0.30	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.16	0.18
			<i>For &gt;500, Deduct</i>	-0.34	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.60	0.27
			<i>For &gt;500, Deduct</i>	-0.39	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.03	0.36
			<i>For &gt;500, Deduct</i>	-0.44	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.55	0.36
			<i>For &gt;500, Deduct</i>	-0.51	
05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.21	0.64
			<i>For &gt;500, Deduct</i>	-0.75	
05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.73	0.73
			<i>For &gt;500, Deduct</i>	-0.95	
05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.32	1.01
			<i>For &gt;500, Deduct</i>	-1.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.67	1.29
			<i>For &gt;500, Deduct</i>	-1.48	
05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.95	1.56
			<i>For &gt;500, Deduct</i>	-1.80	
<b>05 15 16 00-0027      6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope</b>					
<i>(05 15 16)</i>					
05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	0.92	0.09
			<i>For &gt;500, Deduct</i>	-0.15	
05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.26	0.09
			<i>For &gt;500, Deduct</i>	-0.20	
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.52	0.18
			<i>For &gt;500, Deduct</i>	-0.23	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.81	0.18
			<i>For &gt;500, Deduct</i>	-0.27	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.21	0.27
			<i>For &gt;500, Deduct</i>	-0.31	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.79	0.36
			<i>For &gt;500, Deduct</i>	-0.40	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.28	0.36
			<i>For &gt;500, Deduct</i>	-0.46	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.62	0.64
			<i>For &gt;500, Deduct</i>	-0.63	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.74	0.73
			<i>For &gt;500, Deduct</i>	-0.76	
05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.33	1.01
			<i>For &gt;500, Deduct</i>	-0.95	
<b>05 15 16 00-0038      6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope</b>					
<i>(05 15 16)</i>					
05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.91	0.09
			<i>For &gt;500, Deduct</i>	-0.15	
05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.22	0.09
			<i>For &gt;500, Deduct</i>	-0.19	
05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.52	0.18
			<i>For &gt;500, Deduct</i>	-0.23	
05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.81	0.18
			<i>For &gt;500, Deduct</i>	-0.27	
05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.29	0.27
			<i>For &gt;500, Deduct</i>	-0.33	
05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.75	0.36
			<i>For &gt;500, Deduct</i>	-0.39	
05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.44	0.36
			<i>For &gt;500, Deduct</i>	-0.49	
05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.82	0.64
			<i>For &gt;500, Deduct</i>	-0.67	
05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.33	0.73
			<i>For &gt;500, Deduct</i>	-0.87	
05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.85	1.01
			<i>For &gt;500, Deduct</i>	-1.06	
<b>05 15 16 00-0049      6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope</b>					
<i>(05 15 16)</i>					
05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.70	0.18
			<i>For &gt;500, Deduct</i>	-0.27	
05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.02	0.18
			<i>For &gt;500, Deduct</i>	-0.31	
05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.40	0.27
			<i>For &gt;500, Deduct</i>	-0.35	
05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.21	0.36
			<i>For &gt;500, Deduct</i>	-0.48	
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.58	0.36
			<i>For &gt;500, Deduct</i>	-0.52	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.91	0.64
			<i>For &gt;500, Deduct</i>	-0.69	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	6.35	0.73
			<i>For &gt;500, Deduct</i>	-0.88	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.37	1.01
			<i>For &gt;500, Deduct</i>	-1.16	

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0058 LF 1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	10.17	1.29
<i>For &gt;500, Deduct</i>	-1.39	
05 15 16 00-0059 LF 1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	12.29	1.56
<i>For &gt;500, Deduct</i>	-1.67	
<b>05 15 16 00-0060 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <sup>(05 15 16)</sup></b>		
05 15 16 00-0061 LF 3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	1.74	0.18
<i>For &gt;500, Deduct</i>	-0.28	
05 15 16 00-0062 LF 7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	2.13	0.18
<i>For &gt;500, Deduct</i>	-0.33	
05 15 16 00-0063 LF 1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	2.55	0.27
<i>For &gt;500, Deduct</i>	-0.38	
05 15 16 00-0064 LF 9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	3.53	0.36
<i>For &gt;500, Deduct</i>	-0.54	
05 15 16 00-0065 LF 5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	3.63	0.36
<i>For &gt;500, Deduct</i>	-0.53	
05 15 16 00-0066 LF 3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	5.02	0.64
<i>For &gt;500, Deduct</i>	-0.71	
05 15 16 00-0067 LF 7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	6.67	0.73
<i>For &gt;500, Deduct</i>	-0.94	
05 15 16 00-0068 LF 1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope .....	8.48	1.01
<i>For &gt;500, Deduct</i>	-1.18	
<b>05 15 16 00-0069 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <sup>(05 15 16)</sup></b>		
05 15 16 00-0070 LF 1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	1.73	0.09
<i>For &gt;500, Deduct</i>	-0.31	
05 15 16 00-0071 LF 5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	1.88	0.09
<i>For &gt;500, Deduct</i>	-0.33	
05 15 16 00-0072 LF 3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	2.25	0.18
<i>For &gt;500, Deduct</i>	-0.38	
05 15 16 00-0073 LF 7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	3.01	0.18
<i>For &gt;500, Deduct</i>	-0.51	
05 15 16 00-0074 LF 1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	3.41	0.18
<i>For &gt;500, Deduct</i>	-0.59	
05 15 16 00-0075 LF 9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	4.04	0.36
<i>For &gt;500, Deduct</i>	-0.65	
05 15 16 00-0076 LF 5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	4.82	0.36
<i>For &gt;500, Deduct</i>	-0.77	
05 15 16 00-0077 LF 3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope .....	6.65	0.55
<i>For &gt;500, Deduct</i>	-1.05	
<b>05 15 16 00-0078 7x7, Galvanized Finish, Aircraft Cable <sup>(05 15 16)</sup></b>		
05 15 16 00-0079 LF 1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....	0.23	0.06
<i>For &gt;500, Deduct</i>	-0.03	
05 15 16 00-0080 LF 3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....	0.26	0.07
<i>For &gt;500, Deduct</i>	-0.03	
05 15 16 00-0081 LF 1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....	0.30	0.08
<i>For &gt;500, Deduct</i>	-0.03	
05 15 16 00-0082 LF 5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....	0.34	0.09
<i>For &gt;500, Deduct</i>	-0.04	
05 15 16 00-0083 LF 3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable .....	0.41	0.09
<i>For &gt;500, Deduct</i>	-0.05	
<b>05 15 16 00-0084 7x19, Galvanized Finish, Aircraft Cable <sup>(05 15 16)</sup></b>		
05 15 16 00-0085 LF 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....	0.39	0.08
<i>For &gt;500, Deduct</i>	-0.05	
05 15 16 00-0086 LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....	0.42	0.09
<i>For &gt;500, Deduct</i>	-0.05	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				05 15 16 00-0087 LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.49		0.09
				For >500, Deduct	-0.06	
				05 15 16 00-0088 LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.55		0.09
				For >500, Deduct	-0.08	
				05 15 16 00-0089 LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....0.84		0.09
				For >500, Deduct	-0.12	
				05 15 16 00-0090 LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....1.13		0.09
				For >500, Deduct	-0.16	
<b>05 15 16 00-0091</b>				<b>Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)</b>		
				05 15 16 00-0092 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....11.23		2.75
				05 15 16 00-0093 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....12.51		2.75
				05 15 16 00-0094 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....13.92		2.75
				05 15 16 00-0095 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....17.81		2.75
				05 15 16 00-0096 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....17.83		2.75
				05 15 16 00-0097 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....17.83		2.75
				05 15 16 00-0098 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....19.14		2.75
				05 15 16 00-0099 EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....34.47		4.22
				05 15 16 00-0100 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....40.80		5.13
				05 15 16 00-0101 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....72.14		8.43
				05 15 16 00-0102 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....103.13		11.46
				05 15 16 00-0103 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....103.13		11.46
<b>05 15 16 00-0104</b>				<b>Galvanized Steel, Wire Rope Clips (05 15 16)</b>		
				05 15 16 00-0105 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip .....14.09		2.75
				05 15 16 00-0106 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip .....14.39		2.75
				05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip .....16.47		2.75
				05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip .....16.80		2.75
				05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip .....17.26		2.75
				05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip .....21.73		2.75
				05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip .....22.08		2.75
				05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip .....25.30		2.75
				05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip .....25.77		2.75
				05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip .....35.28		3.66
				05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip .....52.75		5.50
				05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip .....58.03		5.50
				05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip .....68.14		7.33
				05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip .....98.97		11.00
<b>05 15 16 00-0119</b>				<b>Steel, Open Swage Sockets (05 15 16)</b>		
				05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket .....65.37		2.75
				05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket .....103.59		2.75
				05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket .....107.22		3.66
				05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket .....127.90		4.58
				05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket .....127.90		4.58
				05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket .....189.24		10.08
				05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket .....189.24		10.08
				05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket .....245.47		19.25
				05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket .....331.22		27.50
				05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket .....468.62		42.16
				05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket .....622.24		65.99
				05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket .....724.56		76.07
<b>05 15 16 00-0132</b>				<b>Steel, Closed Swage Sockets (05 15 16)</b>		
				05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket .....52.87		2.75
				05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket .....71.05		2.75
				05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket .....71.05		2.75
				05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket .....88.83		3.66
				05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket .....89.84		3.66
				05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket .....124.35		6.42
				05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket .....128.71		7.33
				05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket .....160.45		11.91
				05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket .....208.77		17.42
				05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket .....298.52		23.82
				05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket .....371.77		32.99
				05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket .....508.11		51.32
<b>05 15 16 00-0145</b>				<b>Galvanized Steel, Open Spelter Sockets (05 15 16)</b>		
				05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket .....108.48		2.75
				05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket .....111.69		2.75
				05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket .....111.69		2.75
				05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket .....126.00		5.50
				05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket .....126.00		5.50
				05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket .....166.62		9.17
				05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket .....166.62		9.17



**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket.....	212.41	13.74
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket.....	319.12	22.91
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket.....	576.37	35.75
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket.....	687.33	57.74
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket.....	928.39	76.07
<b>05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)</b>		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket.....	91.18	2.75
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket.....	91.57	2.75
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket.....	91.57	2.75
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket.....	103.57	4.58
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket.....	103.57	4.58
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket.....	146.22	8.25
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket.....	146.22	8.25
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket.....	180.80	11.91
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket.....	264.43	18.33
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket.....	399.94	28.41
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket.....	523.97	38.49
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket.....	661.88	51.32
<b>05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)</b>		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	63.14	2.75
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.10	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	67.63	2.75
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.77	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	75.95	2.75
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-10.02	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	84.87	3.66
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-10.42	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	111.55	4.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.87	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	126.77	5.50
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-15.70	
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	129.80	7.33
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-15.24	
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	160.02	7.33
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-19.42	
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	181.44	8.25
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.31	
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	175.15	10.08
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-20.42	
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	199.87	11.91
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.75	
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	245.93	12.83
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-29.03	
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	295.89	15.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-34.90	
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	338.73	21.99
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-37.72	
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	410.34	25.67
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-46.28	
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	351.45	21.99
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-39.62	
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	404.00	28.41
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-43.41	
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	551.91	35.75
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-61.64	
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	618.31	42.16
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-67.75	
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	691.24	51.32
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.14	
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	832.46	57.74
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-90.50	
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	1,073.92	65.99
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-121.81	
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	1,064.70	70.57
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-117.41	
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	1,178.66	91.65
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-121.81	
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	2,097.04	119.14
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-245.82	
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	3,460.28	229.12
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-381.57	
<b>05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)</b>		
05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	14.01	
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	14.07	
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.76	
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	18.79	
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	18.71	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
05 15 16 00-0204	EA			5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	25.36		
05 15 16 00-0205	EA			3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	30.27		
05 15 16 00-0206	EA			7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	40.68		
05 15 16 00-0207	EA			1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	54.20		
05 15 16 00-0208	EA			1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	78.52		
05 15 16 00-0209	EA			1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	93.30		
05 15 16 00-0210	EA			1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	168.65		
05 15 16 00-0211	EA			1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	193.34		
05 15 16 00-0212	EA			2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	238.88		
<b>05 15 16 00-0213</b>	<b>Galvanized Steel, Drop Forged, Eye Bolts</b> <small>(05 15 16)</small>						
05 15 16 00-0214	EA			1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.20		
05 15 16 00-0215	EA			1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.52		
05 15 16 00-0216	EA			5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.11		
05 15 16 00-0217	EA			5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.11		
05 15 16 00-0218	EA			3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.11		
05 15 16 00-0219	EA			3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	29.92		
05 15 16 00-0220	EA			3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	29.06		
05 15 16 00-0221	EA			3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.65		
05 15 16 00-0222	EA			3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.87		
05 15 16 00-0223	EA			3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.67		
05 15 16 00-0224	EA			1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.84		
05 15 16 00-0225	EA			1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.41		
05 15 16 00-0226	EA			1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.70		
05 15 16 00-0227	EA			1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.08		
05 15 16 00-0228	EA			1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.57		
05 15 16 00-0229	EA			1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.01		
05 15 16 00-0230	EA			1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.47		
05 15 16 00-0231	EA			1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.55		
05 15 16 00-0232	EA			1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.95		
05 15 16 00-0233	EA			5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.52		
05 15 16 00-0234	EA			5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	33.52		
05 15 16 00-0235	EA			5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	41.94		
05 15 16 00-0236	EA			5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	47.95		
05 15 16 00-0237	EA			5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.17		
05 15 16 00-0238	EA			5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.76		
05 15 16 00-0239	EA			3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.67		
05 15 16 00-0240	EA			3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.58		
05 15 16 00-0241	EA			3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	51.41		
05 15 16 00-0242	EA			3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.39		
05 15 16 00-0243	EA			3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	64.55		
05 15 16 00-0244	EA			1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	85.22		
<b>05 15 19</b>	<b>Stainless Steel Wire Rope Assemblies</b> <small>(05 15)</small>						
<b>05 15 19 00-0001</b>	<b>7x7, 304 Stainless Steel, Aircraft Cable</b> <small>(05 15 19)</small>						
05 15 19 00-0002	LF			1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.26	0.06	
				<i>For &gt;500, Deduct</i>	-0.03		
05 15 19 00-0003	LF			3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.33	0.07	
				<i>For &gt;500, Deduct</i>	-0.04		
05 15 19 00-0004	LF			1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.45	0.08	
				<i>For &gt;500, Deduct</i>	-0.06		
05 15 19 00-0005	LF			5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.58	0.09	
				<i>For &gt;500, Deduct</i>	-0.09		
05 15 19 00-0006	LF			3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.73	0.09	
				<i>For &gt;500, Deduct</i>	-0.11		
<b>05 15 19 00-0007</b>	<b>7x19, 304 Stainless Steel, Aircraft Cable</b> <small>(05 15 19)</small>						
05 15 19 00-0008	LF			1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.51	0.08	
				<i>For &gt;500, Deduct</i>	-0.08		
05 15 19 00-0009	LF			5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.59	0.09	
				<i>For &gt;500, Deduct</i>	-0.09		
05 15 19 00-0010	LF			3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.69	0.09	
				<i>For &gt;500, Deduct</i>	-0.10		
05 15 19 00-0011	LF			1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.88	0.09	
				<i>For &gt;500, Deduct</i>	-0.14		
05 15 19 00-0012	LF			5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.35	0.09	
				<i>For &gt;500, Deduct</i>	-0.22		
05 15 19 00-0013	LF			3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	2.02	0.18	
				<i>For &gt;500, Deduct</i>	-0.33		
<b>05 15 19 00-0014</b>	<b>7x7, 316 Stainless Steel, Aircraft Cable</b> <small>(05 15 19)</small>						
05 15 19 00-0015	LF			1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.26	0.06	
				<i>For &gt;500, Deduct</i>	-0.03		
05 15 19 00-0016	LF			3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.33	0.07	
				<i>For &gt;500, Deduct</i>	-0.04		
05 15 19 00-0017	LF			1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.45	0.08	
				<i>For &gt;500, Deduct</i>	-0.06		

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0018	LF		5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable .....	0.58	0.09
			<i>For &gt;500, Deduct</i>	-0.09	
05 15 19 00-0019	LF		3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable .....	0.73	0.09
			<i>For &gt;500, Deduct</i>	-0.11	
<b>05 15 19 00-0020</b>			<b>7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)</b>		
05 15 19 00-0021	LF		1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	0.51	0.08
			<i>For &gt;500, Deduct</i>	-0.08	
05 15 19 00-0022	LF		5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	0.59	0.09
			<i>For &gt;500, Deduct</i>	-0.09	
05 15 19 00-0023	LF		3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	0.69	0.09
			<i>For &gt;500, Deduct</i>	-0.10	
05 15 19 00-0024	LF		1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	0.88	0.09
			<i>For &gt;500, Deduct</i>	-0.14	
05 15 19 00-0025	LF		5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	1.35	0.09
			<i>For &gt;500, Deduct</i>	-0.22	
05 15 19 00-0026	LF		3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable .....	2.02	0.09
			<i>For &gt;500, Deduct</i>	-0.33	

**05 40 Cold-Formed Metal Framing (05)**

Note: Includes all connecting bolts and welds.

**05 41 Structural Metal Stud Framing (05 40)**

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

**05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)**

05 41 00 00-0002	SF		2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.41	0.83
			<i>For Walls &gt;10' High, Add</i>	0.68	
			<i>For Curved Wall, Add</i>	0.59	
			<i>For Up To 200, Add</i>	1.07	
			<i>For &gt;200 To 500, Add</i>	0.54	
			<i>For 12" On Center, Add</i>	0.58	
			<i>For 24" On Center, Deduct</i>	-0.58	
05 41 00 00-0003	SF		3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.75	0.83
			<i>For Walls &gt;10' High, Add</i>	0.75	
			<i>For Curved Wall, Add</i>	0.62	
			<i>For Up To 200, Add</i>	1.16	
			<i>For &gt;200 To 500, Add</i>	0.58	
			<i>For 12" On Center, Add</i>	0.65	
			<i>For 24" On Center, Deduct</i>	-0.65	
05 41 00 00-0004	SF		4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.91	0.83
			<i>For Walls &gt;10' High, Add</i>	0.78	
			<i>For Curved Wall, Add</i>	0.64	
			<i>For Up To 200, Add</i>	1.21	
			<i>For &gt;200 To 500, Add</i>	0.60	
			<i>For 12" On Center, Add</i>	0.68	
			<i>For 24" On Center, Deduct</i>	-0.68	
05 41 00 00-0005	SF		6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.79	0.92
			<i>For Walls &gt;10' High, Add</i>	0.96	
			<i>For Curved Wall, Add</i>	0.67	
			<i>For Up To 200, Add</i>	1.40	
			<i>For &gt;200 To 500, Add</i>	0.70	
			<i>For 12" On Center, Add</i>	0.85	
			<i>For 24" On Center, Deduct</i>	-0.85	
05 41 00 00-0006	SF		8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.28	1.02
			<i>For Walls &gt;10' High, Add</i>	1.06	
			<i>For Curved Wall, Add</i>	0.70	
			<i>For Up To 200, Add</i>	1.52	
			<i>For &gt;200 To 500, Add</i>	0.76	
			<i>For 12" On Center, Add</i>	0.94	
			<i>For 24" On Center, Deduct</i>	-0.94	

**05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)**

05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.64	0.83
			<i>For Walls &gt;10' High, Add</i>	0.73	
			<i>For Curved Wall, Add</i>	0.62	
			<i>For Up To 200, Add</i>	1.14	
			<i>For &gt;200 To 500, Add</i>	0.57	
			<i>For 12" On Center, Add</i>	0.63	
			<i>For 24" On Center, Deduct</i>	-0.63	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.12	0.84
			<i>For Walls &gt;10' High, Add</i>	0.82	
			<i>For Curved Wall, Add</i>	0.65	
			<i>For Up To 200, Add</i>	1.25	
			<i>For &gt;200 To 500, Add</i>	0.63	
			<i>For 12" On Center, Add</i>	0.72	
			<i>For 24" On Center, Deduct</i>	-0.72	



<b>Metals</b>	<b>05</b>	<b>05</b>
Cold-Formed Metal Framing	05 40	
Structural Metal Stud Framing	05 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0010 SF 4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.34	0.84
<i>For Walls &gt;10' High, Add</i>	0.87	
<i>For Curved Wall, Add</i>	0.67	
<i>For Up To 200, Add</i>	1.32	
<i>For &gt;200 To 500, Add</i>	0.66	
<i>For 12" On Center, Add</i>	0.76	
<i>For 24" On Center, Deduct</i>	-0.76	
05 41 00 00-0011 SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.30	1.02
<i>For Walls &gt;10' High, Add</i>	1.06	
<i>For Curved Wall, Add</i>	0.71	
<i>For Up To 200, Add</i>	1.53	
<i>For &gt;200 To 500, Add</i>	0.77	
<i>For 12" On Center, Add</i>	0.94	
<i>For 24" On Center, Deduct</i>	-0.94	
05 41 00 00-0012 SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.79	1.11
<i>For Walls &gt;10' High, Add</i>	1.16	
<i>For Curved Wall, Add</i>	0.74	
<i>For Up To 200, Add</i>	1.65	
<i>For &gt;200 To 500, Add</i>	0.83	
<i>For 12" On Center, Add</i>	1.04	
<i>For 24" On Center, Deduct</i>	-1.04	
<b>05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)</b>		
05 41 00 00-0014 SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.91	1.15
<i>For Walls &gt;10' High, Add</i>	0.98	
<i>For Curved Wall, Add</i>	0.77	
<i>For Up To 200, Add</i>	1.50	
<i>For &gt;200 To 500, Add</i>	0.75	
<i>For 12" On Center, Add</i>	0.85	
<i>For 24" On Center, Deduct</i>	-0.85	
05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.03	1.18
<i>For Walls &gt;10' High, Add</i>	1.01	
<i>For Curved Wall, Add</i>	0.79	
<i>For Up To 200, Add</i>	1.53	
<i>For &gt;200 To 500, Add</i>	0.77	
<i>For 12" On Center, Add</i>	0.88	
<i>For 24" On Center, Deduct</i>	-0.88	
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.10	1.25
<i>For Walls &gt;10' High, Add</i>	1.22	
<i>For Curved Wall, Add</i>	0.83	
<i>For Up To 200, Add</i>	1.77	
<i>For &gt;200 To 500, Add</i>	0.89	
<i>For 12" On Center, Add</i>	1.08	
<i>For 24" On Center, Deduct</i>	-1.08	
05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.65	1.30
<i>For Walls &gt;10' High, Add</i>	1.33	
<i>For Curved Wall, Add</i>	0.86	
<i>For Up To 200, Add</i>	1.91	
<i>For &gt;200 To 500, Add</i>	0.95	
<i>For 12" On Center, Add</i>	1.19	
<i>For 24" On Center, Deduct</i>	-1.19	
<b>05 42 Cold-Formed Metal Joist Framing (05 40)</b>		
<b>05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)</b>		
Note: Floor or roof joist framing		
<b>05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)</b>		
05 42 13 00-0002 LF 5-1/2" - 20 Gauge Steel Joists .....	6.73	2.00
05 42 13 00-0003 LF 6" - 20 Gauge Steel Joists .....	7.51	2.50
05 42 13 00-0004 LF 7-1/4" - 20 Gauge Steel Joists .....	8.13	2.74
05 42 13 00-0005 LF 8" - 20 Gauge Steel Joists .....	9.02	2.92
<b>05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)</b>		
05 42 13 00-0007 LF 5-1/2" - 18 Gauge Steel Joists .....	7.48	2.22
05 42 13 00-0008 LF 6" - 18 Gauge Steel Joists .....	8.37	2.78
05 42 13 00-0009 LF 7-1/4" - 18 Gauge Steel Joists .....	9.07	3.05
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists .....	9.40	3.24
<b>05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)</b>		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists .....	9.69	3.08
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists .....	10.23	3.24
<b>05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)</b>		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists .....	11.33	3.24
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists .....	12.25	3.42

<b>05</b>	<b>05 Metals</b>
	<b>05 40 Cold-Formed Metal Framing</b>
	<b>05 42 Cold-Formed Metal Joist Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 42 13 00-0017 Steel Joists, 12 Gauge</b> <small>(05 42 13)</small>		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists .....	13.32	3.58
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists .....	14.50	3.77
<b>05 42 13 00-0020 Steel Joists, 10 Gauge</b> <small>(05 42 13)</small>		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists .....	15.37	3.94
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists .....	16.80	4.14
<b>05 42 13 00-0023 Steel Joists, 8 Gauge</b> <small>(05 42 13)</small>		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists .....	17.47	4.32
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists .....	19.13	4.56
<b>05 42 23 Cold-Formed Metal Roof Joist Framing</b> <small>(05 42)</small>		
See CSI section 05 42 13 00-0000 for metal joist framing.		
<b>05 43 Slotted Channel Framing</b> <small>(05 40)</small>		
<b>05 43 00 00-0001 Unistrut Channel</b> <small>(05 43)</small>		
Note: Excludes fasteners and accessories.		
<b>05 43 00 00-0002 Steel Unistrut Channel</b> <small>(05 43 00 00-0001)</small>		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	7.58	2.07
<i>For Powder Coating, Add</i>		
	0.52	
<i>For Galvanizing, Add</i>		
	0.58	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	7.74	2.07
<i>For Powder Coating, Add</i>		
	0.54	
<i>For Galvanizing, Add</i>		
	0.61	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	8.00	2.07
<i>For Powder Coating, Add</i>		
	0.58	
<i>For Galvanizing, Add</i>		
	0.66	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	7.24	2.07
<i>For Powder Coating, Add</i>		
	0.47	
<i>For Galvanizing, Add</i>		
	0.53	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	6.51	2.07
<i>For Powder Coating, Add</i>		
	0.36	
<i>For Galvanizing, Add</i>		
	0.40	
<b>05 43 00 00-0008 Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0001)</small>		
<b>05 43 00 00-0009 304 Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0008)</small>		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	21.07	2.07
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	25.20	2.07
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	24.17	2.07
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	30.56	2.07
<b>05 43 00 00-0014 316 Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0008)</small>		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....	34.48	2.07
<b>05 43 00 00-0016 Unistrut Closure Strips</b> <small>(05 43)</small>		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel.....	3.51	0.45
<b>05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel</b> <small>(05 43)</small>		
Note: Includes hex bolt.		
<b>05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel</b> <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel .....	5.58	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel .....	5.93	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel .....	6.20	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel .....	7.64	
<b>05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel</b> <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	12.35	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	13.11	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	18.31	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	30.91	
<b>05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel</b> <small>(05 43)</small>		
Note: Includes hex bolt.		
<b>05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel</b> <small>(05 43 00 00-0029)</small>		
Note: Includes hex bolt.		



	<b>Metals</b>	<b>05</b>
	Cold-Formed Metal Framing	05 40
	Slotted Channel Framing	05 43

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0031	EA		1/4-20, Steel Lock Nut Without Spring For Unistrut Channel .....	5.59	
05 43 00 00-0032	EA		3/8-16, Steel Lock Nut Without Spring For Unistrut Channel .....	5.98	
05 43 00 00-0033	EA		1/2-13, Steel Lock Nut Without Spring For Unistrut Channel .....	6.22	
05 43 00 00-0034	EA		5/8-11, Steel Lock Nut Without Spring For Unistrut Channel .....	8.05	
<b>05 43 00 00-0035</b>			<b>Stainless Steel Lock Nuts Without Spring For Unistrut Channel</b> <small>(05 43 00 00-0029)</small>		
			Note: Includes hex bolt.		
05 43 00 00-0036	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	9.01	
05 43 00 00-0037	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	10.75	
05 43 00 00-0038	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	11.66	
05 43 00 00-0039	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	30.12	
<b>05 43 00 00-0040</b>			<b>Beam Clamp For Unistrut Channel</b> <small>(05 43)</small>		
05 43 00 00-0041	EA		1-5/8" Channel, P2675 Unistrut Beam Clamp .....	17.84	6.87
05 43 00 00-0042	EA		1-5/8" Channel, P2676 Unistrut Beam Clamp .....	21.66	6.87
05 43 00 00-0043	EA		Add For Unistrut Swivel Nut, P2676 .....	2.08	
<b>05 43 00 00-0044</b>			<b>Beam Clamp Clevis Hangers For Unistrut Channel</b> <small>(05 43)</small>		
05 43 00 00-0045	EA		Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674) .....	19.17	6.87
05 43 00 00-0046	EA		Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677) .....	22.20	6.87
05 43 00 00-0047	EA		Add For Unistrut Swivel Nut .....	2.08	
05 43 00 00-0048	EA		6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut .....	108.85	9.17
<b>05 45</b>			<b>Metal Support Assemblies</b> <small>(05 40)</small>		
<b>05 45 16</b>			<b>Electrical Metal Supports</b> <small>(05 45)</small>		
			See CSI section 26 05 29 00-0000 for metal supports.		
<b>05 50</b>			<b>Metal Fabrications</b> <small>(05)</small>		
<b>05 51</b>			<b>Metal Stairs</b> <small>(05 50)</small>		
<b>05 51 13</b>			<b>Metal Pan Stairs</b> <small>(05 51)</small>		
			Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.		
			See CSI section 05 52 13 00-0000 for handrails.		
<b>05 51 13 00-0001</b>			<b>Open Concrete Filled Metal Pan Stair And Landing</b> <small>(05 51 13)</small>		
			Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002	RSR		3'-6" Wide Open Concrete Filled Metal Pan Tread Stair .....	622.69	26.58
			For Closed Riser, Add .....	71.08	
05 51 13 00-0003	RSR		4'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....	708.22	31.00
			For Closed Riser, Add .....	80.73	
05 51 13 00-0004	RSR		5'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....	790.28	36.32
			For Closed Riser, Add .....	89.85	
05 51 13 00-0005	SF		Concrete Filled Steel Pan Landing .....	69.21	4.43
			Note: Conventional shape.		
<b>05 51 19</b>			<b>Metal Grating Stairs</b> <small>(05 51)</small>		
			Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
<b>05 51 19 00-0001</b>			<b>Open Steel Grating Tread Metal Stair And Landing</b> <small>(05 51 19)</small>		
			Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002	RSR		3'-6" Wide Open Steel Grating Tread Metal Stair .....	310.49	35.43
			For Closed Riser, Add .....	36.47	
			For Galvanized Steel, Add .....	59.91	
05 51 19 00-0003	RSR		4'-0" Wide Open Steel Grating Tread Metal Stair .....	332.53	40.74
			For Closed Riser, Add .....	38.75	
			For Galvanized Steel, Add .....	62.76	
05 51 19 00-0004	RSR		5'-0" Wide Open Steel Grating Tread Metal Stair .....	369.52	47.84
			For Closed Riser, Add .....	42.78	
			For Galvanized Steel, Add .....	68.46	
05 51 19 00-0005	SF		Steel Grating Landing With Framing And 2 Pipe Handrail .....	58.79	4.43
			Note: Conventional shape.		
			For Galvanized Steel, Add .....	10.27	
<b>05 51 33</b>			<b>Metal Ladders</b> <small>(05 51)</small>		
			Note: Includes factory prime.		
<b>05 51 33 13</b>			<b>Vertical Metal Ladders</b> <small>(05 51 33)</small>		
<b>05 51 33 13-0001</b>			<b>Vertical Ladders</b> <small>(05 51 33 13)</small>		
			Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002	VLF		20" Wide Vertical Steel Ladder Primed .....	74.71	10.63
			For Galvanized Steel, Add .....	10.34	
			For Aluminum, Add .....	20.69	
05 51 33 13-0003	VLF		24" Wide Vertical Steel Ladder Primed .....	85.19	10.63
			For Galvanized Steel, Add .....	12.96	
			For Aluminum, Add .....	25.93	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0004 VLF 20" Wide Vertical Steel Caged Ladder Primed..... <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	176.65 30.05 60.09	17.71
05 51 33 13-0005 VLF 24" Wide Vertical Steel Caged Ladder Primed..... <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	197.61 35.29 70.57	17.71
<b>05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)</b>		
05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed..... Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	231.03 41.15 82.30	33.22
05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed..... Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	252.41 45.39 90.77	35.43
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp.....	324.72	11.07
05 51 33 13-0010 EA 6' Security Ladder Guard .....	717.44	66.43
05 51 33 13-0011 EA 8' Security Ladder Guard .....	856.98	77.51
05 51 33 13-0012 EA Safety Chain Attachment .....	129.06	
<b>05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)</b>		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
<b>05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)</b>		
05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,330.06	132.87
05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,441.05	137.30
05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,529.85	141.73
05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,624.55	146.16
05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,680.79	150.59
05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,771.06	155.01
05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,850.97	159.44
05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,954.57	163.88
05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,055.20	168.30
05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,138.08	172.73
05 51 33 13-0025 EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,238.70	177.17
05 51 33 13-0026 EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,336.38	181.59
05 51 33 13-0027 EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,432.59	186.02
05 51 33 13-0028 EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,605.75	190.45
05 51 33 13-0029 EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,659.01	194.88
05 51 33 13-0030 EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,749.28	199.31
05 51 33 13-0031 EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,832.15	203.73
05 51 33 13-0032 EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,909.10	208.17
05 51 33 13-0033 EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,077.83	212.59
05 51 33 13-0034 EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,169.59	217.02
05 51 33 13-0035 EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,255.41	221.46
<b>05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)</b>		
05 51 33 13-0037 EA 7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,080.42	132.87
05 51 33 13-0038 EA 8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,288.50	137.30
05 51 33 13-0039 EA 9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,633.65	141.73
05 51 33 13-0040 EA 10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,804.99	146.16
05 51 33 13-0041 EA 11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,949.51	150.59
05 51 33 13-0042 EA 12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,140.63	155.01
05 51 33 13-0043 EA 13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,482.96	159.44
05 51 33 13-0044 EA 14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,657.14	163.88
05 51 33 13-0045 EA 15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,836.97	168.30
05 51 33 13-0046 EA 16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,033.75	172.73
05 51 33 13-0047 EA 17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,383.13	177.17
05 51 33 13-0048 EA 18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,558.73	181.59
05 51 33 13-0049 EA 19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,725.85	186.02
05 51 33 13-0050 EA 20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,001.75	190.45
05 51 33 13-0051 EA 21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,311.58	194.88
05 51 33 13-0052 EA 22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,484.34	199.31
05 51 33 13-0053 EA 23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,661.34	203.73
05 51 33 13-0054 EA 24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,827.04	208.17
05 51 33 13-0055 EA 25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,249.91	212.59
05 51 33 13-0056 EA 26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,415.61	217.02
05 51 33 13-0057 EA 27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,585.54	221.46
<b>05 51 33 16 Inclined Metal Ladders (05 51 33)</b>		
<b>05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)</b>		
Note: Includes factory prime.		
05 51 33 16-0002 RSR 3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side..... <i>For Aluminum, Add</i>	232.00 71.71	44.29





<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**05 51 33 23 Alternating Tread Ladders** (05 51 33)

**05 51 33 23-0001 Vertical Ladders With Alternating Tread** (05 51 33 23)

05 51 33 23-0002	EA 4' Vertical Height Aluminum Alternating Tread Ladder.....	1,356.33		132.87
	For Stainless Steel, Add	196.80		
	For Primed Steel, Deduct	-191.42		
05 51 33 23-0003	EA 5' Vertical Height Aluminum Alternating Tread Ladder.....	1,540.91		140.85
	For Stainless Steel, Add	240.90		
	For Primed Steel, Deduct	-223.30		
05 51 33 23-0004	EA 6' Vertical Height Aluminum Alternating Tread Ladder.....	1,692.11		140.85
	For Stainless Steel, Add	288.67		
	For Primed Steel, Deduct	-241.55		
05 51 33 23-0005	EA 7' Vertical Height Aluminum Alternating Tread Ladder.....	1,950.08		176.98
	For Stainless Steel, Add	347.24		
	For Primed Steel, Deduct	-256.61		
05 51 33 23-0006	EA 8' Vertical Height Aluminum Alternating Tread Ladder.....	2,127.96		183.26
	For Stainless Steel, Add	388.99		
	For Primed Steel, Deduct	-298.53		
05 51 33 23-0007	EA 9' Vertical Height Aluminum Alternating Tread Ladder.....	2,261.57		183.26
	For Stainless Steel, Add	453.51		
	For Primed Steel, Deduct	-293.53		
05 51 33 23-0008	EA 10' Vertical Height Aluminum Alternating Tread Ladder.....	2,487.33		204.42
	For Stainless Steel, Add	497.40		
	For Primed Steel, Deduct	-327.55		
05 51 33 23-0009	EA 11' Vertical Height Aluminum Alternating Tread Ladder.....	2,637.02		204.42
	For Stainless Steel, Add	546.61		
	For Primed Steel, Deduct	-347.07		
05 51 33 23-0010	EA 12' Vertical Height Aluminum Alternating Tread Ladder.....	2,753.49		204.42
	For Stainless Steel, Add	623.99		
	For Primed Steel, Deduct	-346.65		

**05 52 Metal Railings** (05 50)

**05 52 13 Pipe And Tube Railings** (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

**05 52 13 00-0001 Welded Steel Pipe Railing** (05 52 13)

Note: Includes field welds and touch-up of welds.

**05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings** (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.08		8.86
	For Schedule 80 Handrail, Add	3.05		
	For 11 Gauge A513 Steel Tubing, Deduct	-4.26		
	For 12 Gauge A513 Steel Tubing, Deduct	-4.84		
	For 14 Gauge A513 Steel Tubing, Deduct	-6.39		
	For 16 Gauge A513 Steel Tubing, Deduct	-7.55		
	For Additional Off Set Handrail, ADA Attachment, Add	12.03		
	For Aluminum, Satin Finish, Add	8.14		
	For Aluminum, Clear Anodized Finish, Add	12.59		
	For Aluminum, Dark Anodized Finish, Add	14.53		
	For Galvanizing, Add	7.75		
	For Wrought Iron, Add	3.71		
	For Solid Steel Rails, Add	7.42		
	For 304 Stainless Steel, Add	61.98		
	For 316 Stainless Steel, Add	69.73		
	For 2" Wheel Guard, Add	1.84		
	For 4" High Kick Plate, Add	2.42		
	For 6" High Kick Plate, Add	3.87		
	For Curved Rail, Add	16.94		
	For Mounting On Stairs, Add	4.59		
	For Mounting On Slopes, Add	1.77		
	For Post Base Flange With Screws, Add Per Post	19.27		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16		
	For Custom Design Or Shapes (Square Tops, etc), Add	14.11		
	For Nylon Coating, Add	2.91		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

05 52 13 00-0004	LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	40.41	8.86
	For Schedule 80 Handrail, Add	4.48	
	For 11 Gauge A513 Steel Tubing, Deduct	-4.99	
	For 12 Gauge A513 Steel Tubing, Deduct	-5.68	
	For 14 Gauge A513 Steel Tubing, Deduct	-7.49	
	For 16 Gauge A513 Steel Tubing, Deduct	-8.85	
	For Additional Off Set Handrail, ADA Attachment, Add	12.03	
	For Aluminum, Satin Finish, Add	9.53	
	For Aluminum, Clear Anodized Finish, Add	14.76	
	For Aluminum, Dark Anodized Finish, Add	17.03	
	For Galvanizing, Add	9.08	
	For Wrought Iron, Add	4.04	
	For Solid Steel Rails, Add	8.08	
	For 304 Stainless Steel, Add	72.64	
	For 316 Stainless Steel, Add	81.72	
	For 2" Wheel Guard, Add	2.16	
	For 4" High Kick Plate, Add	2.84	
	For 6" High Kick Plate, Add	4.54	
	For Curved Rail, Add	18.93	
	For Mounting On Stairs, Add	4.93	
	For Mounting On Slopes, Add	1.77	
	For Post Base Flange With Screws, Add Per Post	19.27	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
	For Custom Design Or Shapes (Square Tops, etc), Add	15.78	
	For Nylon Coating, Add	3.41	
05 52 13 00-0005	LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	43.75	8.86
	For Schedule 80 Handrail, Add	4.48	
	For 11 Gauge A513 Steel Tubing, Deduct	-5.73	
	For 12 Gauge A513 Steel Tubing, Deduct	-6.51	
	For 14 Gauge A513 Steel Tubing, Deduct	-8.59	
	For 16 Gauge A513 Steel Tubing, Deduct	-10.16	
	For Additional Off Set Handrail, ADA Attachment, Add	12.03	
	For Aluminum, Satin Finish, Add	10.94	
	For Aluminum, Clear Anodized Finish, Add	16.93	
	For Aluminum, Dark Anodized Finish, Add	19.53	
	For Galvanizing, Add	10.42	
	For Wrought Iron, Add	4.38	
	For Solid Steel Rails, Add	8.75	
	For 304 Stainless Steel, Add	83.33	
	For 316 Stainless Steel, Add	93.74	
	For 2" Wheel Guard, Add	2.47	
	For 4" High Kick Plate, Add	3.26	
	For 6" High Kick Plate, Add	5.21	
	For Curved Rail, Add	20.94	
	For Mounting On Stairs, Add	5.26	
	For Mounting On Slopes, Add	1.77	
	For Post Base Flange With Screws, Add Per Post	19.27	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
	For Custom Design Or Shapes (Square Tops, etc), Add	17.45	
	For Nylon Coating, Add	3.91	
05 52 13 00-0006	LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	49.54	8.86
	For Schedule 80 Handrail, Add	5.06	
	For 11 Gauge A513 Steel Tubing, Deduct	-7.00	
	For 12 Gauge A513 Steel Tubing, Deduct	-7.96	
	For 14 Gauge A513 Steel Tubing, Deduct	-10.50	
	For 16 Gauge A513 Steel Tubing, Deduct	-12.41	
	For Additional Off Set Handrail, ADA Attachment, Add	12.03	
	For Aluminum, Satin Finish, Add	13.37	
	For Aluminum, Clear Anodized Finish, Add	20.69	
	For Aluminum, Dark Anodized Finish, Add	23.87	
	For Galvanizing, Add	12.73	
	For Wrought Iron, Add	4.95	
	For Solid Steel Rails, Add	9.91	
	For 304 Stainless Steel, Add	101.86	
	For 316 Stainless Steel, Add	114.59	
	For 2" Wheel Guard, Add	3.02	
	For 4" High Kick Plate, Add	3.98	
	For 6" High Kick Plate, Add	6.37	
	For Curved Rail, Add	24.41	
	For Mounting On Stairs, Add	5.84	
	For Mounting On Slopes, Add	1.77	
	For Post Base Flange With Screws, Add Per Post	19.27	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
	For Custom Design Or Shapes (Square Tops, etc), Add	20.34	
	For Nylon Coating, Add	4.77	



<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	56.47	8.86
For Schedule 80 Handrail, Add	5.64	
For 11 Gauge A513 Steel Tubing, Deduct	-8.53	
For 12 Gauge A513 Steel Tubing, Deduct	-9.69	
For 14 Gauge A513 Steel Tubing, Deduct	-12.79	
For 16 Gauge A513 Steel Tubing, Deduct	-15.12	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	16.28	
For Aluminum, Clear Anodized Finish, Add	25.19	
For Aluminum, Dark Anodized Finish, Add	29.07	
For Galvanizing, Add	15.50	
For Wrought Iron, Add	5.65	
For Solid Steel Rails, Add	11.29	
For 304 Stainless Steel, Add	124.03	
For 316 Stainless Steel, Add	139.54	
For 2" Wheel Guard, Add	3.68	
For 4" High Kick Plate, Add	4.85	
For 6" High Kick Plate, Add	7.75	
For Curved Rail, Add	28.57	
For Mounting On Stairs, Add	6.53	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	23.81	
For Nylon Coating, Add	5.81	
<b>05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)</b>		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	41.92	8.86
For Schedule 80 Handrail, Add	3.05	
For 11 Gauge A513 Steel Tubing, Deduct	-5.33	
For 12 Gauge A513 Steel Tubing, Deduct	-6.05	
For 14 Gauge A513 Steel Tubing, Deduct	-7.99	
For 16 Gauge A513 Steel Tubing, Deduct	-9.44	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	10.17	
For Aluminum, Clear Anodized Finish, Add	15.74	
For Aluminum, Dark Anodized Finish, Add	18.16	
For Galvanizing, Add	9.68	
For Wrought Iron, Add	4.19	
For Solid Steel Rails, Add	8.38	
For 304 Stainless Steel, Add	77.47	
For 316 Stainless Steel, Add	87.16	
For 2" Wheel Guard, Add	2.30	
For 4" High Kick Plate, Add	3.03	
For 6" High Kick Plate, Add	4.84	
For Curved Rail, Add	19.84	
For Mounting On Stairs, Add	5.08	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	16.53	
For Nylon Coating, Add	3.63	
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.09	8.86
For Schedule 80 Handrail, Add	4.48	
For 11 Gauge A513 Steel Tubing, Deduct	-6.24	
For 12 Gauge A513 Steel Tubing, Deduct	-7.10	
For 14 Gauge A513 Steel Tubing, Deduct	-9.37	
For 16 Gauge A513 Steel Tubing, Deduct	-11.07	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	11.92	
For Aluminum, Clear Anodized Finish, Add	18.45	
For Aluminum, Dark Anodized Finish, Add	21.29	
For Galvanizing, Add	11.35	
For Wrought Iron, Add	4.61	
For Solid Steel Rails, Add	9.22	
For 304 Stainless Steel, Add	90.82	
For 316 Stainless Steel, Add	102.17	
For 2" Wheel Guard, Add	2.70	
For 4" High Kick Plate, Add	3.55	
For 6" High Kick Plate, Add	5.68	
For Curved Rail, Add	22.34	
For Mounting On Stairs, Add	5.49	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	18.62	
For Nylon Coating, Add	4.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.26	8.86
For Schedule 80 Handrail, Add	4.48	
For 11 Gauge A513 Steel Tubing, Deduct	-7.16	
For 12 Gauge A513 Steel Tubing, Deduct	-8.14	
For 14 Gauge A513 Steel Tubing, Deduct	-10.74	
For 16 Gauge A513 Steel Tubing, Deduct	-12.69	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	13.67	
For Aluminum, Clear Anodized Finish, Add	21.16	
For Aluminum, Dark Anodized Finish, Add	24.41	
For Galvanizing, Add	13.02	
For Wrought Iron, Add	5.03	
For Solid Steel Rails, Add	10.05	
For 304 Stainless Steel, Add	104.16	
For 316 Stainless Steel, Add	117.18	
For 2" Wheel Guard, Add	3.09	
For 4" High Kick Plate, Add	4.07	
For 6" High Kick Plate, Add	6.51	
For Curved Rail, Add	24.84	
For Mounting On Stairs, Add	5.91	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	20.70	
For Nylon Coating, Add	4.88	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	57.49	8.86
For Schedule 80 Handrail, Add	5.06	
For 11 Gauge A513 Steel Tubing, Deduct	-8.75	
For 12 Gauge A513 Steel Tubing, Deduct	-9.95	
For 14 Gauge A513 Steel Tubing, Deduct	-13.13	
For 16 Gauge A513 Steel Tubing, Deduct	-15.51	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	16.71	
For Aluminum, Clear Anodized Finish, Add	25.86	
For Aluminum, Dark Anodized Finish, Add	29.84	
For Galvanizing, Add	15.91	
For Wrought Iron, Add	5.75	
For Solid Steel Rails, Add	11.50	
For 304 Stainless Steel, Add	127.30	
For 316 Stainless Steel, Add	143.21	
For 2" Wheel Guard, Add	3.78	
For 4" High Kick Plate, Add	4.97	
For 6" High Kick Plate, Add	7.96	
For Curved Rail, Add	29.18	
For Mounting On Stairs, Add	6.63	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	24.32	
For Nylon Coating, Add	5.97	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	66.16	8.86
For Schedule 80 Handrail, Add	5.64	
For 11 Gauge A513 Steel Tubing, Deduct	-10.66	
For 12 Gauge A513 Steel Tubing, Deduct	-12.11	
For 14 Gauge A513 Steel Tubing, Deduct	-15.99	
For 16 Gauge A513 Steel Tubing, Deduct	-18.90	
For Additional Off Set Handrail, ADA Attachment, Add	12.03	
For Aluminum, Satin Finish, Add	20.35	
For Aluminum, Clear Anodized Finish, Add	31.49	
For Aluminum, Dark Anodized Finish, Add	36.34	
For Galvanizing, Add	19.38	
For Wrought Iron, Add	6.62	
For Solid Steel Rails, Add	13.23	
For 304 Stainless Steel, Add	155.04	
For 316 Stainless Steel, Add	174.42	
For 2" Wheel Guard, Add	4.60	
For 4" High Kick Plate, Add	6.06	
For 6" High Kick Plate, Add	9.69	
For Curved Rail, Add	34.38	
For Mounting On Stairs, Add	7.50	
For Mounting On Slopes, Add	1.77	
For Post Base Flange With Screws, Add Per Post	19.27	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.16	
For Custom Design Or Shapes (Square Tops, etc), Add	28.65	
For Nylon Coating, Add	7.27	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)  
Note: Includes factory primed posts and three rails.



<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing .....	55.86	10.63
For Schedule 80 Handrail, Add	4.54	
For 11 Gauge A513 Steel Tubing, Deduct	-7.61	
For 12 Gauge A513 Steel Tubing, Deduct	-8.65	
For 14 Gauge A513 Steel Tubing, Deduct	-11.42	
For 16 Gauge A513 Steel Tubing, Deduct	-13.49	
For Additional Off Set Handrail, ADA Attachment, Add	12.74	
For Aluminum, Satin Finish, Add	14.53	
For Aluminum, Clear Anodized Finish, Add	22.49	
For Aluminum, Dark Anodized Finish, Add	25.95	
For Galvanizing, Add	13.84	
For Wrought Iron, Add	5.59	
For Solid Steel Rails, Add	11.17	
For 304 Stainless Steel, Add	110.72	
For 316 Stainless Steel, Add	124.56	
For 2" Wheel Guard, Add	3.29	
For 4" High Kick Plate, Add	4.33	
For 6" High Kick Plate, Add	6.92	
For Curved Rail, Add	27.14	
For Mounting On Stairs, Add	6.65	
For Mounting On Slopes, Add	2.13	
For Post Base Flange With Screws, Add Per Post	19.63	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.69	
For Custom Design Or Shapes (Square Tops, etc), Add	22.62	
For Nylon Coating, Add	5.19	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing .....	61.82	10.63
For Schedule 80 Handrail, Add	6.44	
For 11 Gauge A513 Steel Tubing, Deduct	-8.92	
For 12 Gauge A513 Steel Tubing, Deduct	-10.14	
For 14 Gauge A513 Steel Tubing, Deduct	-13.38	
For 16 Gauge A513 Steel Tubing, Deduct	-15.82	
For Additional Off Set Handrail, ADA Attachment, Add	12.74	
For Aluminum, Satin Finish, Add	17.04	
For Aluminum, Clear Anodized Finish, Add	26.36	
For Aluminum, Dark Anodized Finish, Add	30.42	
For Galvanizing, Add	16.22	
For Wrought Iron, Add	6.18	
For Solid Steel Rails, Add	12.36	
For 304 Stainless Steel, Add	129.79	
For 316 Stainless Steel, Add	146.02	
For 2" Wheel Guard, Add	3.85	
For 4" High Kick Plate, Add	5.07	
For 6" High Kick Plate, Add	8.11	
For Curved Rail, Add	30.71	
For Mounting On Stairs, Add	7.25	
For Mounting On Slopes, Add	2.13	
For Post Base Flange With Screws, Add Per Post	19.63	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.69	
For Custom Design Or Shapes (Square Tops, etc), Add	25.60	
For Nylon Coating, Add	6.08	
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing .....	67.78	10.63
For Schedule 80 Handrail, Add	6.44	
For 11 Gauge A513 Steel Tubing, Deduct	-10.23	
For 12 Gauge A513 Steel Tubing, Deduct	-11.63	
For 14 Gauge A513 Steel Tubing, Deduct	-15.35	
For 16 Gauge A513 Steel Tubing, Deduct	-18.14	
For Additional Off Set Handrail, ADA Attachment, Add	12.74	
For Aluminum, Satin Finish, Add	19.54	
For Aluminum, Clear Anodized Finish, Add	30.24	
For Aluminum, Dark Anodized Finish, Add	34.89	
For Galvanizing, Add	18.61	
For Wrought Iron, Add	6.78	
For Solid Steel Rails, Add	13.56	
For 304 Stainless Steel, Add	148.86	
For 316 Stainless Steel, Add	167.47	
For 2" Wheel Guard, Add	4.42	
For 4" High Kick Plate, Add	5.82	
For 6" High Kick Plate, Add	9.30	
For Curved Rail, Add	34.29	
For Mounting On Stairs, Add	7.84	
For Mounting On Slopes, Add	2.13	
For Post Base Flange With Screws, Add Per Post	19.63	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.69	
For Custom Design Or Shapes (Square Tops, etc), Add	28.58	
For Nylon Coating, Add	6.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing .....	78.14	10.63
			For Schedule 80 Handrail, Add	7.21	
			For 11 Gauge A513 Steel Tubing, Deduct	-12.51	
			For 12 Gauge A513 Steel Tubing, Deduct	-14.22	
			For 14 Gauge A513 Steel Tubing, Deduct	-18.77	
			For 16 Gauge A513 Steel Tubing, Deduct	-22.18	
			For Additional Off Set Handrail, ADA Attachment, Add	12.74	
			For Aluminum, Satin Finish, Add	23.89	
			For Aluminum, Clear Anodized Finish, Add	36.97	
			For Aluminum, Dark Anodized Finish, Add	42.66	
			For Galvanizing, Add	22.75	
			For Wrought Iron, Add	7.81	
			For Solid Steel Rails, Add	15.63	
			For 304 Stainless Steel, Add	182.02	
			For 316 Stainless Steel, Add	204.77	
			For 2" Wheel Guard, Add	5.40	
			For 4" High Kick Plate, Add	7.11	
			For 6" High Kick Plate, Add	11.38	
			For Curved Rail, Add	40.51	
			For Mounting On Stairs, Add	8.88	
			For Mounting On Slopes, Add	2.13	
			For Post Base Flange With Screws, Add Per Post	19.63	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.69	
			For Custom Design Or Shapes (Square Tops, etc), Add	33.76	
			For Nylon Coating, Add	8.53	
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing .....	90.47	10.63
			For Schedule 80 Handrail, Add	7.98	
			For 11 Gauge A513 Steel Tubing, Deduct	-15.23	
			For 12 Gauge A513 Steel Tubing, Deduct	-17.30	
			For 14 Gauge A513 Steel Tubing, Deduct	-22.84	
			For 16 Gauge A513 Steel Tubing, Deduct	-26.99	
			For Additional Off Set Handrail, ADA Attachment, Add	12.74	
			For Aluminum, Satin Finish, Add	29.07	
			For Aluminum, Clear Anodized Finish, Add	44.99	
			For Aluminum, Dark Anodized Finish, Add	51.91	
			For Galvanizing, Add	27.68	
			For Wrought Iron, Add	9.05	
			For Solid Steel Rails, Add	18.09	
			For 304 Stainless Steel, Add	221.47	
			For 316 Stainless Steel, Add	249.16	
			For 2" Wheel Guard, Add	6.57	
			For 4" High Kick Plate, Add	8.65	
			For 6" High Kick Plate, Add	13.84	
			For Curved Rail, Add	47.90	
			For Mounting On Stairs, Add	10.11	
			For Mounting On Slopes, Add	2.13	
			For Post Base Flange With Screws, Add Per Post	19.63	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.69	
			For Custom Design Or Shapes (Square Tops, etc), Add	39.92	
			For Nylon Coating, Add	10.38	
05 52 13 00-0020			<b>Four Rail, Up To 42" High, Welded Steel Pipe Railings</b> <small>(05 52 13 00-0001)</small>		
			Note: Includes factory primed posts and four rails.		
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	67.27	12.40
			For Schedule 80 Handrail, Add	6.23	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.34	
			For 12 Gauge A513 Steel Tubing, Deduct	-10.62	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.02	
			For 16 Gauge A513 Steel Tubing, Deduct	-16.56	
			For Additional Off Set Handrail, ADA Attachment, Add	13.45	
			For Aluminum, Satin Finish, Add	17.84	
			For Aluminum, Clear Anodized Finish, Add	27.61	
			For Aluminum, Dark Anodized Finish, Add	31.85	
			For Galvanizing, Add	16.99	
			For Wrought Iron, Add	6.73	
			For Solid Steel Rails, Add	13.45	
			For 304 Stainless Steel, Add	135.90	
			For 316 Stainless Steel, Add	152.89	
			For 2" Wheel Guard, Add	4.03	
			For 4" High Kick Plate, Add	5.31	
			For 6" High Kick Plate, Add	8.49	
			For Curved Rail, Add	32.92	
			For Mounting On Stairs, Add	7.97	
			For Mounting On Slopes, Add	2.48	
			For Post Base Flange With Screws, Add Per Post	19.98	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.22	
			For Custom Design Or Shapes (Square Tops, etc), Add	27.44	
			For Nylon Coating, Add	6.37	





<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	72.56	12.40
For Schedule 80 Handrail, Add	8.60	
For 11 Gauge A513 Steel Tubing, Deduct	-10.51	
For 12 Gauge A513 Steel Tubing, Deduct	-11.94	
For 14 Gauge A513 Steel Tubing, Deduct	-15.76	
For 16 Gauge A513 Steel Tubing, Deduct	-18.63	
For Additional Off Set Handrail, ADA Attachment, Add	13.45	
For Aluminum, Satin Finish, Add	20.06	
For Aluminum, Clear Anodized Finish, Add	31.04	
For Aluminum, Dark Anodized Finish, Add	35.82	
For Galvanizing, Add	19.10	
For Wrought Iron, Add	7.26	
For Solid Steel Rails, Add	14.51	
For 304 Stainless Steel, Add	152.83	
For 316 Stainless Steel, Add	171.94	
For 2" Wheel Guard, Add	4.54	
For 4" High Kick Plate, Add	5.97	
For 6" High Kick Plate, Add	9.55	
For Curved Rail, Add	36.10	
For Mounting On Stairs, Add	8.50	
For Mounting On Slopes, Add	2.48	
For Post Base Flange With Screws, Add Per Post	19.98	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.22	
For Custom Design Or Shapes (Square Tops, etc), Add	30.08	
For Nylon Coating, Add	7.16	
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	77.85	12.40
For Schedule 80 Handrail, Add	8.60	
For 11 Gauge A513 Steel Tubing, Deduct	-11.67	
For 12 Gauge A513 Steel Tubing, Deduct	-13.26	
For 14 Gauge A513 Steel Tubing, Deduct	-17.51	
For 16 Gauge A513 Steel Tubing, Deduct	-20.69	
For Additional Off Set Handrail, ADA Attachment, Add	13.45	
For Aluminum, Satin Finish, Add	22.28	
For Aluminum, Clear Anodized Finish, Add	34.48	
For Aluminum, Dark Anodized Finish, Add	39.79	
For Galvanizing, Add	21.22	
For Wrought Iron, Add	7.79	
For Solid Steel Rails, Add	15.57	
For 304 Stainless Steel, Add	169.76	
For 316 Stainless Steel, Add	190.98	
For 2" Wheel Guard, Add	5.04	
For 4" High Kick Plate, Add	6.63	
For 6" High Kick Plate, Add	10.61	
For Curved Rail, Add	39.27	
For Mounting On Stairs, Add	9.03	
For Mounting On Slopes, Add	2.48	
For Post Base Flange With Screws, Add Per Post	19.98	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.22	
For Custom Design Or Shapes (Square Tops, etc), Add	32.73	
For Nylon Coating, Add	7.96	
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	89.64	12.40
For Schedule 80 Handrail, Add	9.57	
For 11 Gauge A513 Steel Tubing, Deduct	-14.26	
For 12 Gauge A513 Steel Tubing, Deduct	-16.21	
For 14 Gauge A513 Steel Tubing, Deduct	-21.40	
For 16 Gauge A513 Steel Tubing, Deduct	-25.29	
For Additional Off Set Handrail, ADA Attachment, Add	13.45	
For Aluminum, Satin Finish, Add	27.23	
For Aluminum, Clear Anodized Finish, Add	42.15	
For Aluminum, Dark Anodized Finish, Add	48.63	
For Galvanizing, Add	25.94	
For Wrought Iron, Add	8.96	
For Solid Steel Rails, Add	17.93	
For 304 Stainless Steel, Add	207.49	
For 316 Stainless Steel, Add	233.42	
For 2" Wheel Guard, Add	6.16	
For 4" High Kick Plate, Add	8.11	
For 6" High Kick Plate, Add	12.97	
For Curved Rail, Add	46.34	
For Mounting On Stairs, Add	10.20	
For Mounting On Slopes, Add	2.48	
For Post Base Flange With Screws, Add Per Post	19.98	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.22	
For Custom Design Or Shapes (Square Tops, etc), Add	38.62	
For Nylon Coating, Add	9.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	103.45	12.40
For Schedule 80 Handrail, Add	10.54	
For 11 Gauge A513 Steel Tubing, Deduct	-17.30	
For 12 Gauge A513 Steel Tubing, Deduct	-19.66	
For 14 Gauge A513 Steel Tubing, Deduct	-25.95	
For 16 Gauge A513 Steel Tubing, Deduct	-30.67	
For Additional Off Set Handrail, ADA Attachment, Add	13.45	
For Aluminum, Satin Finish, Add	33.03	
For Aluminum, Clear Anodized Finish, Add	51.12	
For Aluminum, Dark Anodized Finish, Add	58.99	
For Galvanizing, Add	31.46	
For Wrought Iron, Add	10.35	
For Solid Steel Rails, Add	20.69	
For 304 Stainless Steel, Add	251.68	
For 316 Stainless Steel, Add	283.14	
For 2" Wheel Guard, Add	7.47	
For 4" High Kick Plate, Add	9.83	
For 6" High Kick Plate, Add	15.73	
For Curved Rail, Add	54.63	
For Mounting On Stairs, Add	11.59	
For Mounting On Slopes, Add	2.48	
For Post Base Flange With Screws, Add Per Post	19.98	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.22	
For Custom Design Or Shapes (Square Tops, etc), Add	45.53	
For Nylon Coating, Add	11.80	
<b>05 52 13 00-0026 Railing Infill Panels</b> <small>(05 52 13)</small>		
Note: Includes field welds and touch-up of welds.		
<b>05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels</b> <small>(05 52 13 00-0026)</small>		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	8.58	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....	9.11	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	9.58	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	16.20	
<b>05 52 13 00-0032 Perforated Metal, Railing Infill Panels</b> <small>(05 52 13 00-0026)</small>		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel .....	8.42	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel .....	8.70	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel .....	9.32	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel.....	18.70	
<b>05 52 13 00-0037 Expanded Metal, Railing Infill Panels</b> <small>(05 52 13 00-0026)</small>		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	3.80	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel.....	7.76	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	10.19	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	15.19	
<b>05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings</b> <small>(05 52 13)</small>		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	31.82	5.32
For Schedule 80 Handrail, Add	1.83	
For 11 Gauge A513 Steel Tubing, Deduct	-4.08	
For 12 Gauge A513 Steel Tubing, Deduct	-4.63	
For 14 Gauge A513 Steel Tubing, Deduct	-6.11	
For 16 Gauge A513 Steel Tubing, Deduct	-7.23	
For Stainless Steel, Add	37.06	
For Aluminum, Satin Finish, Add	7.78	
For Curved Rail, Add	9.55	
For Aluminum, Clear Anodized Finish, Add	12.04	
For Aluminum, Dark Anodized Finish, Add	13.90	
For Galvanized Finish, Add	5.56	
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	32.42	5.32
For Schedule 80 Handrail, Add	2.07	
For 11 Gauge A513 Steel Tubing, Deduct	-4.21	
For 12 Gauge A513 Steel Tubing, Deduct	-4.78	
For 14 Gauge A513 Steel Tubing, Deduct	-6.31	
For 16 Gauge A513 Steel Tubing, Deduct	-7.46	
For Stainless Steel, Add	38.26	
For Aluminum, Satin Finish, Add	8.03	
For Curved Rail, Add	9.73	
For Aluminum, Clear Anodized Finish, Add	12.43	
For Aluminum, Dark Anodized Finish, Add	14.35	
For Galvanized Finish, Add	5.74	



	<b>Metals</b>	<b>05</b>	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0045 LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	33.02	5.32
For Schedule 80 Handrail, Add	5.24	
For 11 Gauge A513 Steel Tubing, Deduct	-4.34	
For 12 Gauge A513 Steel Tubing, Deduct	-4.93	
For 14 Gauge A513 Steel Tubing, Deduct	-6.51	
For 16 Gauge A513 Steel Tubing, Deduct	-7.69	
For Stainless Steel, Add	39.46	
For Aluminum, Satin Finish, Add	8.29	
For Curved Rail, Add	9.91	
For Aluminum, Clear Anodized Finish, Add	12.82	
For Aluminum, Dark Anodized Finish, Add	14.80	
For Galvanized Finish, Add	5.92	
05 52 13 00-0046 LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	39.89	5.32
For Schedule 80 Handrail, Add	2.50	
For 11 Gauge A513 Steel Tubing, Deduct	-5.85	
For 12 Gauge A513 Steel Tubing, Deduct	-6.65	
For 14 Gauge A513 Steel Tubing, Deduct	-8.78	
For 16 Gauge A513 Steel Tubing, Deduct	-10.37	
For Stainless Steel, Add	53.20	
For Aluminum, Satin Finish, Add	11.17	
For Curved Rail, Add	11.97	
For Aluminum, Clear Anodized Finish, Add	17.29	
For Aluminum, Dark Anodized Finish, Add	19.95	
For Galvanized Finish, Add	7.98	
05 52 13 00-0047 LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	45.57	5.32
For Schedule 80 Handrail, Add	2.69	
For 11 Gauge A513 Steel Tubing, Deduct	-7.10	
For 12 Gauge A513 Steel Tubing, Deduct	-8.07	
For 14 Gauge A513 Steel Tubing, Deduct	-10.65	
For 16 Gauge A513 Steel Tubing, Deduct	-12.59	
For Stainless Steel, Add	64.56	
For Aluminum, Satin Finish, Add	13.56	
For Curved Rail, Add	13.67	
For Aluminum, Clear Anodized Finish, Add	20.98	
For Aluminum, Dark Anodized Finish, Add	24.21	
For Galvanized Finish, Add	9.68	
<b>05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings</b> <small>(05 52 13)</small>		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	38.85	5.58
For Schedule 80 Handrail, Add	1.83	
For 11 Gauge A513 Steel Tubing, Deduct	-5.62	
For 12 Gauge A513 Steel Tubing, Deduct	-6.39	
For 14 Gauge A513 Steel Tubing, Deduct	-8.43	
For 16 Gauge A513 Steel Tubing, Deduct	-9.97	
For Stainless Steel, Add	51.12	
For Aluminum, Satin Finish, Add	10.74	
For Curved Rail, Add	11.66	
For Aluminum, Clear Anodized Finish, Add	16.61	
For Aluminum, Dark Anodized Finish, Add	19.17	
For Galvanized Finish, Add	7.67	
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	39.68	5.58
For Schedule 80 Handrail, Add	2.07	
For 11 Gauge A513 Steel Tubing, Deduct	-5.81	
For 12 Gauge A513 Steel Tubing, Deduct	-6.60	
For 14 Gauge A513 Steel Tubing, Deduct	-8.71	
For 16 Gauge A513 Steel Tubing, Deduct	-10.29	
For Stainless Steel, Add	52.78	
For Aluminum, Satin Finish, Add	11.08	
For Curved Rail, Add	11.90	
For Aluminum, Clear Anodized Finish, Add	17.15	
For Aluminum, Dark Anodized Finish, Add	19.79	
For Galvanized Finish, Add	7.92	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	40.31	5.58
For Schedule 80 Handrail, Add	5.24	
For 11 Gauge A513 Steel Tubing, Deduct	-5.94	
For 12 Gauge A513 Steel Tubing, Deduct	-6.76	
For 14 Gauge A513 Steel Tubing, Deduct	-8.92	
For 16 Gauge A513 Steel Tubing, Deduct	-10.54	
For Stainless Steel, Add	54.04	
For Aluminum, Satin Finish, Add	11.35	
For Curved Rail, Add	12.09	
For Aluminum, Clear Anodized Finish, Add	17.56	
For Aluminum, Dark Anodized Finish, Add	20.27	
For Galvanized Finish, Add	8.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	49.90	5.58
			<i>For Schedule 80 Handrail, Add</i>	2.50	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-8.05	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.15	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-12.08	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-14.28	
			<i>For Stainless Steel, Add</i>	73.22	
			<i>For Aluminum, Satin Finish, Add</i>	15.38	
			<i>For Curved Rail, Add</i>	14.97	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	23.80	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	27.46	
			<i>For Galvanized Finish, Add</i>	10.98	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....	56.18	5.58
			<i>For Schedule 80 Handrail, Add</i>	2.69	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.44	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.72	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-14.15	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.73	
			<i>For Stainless Steel, Add</i>	85.78	
			<i>For Aluminum, Satin Finish, Add</i>	18.01	
			<i>For Curved Rail, Add</i>	16.85	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	27.88	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	32.17	
			<i>For Galvanized Finish, Add</i>	12.87	
05 52 13 00-0054			<b>Remove/Reinstall Pipe Railing</b> <small>(05 52 13)</small>		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing .....	19.93	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing .....	26.10	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket .....	45.47	
			<i>For Stainless Steel, Add</i>	37.78	
05 53			<b>Metal Gratings</b> <small>(05 50)</small>		
05 53 13			<b>Bar Gratings</b> <small>(05 53)</small>		
05 53 13 00-0001			<b>Welded Grating</b> <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002			<b>Steel, Welded Grating</b> <small>(05 53 13 00-0001)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating .....	7.61	0.97
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	0.96	
			<i>For 304 Stainless Steel, Add</i>	18.17	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	1.65	
			<i>For Crossbars At 2" On-Center, Add</i>	0.61	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.45	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating .....	9.95	0.97
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.36	
			<i>For 304 Stainless Steel, Add</i>	25.68	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.34	
			<i>For Crossbars At 2" On-Center, Add</i>	0.86	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.51	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating .....	9.11	0.97
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.22	
			<i>For 304 Stainless Steel, Add</i>	22.98	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.09	
			<i>For Crossbars At 2" On-Center, Add</i>	0.77	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.49	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating .....	12.29	0.97
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.76	
			<i>For 304 Stainless Steel, Add</i>	33.19	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	3.02	
			<i>For Crossbars At 2" On-Center, Add</i>	1.12	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.57	



	<b>Metals</b>	<b>05</b>	<b>05</b>
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0007 SF 1" x 1/4" Steel, Welded Grating.....	15.47	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.30	
For 304 Stainless Steel, Add	43.40	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.95	
For Crossbars At 2" On-Center, Add	1.46	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.64	
05 53 13 00-0008 SF 1-1/4" x 1/8" Steel, Welded Grating .....	10.63	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.48	
For 304 Stainless Steel, Add	27.86	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.53	
For Crossbars At 2" On-Center, Add	0.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.52	
05 53 13 00-0009 SF 1-1/4" x 3/16" Steel, Welded Grating.....	14.50	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.13	
For 304 Stainless Steel, Add	40.29	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.66	
For Crossbars At 2" On-Center, Add	1.36	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.62	
05 53 13 00-0010 SF 1-1/2" x 1/8" Steel, Welded Grating .....	12.16	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.74	
For 304 Stainless Steel, Add	32.77	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.98	
For Crossbars At 2" On-Center, Add	1.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.56	
05 53 13 00-0011 SF 1-1/2" x 3/16" Steel, Welded Grating.....	17.27	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.53	
For 304 Stainless Steel, Add	47.76	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.34	
For Crossbars At 2" On-Center, Add	1.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.97	
05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating .....	22.10	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.35	
For 304 Stainless Steel, Add	63.27	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.76	
For Crossbars At 2" On-Center, Add	2.13	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	
05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating.....	19.63	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.93	
For 304 Stainless Steel, Add	55.34	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.03	
For Crossbars At 2" On-Center, Add	1.86	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.03	
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating.....	21.84	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.31	
For 304 Stainless Steel, Add	62.43	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.68	
For Crossbars At 2" On-Center, Add	2.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating.....	24.18	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.70	
For 304 Stainless Steel, Add	69.95	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.36	
For Crossbars At 2" On-Center, Add	2.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.15	

05	<b>05 Metals</b>
	05 50 Metal Fabrications
	05 53 Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating.....	26.39	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.08	
For 304 Stainless Steel, Add	77.04	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.01	
For Crossbars At 2" On-Center, Add	2.59	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.20	
<b>05 53 13 00-0017 Pressure Locked Grating</b> <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
<b>05 53 13 00-0018 Steel, Pressure Locked Grating</b> <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....	13.75	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.94	
For 304 Stainless Steel, Add	22.08	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.45	
For Crossbars At 2" On-Center, Add	1.27	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.60	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....	16.76	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	27.71	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.32	
For Crossbars At 2" On-Center, Add	1.60	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.68	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....	15.04	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.15	
For 304 Stainless Steel, Add	24.49	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.82	
For Crossbars At 2" On-Center, Add	1.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.63	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....	20.21	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.99	
For 304 Stainless Steel, Add	34.16	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	26.48	
For Bearing Bars At 15/16" On-Center, Add	5.33	
For Crossbars At 2" On-Center, Add	1.97	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.76	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....	16.76	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	27.71	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.32	
For Crossbars At 2" On-Center, Add	1.60	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.68	
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	22.60	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.39	
For 304 Stainless Steel, Add	38.64	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.03	
For Crossbars At 2" On-Center, Add	2.23	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.82	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	18.57	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.73	
For 304 Stainless Steel, Add	31.10	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.85	
For Crossbars At 2" On-Center, Add	1.79	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.72	





<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	25.55	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.80	
For 304 Stainless Steel, Add	43.33	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	33.58	
For Bearing Bars At 15/16" On-Center, Add	6.76	
For Crossbars At 2" On-Center, Add	2.50	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.18	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	28.08	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.21	
For 304 Stainless Steel, Add	48.07	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.50	
For Crossbars At 2" On-Center, Add	2.77	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.24	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	30.14	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.55	
For 304 Stainless Steel, Add	51.92	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.10	
For Crossbars At 2" On-Center, Add	3.00	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.30	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	32.11	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.87	
For 304 Stainless Steel, Add	55.61	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.68	
For Crossbars At 2" On-Center, Add	3.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.34	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	33.82	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.15	
For 304 Stainless Steel, Add	58.81	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.18	
For Crossbars At 2" On-Center, Add	3.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.39	
<b>05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating</b> (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....	14.35	0.97
For Bearing Bars At 15/16" On-Center, Add	3.62	
For Crossbars At 2" On-Center, Add	1.34	
For Set In Place Without Bolting, Deduct	-1.62	
For Powder Coating, Add	1.86	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....	19.43	0.97
For Bearing Bars At 15/16" On-Center, Add	5.10	
For Crossbars At 2" On-Center, Add	1.89	
For Set In Place Without Bolting, Deduct	-1.74	
For Powder Coating, Add	2.62	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....	18.34	0.97
For Bearing Bars At 15/16" On-Center, Add	4.79	
For Crossbars At 2" On-Center, Add	1.77	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.72	
For Powder Coating, Add	2.46	
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	24.91	0.97
For Bearing Bars At 7/16" On-Center, Add	33.29	
For Bearing Bars At 15/16" On-Center, Add	6.70	
For Crossbars At 2" On-Center, Add	2.48	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.88	
For Powder Coating, Add	3.44	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	21.23	0.97
For Bearing Bars At 15/16" On-Center, Add	5.63	
For Crossbars At 2" On-Center, Add	2.08	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.79	
For Powder Coating, Add	2.89	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	28.39	0.97
For Bearing Bars At 15/16" On-Center, Add	7.72	
For Crossbars At 2" On-Center, Add	2.86	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.97	
For Powder Coating, Add	3.97	

05	<b>05 Metals</b>
	05 50 Metal Fabrications
	05 53 Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating .....	23.94	0.97
For Bearing Bars At 15/16" On-Center, Add	6.42	
For Crossbars At 2" On-Center, Add	2.37	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.86	
For Powder Coating, Add	3.30	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating .....	31.98	0.97
For Bearing Bars At 7/16" On-Center, Add	43.54	
For Bearing Bars At 15/16" On-Center, Add	8.77	
For Crossbars At 2" On-Center, Add	3.24	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.06	
For Powder Coating, Add	4.50	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating .....	35.42	0.97
For Bearing Bars At 15/16" On-Center, Add	9.77	
For Crossbars At 2" On-Center, Add	3.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.14	
For Powder Coating, Add	5.02	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating .....	39.50	0.97
For Bearing Bars At 15/16" On-Center, Add	10.96	
For Crossbars At 2" On-Center, Add	4.06	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.25	
For Powder Coating, Add	5.63	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating .....	42.69	0.97
For Bearing Bars At 15/16" On-Center, Add	11.90	
For Crossbars At 2" On-Center, Add	4.40	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.33	
For Powder Coating, Add	6.11	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating .....	46.51	0.97
For Bearing Bars At 15/16" On-Center, Add	13.01	
For Crossbars At 2" On-Center, Add	4.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.42	
For Powder Coating, Add	6.68	
<b>05 53 13 00-0044 Swage Locked Grating</b> <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
<b>05 53 13 00-0045 Steel, Swage Locked Grating</b> <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating .....	22.05	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.85	
For 304 Stainless Steel, Add	33.33	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	12.86	
For Crossbars At 2" On-Center, Add	1.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.81	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating .....	24.52	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.08	
For 304 Stainless Steel, Add	37.42	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	14.44	
For Crossbars At 2" On-Center, Add	1.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.87	
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating .....	26.91	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.26	
For 304 Stainless Steel, Add	40.65	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	15.69	
For Crossbars At 2" On-Center, Add	1.96	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.21	
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating .....	30.70	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.60	
For 304 Stainless Steel, Add	46.94	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	18.12	
For Crossbars At 2" On-Center, Add	2.26	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.31	



	<b>Metals</b>	<b>05</b>	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0050	SF		2" x 3/16" Steel, Swaged Grating.....	34.52	1.20
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.96	
			For 304 Stainless Steel, Add	53.27	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	20.56	
			For Crossbars At 2" On-Center, Add	2.57	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.40	
05 53 13 00-0051	SF		2-1/4" x 3/16" Steel, Swaged Grating.....	38.32	1.20
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.31	
			For 304 Stainless Steel, Add	59.57	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	23.00	
			For Crossbars At 2" On-Center, Add	2.87	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.50	
05 53 13 00-0052	SF		2-1/2" x 3/16" Steel, Swaged Grating.....	42.13	1.20
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.66	
			For 304 Stainless Steel, Add	65.89	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	25.43	
			For Crossbars At 2" On-Center, Add	3.18	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.59	
<b>05 53 13 00-0053</b>			<b>Aluminum Grating, Type 6063, Swage Locked</b> <small>(05 53 13 00-0044)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054	SF		1" x 1/8" Aluminum, Swaged Grating.....	16.93	0.97
			For Bearing Bars At 15/16" On-Center, Add	9.59	
			For Crossbars At 2" On-Center, Add	1.20	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.68	
			For Powder Coating, Add	2.25	
05 53 13 00-0055	SF		1" x 3/16" Aluminum, Swaged Grating.....	21.95	0.97
			For Bearing Bars At 15/16" On-Center, Add	12.80	
			For Crossbars At 2" On-Center, Add	1.60	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.81	
			For Powder Coating, Add	3.00	
05 53 13 00-0056	SF		1-1/4" x 1/8" Aluminum, Swaged Grating.....	19.19	0.97
			For Bearing Bars At 15/16" On-Center, Add	11.03	
			For Crossbars At 2" On-Center, Add	1.38	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.74	
			For Powder Coating, Add	2.59	
05 53 13 00-0057	SF		1-1/4" x 3/16" Aluminum, Swaged Grating.....	25.32	0.97
			For Bearing Bars At 15/16" On-Center, Add	14.96	
			For Crossbars At 2" On-Center, Add	1.87	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.89	
			For Powder Coating, Add	3.51	
05 53 13 00-0058	SF		1-1/2" x 1/8" Aluminum, Swaged Grating.....	21.86	0.97
			For Bearing Bars At 15/16" On-Center, Add	12.74	
			For Crossbars At 2" On-Center, Add	1.59	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.80	
			For Powder Coating, Add	2.99	
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating.....	28.94	0.97
			For Bearing Bars At 15/16" On-Center, Add	17.27	
			For Crossbars At 2" On-Center, Add	2.16	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.98	
			For Powder Coating, Add	4.05	
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating.....	33.10	0.97
			For Bearing Bars At 15/16" On-Center, Add	19.94	
			For Crossbars At 2" On-Center, Add	2.49	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.09	
			For Powder Coating, Add	4.67	
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating.....	37.24	0.97
			For Bearing Bars At 15/16" On-Center, Add	22.59	
			For Crossbars At 2" On-Center, Add	2.82	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.19	
			For Powder Coating, Add	5.29	
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating.....	41.40	0.97
			For Bearing Bars At 15/16" On-Center, Add	25.25	
			For Crossbars At 2" On-Center, Add	3.16	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.29	
			For Powder Coating, Add	5.92	

05	05	Metals
	05 50	Metal Fabrications
	05 53	Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating .....	45.54	0.97
For Bearing Bars At 15/16" On-Center, Add	27.90	
For Crossbars At 2" On-Center, Add	3.49	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.40	
For Powder Coating, Add	6.54	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating .....	41.26	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.89	
For 304 Stainless Steel, Add	33.77	
For 5/8" Clear Opening, Add	13.56	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating .....	48.45	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.23	
For 304 Stainless Steel, Add	39.94	
For 5/8" Clear Opening, Add	16.04	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.47	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating .....	44.57	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.05	
For 304 Stainless Steel, Add	36.61	
For 5/8" Clear Opening, Add	14.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.37	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating .....	51.20	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	42.31	
For 5/8" Clear Opening, Add	16.99	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.54	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating .....	47.32	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.18	
For 304 Stainless Steel, Add	38.97	
For 5/8" Clear Opening, Add	15.65	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.44	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating .....	56.30	0.97
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.61	
For 304 Stainless Steel, Add	46.69	
For 5/8" Clear Opening, Add	18.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.67	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating .....	50.40	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.30	
For 304 Stainless Steel, Add	41.24	
For 5/8" Clear Opening, Add	16.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.80	
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating .....	60.01	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.77	
For 304 Stainless Steel, Add	49.50	
For 5/8" Clear Opening, Add	19.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.04	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating .....	64.91	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.00	
For 304 Stainless Steel, Add	53.70	
For 5/8" Clear Opening, Add	21.57	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.16	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating .....	75.85	1.20
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.53	
For 304 Stainless Steel, Add	63.10	
For 5/8" Clear Opening, Add	25.34	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.44	



<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	79.67	1.20
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.71	
			For 304 Stainless Steel, Add	66.38	
			For 5/8" Clear Opening, Add	26.66	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.53	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	83.07	1.20
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.87	
			For 304 Stainless Steel, Add	69.30	
			For 5/8" Clear Opening, Add	27.83	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.62	
<b>05 53 13 00-0078</b>			<b>Aluminum, Riveted Grating</b> (05 53 13 00-0064)		
			Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	36.17	0.97
			For 5/8" Clear Opening, Add	11.81	
			For Powder Coating, Add	5.13	
			For Set In Place Without Bolting, Deduct	-2.16	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	42.94	0.97
			For 5/8" Clear Opening, Add	14.14	
			For Powder Coating, Add	6.15	
			For Set In Place Without Bolting, Deduct	-2.33	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	39.78	0.97
			For 5/8" Clear Opening, Add	13.05	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	5.67	
			For Set In Place Without Bolting, Deduct	-2.25	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	46.40	0.97
			For 5/8" Clear Opening, Add	15.34	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	6.67	
			For Set In Place Without Bolting, Deduct	-2.42	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	44.62	0.97
			For 5/8" Clear Opening, Add	14.72	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	6.40	
			For Set In Place Without Bolting, Deduct	-2.37	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	53.80	0.97
			For 5/8" Clear Opening, Add	17.89	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	7.78	
			For Set In Place Without Bolting, Deduct	-2.60	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	47.93	0.97
			For 5/8" Clear Opening, Add	15.86	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	6.90	
			For Set In Place Without Bolting, Deduct	-2.46	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	59.58	0.97
			For 5/8" Clear Opening, Add	19.88	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	8.64	
			For Set In Place Without Bolting, Deduct	-2.75	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	65.70	0.97
			For 5/8" Clear Opening, Add	21.99	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	9.56	
			For Set In Place Without Bolting, Deduct	-2.90	
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	78.25	0.97
			For 5/8" Clear Opening, Add	26.32	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	11.45	
			For Set In Place Without Bolting, Deduct	-3.21	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	85.37	0.97
			For 5/8" Clear Opening, Add	28.78	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	12.51	
			For Set In Place Without Bolting, Deduct	-3.39	
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	94.92	0.97
			For 5/8" Clear Opening, Add	32.07	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	13.95	
			For Set In Place Without Bolting, Deduct	-3.63	
<b>05 53 16</b>			<b>Plank Gratings</b> (05 53)		
05 53 16 00-0001			<b>Grate-Lock Steel Plank Grating</b> (05 53 16)		
			Note: Smooth or traction grip surface.		
05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	10.60	0.76
			For Stair Tread Application, Add	1.29	
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	11.40	0.93
			For Stair Tread Application, Add	1.42	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 16 00-0004 SF 3" Height, 18 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	12.04 1.51	1.02
05 53 16 00-0005 SF 4" Height, 18 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	13.16 1.65	1.10
05 53 16 00-0006 SF 1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	12.88 1.54	0.84
05 53 16 00-0007 SF 2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	13.77 1.68	1.02
05 53 16 00-0008 SF 1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	15.77 1.87	0.97
05 53 16 00-0009 SF 2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	16.88 2.05	1.20
05 53 16 00-0010 SF 3" Height, 14 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	18.21 2.27	1.50
05 53 16 00-0011 SF 4" Height, 14 Gauge Steel Grate-Lock Plank Grating ..... <i>For Stair Tread Application, Add</i>	20.10 2.51	1.69

05 54 Metal Floor Plates (05 50)05 54 00 00-0001 Steel Floor Plates (05 54)

05 54 00 00-0002 SF 16 Gauge Steel Raised Or Diamond Pattern Floor Plates .....	12.37	1.15
05 54 00 00-0003 SF 14 Gauge Steel Raised Or Diamond Pattern Floor Plates .....	14.08	1.15
05 54 00 00-0004 SF 12 Gauge Steel Raised Or Diamond Pattern Floor Plates .....	17.52	1.15
05 54 00 00-0005 SF 1/8" Steel Raised Or Diamond Pattern Floor Plates.....	23.38	1.24
05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates.....	29.56	1.33

05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)

05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	17.87 2.39	0.97
05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	20.50 2.74	1.15
05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	23.13 3.10	1.24

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)

05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	27.04	1.33
05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.32	1.50
05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	41.82	1.77

05 55 Metal Stair Treads And Nosings (05 50)05 55 13 Metal Stair Treads (05 55)05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	44.83 9.00	5.52
05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	49.07 10.06	5.52
05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	53.29 11.12	5.52
05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	57.53 12.18	5.52
05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	61.74 13.23	5.52

05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....	61.25	5.52
05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....	67.52	5.52
05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....	73.80	5.52
05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....	80.07	5.52
05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....	86.36	5.52

05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014 LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	25.04	5.52
05 55 13 00-0015 LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread .....	28.87	5.52
05 55 13 00-0016 LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread .....	30.56	5.52





<b>Metals</b>	<b>05</b>	<b>05</b>
<b>Metal Fabrications</b>	<b>05 50</b>	
<b>Metal Stair Treads And Nosings</b>	<b>05 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads</b> <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	35.62 2.66 2.00	5.52
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	35.94 2.66 2.00	5.52
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	42.84 2.66 2.00	5.52
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	48.88 2.66 2.00	5.52
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	56.76 2.66 2.00	5.52
<b>05 55 13 00-0023 Stair Landing Treads</b> <small>(05 55 13)</small>		
<b>05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads ..... <i>For 3/8" Thick, Add</i>	61.74 13.23	5.52
<b>05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads .....	86.36	5.52
<b>05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	57.45 2.66	5.52
<b>05 55 13 00-0030 Open Cast Iron Stair Tread</b> <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	428.78 36.55	35.43
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	483.88 41.12	40.74
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	534.62 45.36	47.84
<b>05 55 16 Metal Stair Nosings</b> <small>(05 55)</small>		
<b>05 55 16 00-0001 Abrasive Cast Aluminum Nosings</b> <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing ..... <i>For 3/8" Thick, Add</i>	19.69 3.42	3.76
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing ..... <i>For 3/8" Thick, Add</i>	23.78 4.44	3.76
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing ..... <i>For 3/8" Thick, Add</i>	32.88 6.72	3.76
<b>05 55 16 00-0005 Abrasive Cast Iron Nosings</b> <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	22.67 4.16	3.76
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	27.70 5.42	3.76
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	37.65 7.91	3.76
<b>05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings</b> <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	16.92	3.76
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.89	3.76
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	20.39	3.76
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	25.07	3.76
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	17.45	3.76

**05 Metals****05 50 Metal Fabrications****05 55 Metal Stair Treads And Nosings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 16 00-0015	LF		3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.13	3.76
05 55 16 00-0016	LF		4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	20.79	3.76
05 55 16 00-0017	LF		3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.78	3.76
<b>05 56 Metal Castings (05 50)</b>					
<b>05 56 00 00-0001 Castings (05 56)</b>					
05 56 00 00-0002	LB		Up To 150 LB, Miscellaneous Castings, Light Section.....	3.49	0.44
05 56 00 00-0003	LB		>150 LB, Miscellaneous Castings, Heavy Section.....	5.73	0.36
<b>05 58 Formed Metal Fabrications (05 50)</b>					
<b>05 58 16 Formed Metal Enclosures (05 58)</b>					
<b>05 58 16 00-0001 Drip Pan (05 58 16)</b>					
05 58 16 00-0002	SF		Stainless Steel Drip Pan.....	68.01	5.23
05 58 16 00-0003	SF		Galvanized Steel Drip Pan.....	67.22	5.23
05 58 16 00-0004	SF		Aluminum Drip Pan.....	47.44	4.18
05 58 16 00-0005	SF		Plastic Drip Pan.....	13.58	3.66
<b>05 58 23 Formed Metal Guards (05 58)</b>					
<b>05 58 23 00-0001 Protective Guard Rails (05 58 23)</b>					
Note: Includes painted finish.					
<b>05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)</b>					
Note: Steel King Armor Guard.					
<b>05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)</b>					
Note: Excludes posts. Includes fasteners.					
05 58 23 00-0004	EA		1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	128.75	18.06
05 58 23 00-0005	EA		2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	149.91	18.06
05 58 23 00-0006	EA		3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	169.87	18.06
05 58 23 00-0007	EA		4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	191.03	18.06
05 58 23 00-0008	EA		5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	211.10	18.06
05 58 23 00-0009	EA		6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	237.13	18.06
05 58 23 00-0010	EA		7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	254.86	18.06
05 58 23 00-0011	EA		8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	282.31	18.06
05 58 23 00-0012	EA		9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	300.32	18.06
05 58 23 00-0013	EA		10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	313.19	18.06
<b>05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)</b>					
Note: Includes drilling, surface mounting plate and anchors.					
05 58 23 00-0015	EA		12" Height, Single Rail Post For 2-Rib Guard Rails.....	262.81	37.61
05 58 23 00-0016	EA		42" Height, Triple Rail Post For 2-Rib Guard Rails.....	336.30	37.61
<b>05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)</b>					
Note: Steel King Steel Guard.					
<b>05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)</b>					
Note: Excludes posts. Includes fasteners.					
05 58 23 00-0019	EA		1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	141.50	18.06
05 58 23 00-0020	EA		2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	155.57	18.06
05 58 23 00-0021	EA		3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	173.13	18.06
05 58 23 00-0022	EA		4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	189.54	18.06
05 58 23 00-0023	EA		5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	208.53	18.06
05 58 23 00-0024	EA		6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	217.68	18.06
05 58 23 00-0025	EA		7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	239.70	18.06
05 58 23 00-0026	EA		8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	258.29	18.06
05 58 23 00-0027	EA		9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	278.02	18.06
05 58 23 00-0028	EA		10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	298.04	18.06
<b>05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)</b>					
Note: Excludes posts. Includes fasteners and lift-out mounting plate.					
05 58 23 00-0030	EA		1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	204.81	18.06
05 58 23 00-0031	EA		2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	220.25	18.06
05 58 23 00-0032	EA		3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	236.27	18.06
05 58 23 00-0033	EA		4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	254.86	18.06
05 58 23 00-0034	EA		5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	273.44	18.06
05 58 23 00-0035	EA		6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	288.60	18.06
05 58 23 00-0036	EA		7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	306.04	18.06
05 58 23 00-0037	EA		8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	325.77	18.06
05 58 23 00-0038	EA		9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	346.94	18.06
05 58 23 00-0039	EA		10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	365.52	18.06



<b>Metals</b>	<b>05</b>	<b>05</b>
<b>Metal Fabrications</b>	<b>05 50</b>	
<b>Formed Metal Fabrications</b>	<b>05 58</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 58 23 00-0040</b> Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small> Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041 EA 18" Height, Single Rail Post For 3-Rib Guard Rails .....	233.53	37.61
05 58 23 00-0042 EA 42" Height, Double Rail Post For 3-Rib Guard Rails .....	293.12	37.61
<b>05 58 23 00-0043</b> All-Welded, Protective Guards <small>(05 58 23)</small> Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
<b>05 58 23 00-0044</b> All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0045 EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	305.32	50.15
05 58 23 00-0046 EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	319.62	50.15
05 58 23 00-0047 EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	327.92	50.15
05 58 23 00-0048 EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	340.21	50.15
05 58 23 00-0049 EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	337.35	50.15
05 58 23 00-0050 EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	352.51	50.15
05 58 23 00-0051 EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	356.80	50.15
05 58 23 00-0052 EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	361.66	50.15
05 58 23 00-0053 EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....	384.82	50.15
<b>05 58 23 00-0054</b> Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0055 EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....	393.97	50.15
05 58 23 00-0056 EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....	411.13	50.15
05 58 23 00-0057 EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....	418.28	50.15
05 58 23 00-0058 EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....	453.45	50.15
<b>05 58 23 00-0059</b> Warehouse Safety Bollards <small>(05 58 23)</small> Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard .....	199.34	37.61
05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard .....	227.60	37.61
05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard .....	257.51	37.61
05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard .....	265.69	37.61
05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard .....	284.56	37.61
<b>05 59 Metal Specialties</b> <small>(05 50)</small>		
<b>05 59 65 Metal Chain</b> <small>(05 59)</small>		
<b>05 59 65 00-0001</b> Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small> Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	4.26	0.86
For Plastic Dipped, Add	0.38	
05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	5.71	1.15
For Plastic Dipped, Add	0.51	
05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	9.19	2.29
For Plastic Dipped, Add	0.69	
05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	14.82	3.86
For Plastic Dipped, Add	1.06	
05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	25.01	6.53
For Plastic Dipped, Add	1.79	
05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	35.11	9.17
For Plastic Dipped, Add	2.52	
05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	47.51	11.46
For Plastic Dipped, Add	3.69	
05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	68.26	15.27
For Plastic Dipped, Add	5.66	
05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored .....	110.37	22.91
For Plastic Dipped, Add	9.68	

**END OF SECTION 05**

05	<b>05</b>	<b>Metals</b>
	05 50	Metal Fabrications
	05 59	Metal Specialties




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MINOR	CSI	UOM	DESCRIPTION
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TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 07 Thermal And Moisture Protection

### 07 10 Dampproofing And Waterproofing <sup>(07)</sup>

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

#### 07 11 Dampproofing <sup>(07 10)</sup>

##### 07 11 13 Bituminous Dampproofing <sup>(07 11)</sup>

##### 07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray <sup>(07 11 13)</sup>

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray .....	129.45
07 11 13 00-0003	CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray .....	203.92

##### 07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On <sup>(07 11 13)</sup>

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On .....	218.68
07 11 13 00-0006	CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On .....	333.23

##### 07 11 13 00-0007 Asphaltic Paint Dampproofing <sup>(07 11 13)</sup>

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On .....	105.76
07 11 13 00-0009	CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On .....	194.77

##### 07 11 19 Sheet Dampproofing <sup>(07 11)</sup>

##### 07 11 19 00-0001 Neoprene <sup>(07 11 19)</sup>

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5 To 20 SF) .....	29.86
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#### 07 13 Sheet Waterproofing <sup>(07 10)</sup>

##### 07 13 13 Bituminous Sheet Waterproofing <sup>(07 13)</sup>

##### 07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped <sup>(07 13 13)</sup>

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	244.28		90.46
	<i>For 30 LB Felt, Add</i>	47.53		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-27.14		
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	303.23		101.76
	<i>For 30 LB Felt, Add</i>	74.78		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-30.53		
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	362.20		113.06
	<i>For 30 LB Felt, Add</i>	102.05		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-33.92		
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	421.15		124.38
	<i>For 30 LB Felt, Add</i>	129.30		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.31		
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	480.12		135.68
	<i>For 30 LB Felt, Add</i>	156.56		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-40.71		

##### 07 13 13 00-0007 Asphalt Coated Protective Board <sup>(07 13 13)</sup>

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board .....	223.67		89.65
	<i>For Application To Horizontal Surfaces, Deduct</i>	-29.90		
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board .....	298.96		93.09
	<i>For Application To Horizontal Surfaces, Deduct</i>	-31.03		
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board .....	389.72		97.01
	<i>For Application To Horizontal Surfaces, Deduct</i>	-32.32		
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board .....	435.86		100.91
	<i>For Application To Horizontal Surfaces, Deduct</i>	-33.65		

##### 07 13 53 Elastomeric Sheet Waterproofing <sup>(07 13)</sup>

##### 07 13 53 00-0001 Rubberized Membrane Sheet <sup>(07 13 53)</sup>

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface .....	6.25		0.93
	<i>For Floor Surfaces, Deduct</i>	-0.92		

##### 07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) <sup>(07 13 53)</sup>

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane .....	429.80		130.33
	<i>For Application To Horizontal Surfaces, Deduct</i>	-39.09		
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane .....	507.89		130.33
	<i>For Application To Horizontal Surfaces, Deduct</i>	-39.09		

**07 Thermal And Moisture Protection****07 10 Dampproofing And Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			<b>Butyl Sheet Waterproofing</b> (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing .....	87.00	32.58
			<i>For Joint Taping, Add</i>	11.86	
			<i>For Each Additional Ply, Add</i>	64.17	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing .....	104.29	32.58
			<i>For Joint Taping, Add</i>	12.72	
			<i>For Each Additional Ply, Add</i>	76.27	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0009			<b>Butyl With Nylon</b> (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon .....	96.88	32.58
			<i>For Joint Taping, Add</i>	12.35	
			<i>For Each Additional Ply, Add</i>	71.08	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon .....	108.00	32.58
			<i>For Joint Taping, Add</i>	12.91	
			<i>For Each Additional Ply, Add</i>	78.87	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0012			<b>Neoprene Sheet Waterproofing</b> (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing .....	153.76	32.58
			<i>For Joint Taping, Add</i>	15.20	
			<i>For Each Additional Ply, Add</i>	110.90	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing .....	227.37	32.58
			<i>For Joint Taping, Add</i>	18.88	
			<i>For Each Additional Ply, Add</i>	162.42	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0015			<b>Neoprene With Nylon</b> (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon .....	161.44	32.58
			<i>For Joint Taping, Add</i>	15.58	
			<i>For Each Additional Ply, Add</i>	116.27	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon .....	239.64	32.58
			<i>For Joint Taping, Add</i>	19.49	
			<i>For Each Additional Ply, Add</i>	171.01	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.90	
07 13 53 00-0018			<b>Plastic Vapor Barrier (Polyethylene)</b> (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier .....	31.26	12.23
			<i>For Joint Taping, Add</i>	7.79	
			<i>For Each Additional Ply, Add</i>	24.59	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.06	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier .....	31.86	12.23
			<i>For Joint Taping, Add</i>	7.82	
			<i>For Each Additional Ply, Add</i>	25.01	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.06	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier .....	47.24	12.23
			<i>For Joint Taping, Add</i>	8.59	
			<i>For Each Additional Ply, Add</i>	35.78	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.06	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite .....	146.68	12.23
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			<i>For Each Additional Ply, Add</i>	105.68	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.51	
07 13 53 00-0023			<b>Plastic Vapor Barrier (PVC)</b> (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier .....	51.72	13.54
			<i>For Joint Taping, Add</i>	8.81	
			<i>For Each Additional Ply, Add</i>	38.91	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.06	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier .....	70.68	14.04
			<i>For Joint Taping, Add</i>	10.00	
			<i>For Each Additional Ply, Add</i>	52.29	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.22	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier .....	96.31	14.54
			<i>For Joint Taping, Add</i>	11.50	
			<i>For Each Additional Ply, Add</i>	70.32	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.36	
07 13 53 00-0027			<b>Vinyl Plastic Vapor Barrier</b> (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4) .....	35.88	12.53





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**07 14 Fluid-Applied Waterproofing** (07 10)

**07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing** (07 14)

<b>07 14 13 00-0001</b>			<b>Hot Applied Rubberized Asphalt Waterproofing Coating</b> <small>(07 14 13)</small>		
07 14 13 00-0002	SF		90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.73	
			Note: Includes primer.		
			<i>For Application To Horizontal Surfaces, Deduct</i>	-0.17	
			<i>For Reinforcing Fabric, Add</i>	0.37	
07 14 13 00-0003	SF		125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.00	
			Note: Includes primer.		
			<i>For Application To Horizontal Surfaces, Deduct</i>	-0.18	
			<i>For Reinforcing Fabric, Add</i>	0.37	

**07 14 16 Cold Fluid-Applied Waterproofing** (07 14)

<b>07 14 16 00-0001</b>			<b>Fluid Applied Rubber Based Polyurethane</b> <small>(07 14 16)</small>		
07 14 16 00-0002	SF		60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.29	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-0.39	
07 14 16 00-0003	SF		90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.76	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-0.41	
07 14 16 00-0004	SF		120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.26	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-0.44	
<b>07 14 16 00-0005</b>			<b>One Part Solution Of Chlorosulfonated Polyethylene Polymer</b> <small>(07 14 16)</small>		
07 14 16 00-0006	SF		15 Mil Finish Coat, Chlorosulfonated Polyethylene (CSM) Polymer, 1 Part Solution.....	2.23	
<b>07 14 16 00-0007</b>			<b>Copolymer Compound</b> <small>(07 14 16)</small>		
07 14 16 00-0008	SF		Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	3.54	
<b>07 14 16 00-0009</b>			<b>Fluid Applied Neoprene</b> <small>(07 14 16)</small>		
07 14 16 00-0010	CSF		1/8" Fiberglass Reinforced, Fluid Neoprene.....	411.80	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-47.48	
07 14 16 00-0011	CSF		50 Mil, 4 Coats, Fluid Neoprene.....	836.84	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-93.14	
07 14 16 00-0012	CSF		90 Mil, 4 Coats, Fluid Neoprene.....	1,362.76	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-139.64	

**07 16 Cementitious And Reactive Waterproofing** (07 10)

**07 16 13 Polymer Modified Cement Waterproofing** (07 16)

07 16 13 00-0001	SF		Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	3.86	
			Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		

**07 16 16 Crystalline Waterproofing** (07 16)

07 16 16 00-0001	SF		Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	4.53	
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**07 16 19 Metal Oxide Waterproofing** (07 16)

<b>07 16 19 00-0001</b>			<b>Metallic Oxide Waterproofing</b> <small>(07 16 19)</small>		
			Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.		
07 16 19 00-0002	CSF		Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	398.70	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-52.62	

**07 19 Water Repellents** (07 10)

**07 19 13 Acrylic Sealer** (07 19)

Note: Per coat.					
07 19 13 00-0001	SF		Spray On Concrete, Acrylic Sealer.....	2.00	
07 19 13 00-0002	SF		Spray On Concrete Block/Brick, Acrylic Sealer.....	2.38	
07 19 13 00-0003	SF		Spray On Stone, Acrylic Sealer.....	2.61	

**07 19 16 Silane Water Repellents** (07 19)

<b>07 19 16 00-0001</b>			<b>Silane Concrete Sealer</b> <small>(07 19 16)</small>		
07 19 16 00-0002	SF		Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.47	
07 19 16 00-0003	SF		Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.69	

**07 Thermal And Moisture Protection****07 10 Dampproofing And Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
07 19 16 00-0004		<b>Silane/Siloxane Concrete Sealer</b> <small>(07 19 16)</small>			
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) .....		0.80	
		Note: 40% silane, alcohol based.			
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) .....		1.16	
		Note: 40% silane, alcohol based.			
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB) .....		0.34	
		Note: 200 SF/GAL			
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB).....		0.48	

**END OF SECTION 07**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 09 Finishes

### 09 01 Maintenance Of Finishes (09)

#### 09 01 90 Maintenance Of Painting And Coating (09 01)

#### 09 01 90 52 Maintenance Repainting (09 01 90)

##### 09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.

##### 09 01 90 52-0002 Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.45	
	For Up To 100, Add	0.78	
	For >100 To 250, Add	0.20	
	For >250 To 500, Add	0.10	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.04	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.09	
09 01 90 52-0004	SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation .....	0.72	
	For Up To 100, Add	1.24	
	For >100 To 250, Add	0.31	
	For >250 To 500, Add	0.16	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.07	
	For >15,000 To 30,000, Deduct	-0.11	
	For >30,000, Deduct	-0.14	
09 01 90 52-0005	SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation.....	0.64	
	For Up To 100, Add	1.28	
	For >100 To 250, Add	0.32	
	For >250 To 500, Add	0.16	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.10	
	For >30,000, Deduct	-0.13	
09 01 90 52-0006	SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.65	
	For Up To 100, Add	1.12	
	For >100 To 250, Add	0.28	
	For >250 To 500, Add	0.14	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.09	
	For >30,000, Deduct	-0.13	
09 01 90 52-0007	SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation.....	0.42	
	For Up To 100, Add	0.68	
	For >100 To 250, Add	0.17	
	For >250 To 500, Add	0.09	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.04	
	For >15,000 To 30,000, Deduct	-0.06	
	For >30,000, Deduct	-0.08	
09 01 90 52-0008	SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation .....	1.20	
	For Up To 100, Add	2.16	
	For >100 To 250, Add	0.54	
	For >250 To 500, Add	0.27	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 15,000, Deduct	-0.12	
	For >15,000 To 30,000, Deduct	-0.18	
	For >30,000, Deduct	-0.23	
09 01 90 52-0009	SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation .....	2.00	
	For Up To 100, Add	3.76	
	For >100 To 250, Add	0.94	
	For >250 To 500, Add	0.47	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 15,000, Deduct	-0.20	
	For >15,000 To 30,000, Deduct	-0.30	
	For >30,000, Deduct	-0.39	
09 01 90 52-0010	SF Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation .....	2.72	
	For Heavy Condition Where Multiple Pass Is Required, Add	1.36	
	For Up To 100, Add	4.90	
	For >100 To 250, Add	1.23	
	For >250 To 500, Add	0.61	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 15,000, Deduct	-0.26	
	For >15,000 To 30,000, Deduct	-0.40	
	For >30,000, Deduct	-0.53	

##### 09 01 90 52-0011 Metal Surfaces, Surface Preparation (09 01 90 52-0001)

## 09 Finishes

## 09 01 Maintenance Of Finishes

## 09 01 90 Maintenance Of Painting And Coating



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0012 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation .....	0.72	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	
09 01 90 52-0013 SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation .....	0.64	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.13	
09 01 90 52-0014 SF Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation .....	0.40	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0015 SF Power Tool Cleaning, Metal Surfaces, Surface Preparation .....	1.16	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.17	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.23	
09 01 90 52-0016 SF Steam Cleaning, Metal Surfaces, Surface Preparation .....	0.40	
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0017 SF Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation .....	0.87	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.17	
09 01 90 52-0018 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation .....	1.18	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.23	
09 01 90 52-0019 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation .....	1.74	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.16	
For >15,000 To 30,000, Deduct	-0.25	
For >30,000, Deduct	-0.34	
09 01 90 52-0020 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation .....	2.90	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
09 01 90 52-0021 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation .....	2.20	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 15,000, Deduct	-0.21	
For >15,000 To 30,000, Deduct	-0.32	
For >30,000, Deduct	-0.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation .....	2.72	
For Up To 100, Add	1.73	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.26	
For >15,000 To 30,000, Deduct	-0.40	
For >30,000, Deduct	-0.52	
09 01 90 52-0023 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation .....	3.53	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.45	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 15,000, Deduct	-0.33	
For >15,000 To 30,000, Deduct	-0.51	
For >30,000, Deduct	-0.68	
09 01 90 52-0024 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation .....	4.42	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.56	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 15,000, Deduct	-0.42	
For >15,000 To 30,000, Deduct	-0.64	
For >30,000, Deduct	-0.85	
<b>09 01 90 52-0025 Tile Surfaces</b> (09 01 90 52-0001)		
09 01 90 52-0026 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surface .....	41.25	
For Up To 100, Add	30.78	
For >100 To 250, Add	14.36	
For >250 To 500, Add	6.16	
For >5,000 To 10,000, Deduct	-2.06	
For >10,000 To 15,000, Deduct	-4.12	
For >15,000 To 30,000, Deduct	-6.18	
For >30,000, Deduct	-8.24	
09 01 90 52-0027 SF Up To 5,000 PSI, Pressure Wash Tile Surface .....	0.29	
For Up To 100, Add	0.19	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.04	
For >30,000, Deduct	-0.06	
<b>09 01 90 52-0028 Wood Surfaces</b> (09 01 90 52-0001)		
09 01 90 52-0029 SF Chemical Clean, Brush And Wash Wood Surface .....	0.58	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.11	
09 01 90 52-0030 SF Hand Scrape Wood Surface .....	0.71	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	
09 01 90 52-0031 SF Steam Clean Wood Surface .....	0.64	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 01 90 52-0032 SF Up To 5,000 PSI, Pressure Wash Wood Surface .....	0.44	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.09	
09 01 90 52-0033 SF Sanding Wood Paneling, Boards, Doors, Etcetera .....	0.84	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.17	

**09 Finishes**  
**09 01 Maintenance Of Finishes**  
**09 01 90 Maintenance Of Painting And Coating**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034	SF		Sanding Wood Trim .....	1.13	
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.17	
			For >30,000, Deduct	-0.22	
09 01 90 52-0035	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening .....	1.30	
			For Up To 100, Add	0.95	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.13	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.26	
09 01 90 52-0036	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat.....	0.73	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	
09 01 90 52-0037	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat.....	0.85	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.13	
			For >30,000, Deduct	-0.17	
<b>09 01 90 52-0038</b>			<b>Vinyl Siding Surfaces (09 01 90 52-0001)</b>		
09 01 90 52-0039	SF		Hand Wash, Vinyl Siding Surfaces.....	0.65	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.13	
09 01 90 52-0040	SF		Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces .....	0.36	
			For Up To 100, Add	0.22	
			For >100 To 250, Add	0.10	
			For >250 To 500, Add	0.04	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.03	
			For >15,000 To 30,000, Deduct	-0.05	
			For >30,000, Deduct	-0.07	
09 01 90 52-0041	SF		Steam Clean, Vinyl Siding Surfaces.....	0.67	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.13	
<b>09 01 90 52-0042</b>			<b>Prep Work (09 01 90 52-0001)</b>		
09 01 90 52-0043	SF		Citrus Strip, Single Applications.....	1.06	
<b>09 01 90 52-0044</b>			<b>Plaster/Stucco (09 01 90 52-0001)</b>		
			Note: Based on total project quantity.		
09 01 90 52-0045	SF		Up To 5,000 PSI Pressure Wash Stucco Surfaces .....	0.47	
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.09	
<b>09 01 90 91</b>			<b>Paint Restoration (09 01 90)</b>		
<b>09 01 90 91-0001</b>			<b>Paint Removal, Strip To Bare Wood (09 01 90 91)</b>		
09 01 90 91-0002	SF		Flat Surfaces, Paint Removal, Strip To Bare Wood .....	7.53	
09 01 90 91-0003	SF		Corices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood .....	8.03	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 09 90 Painting And Coating <sup>(09)</sup>

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.

### 09 91 Painting <sup>(09 90)</sup>

#### 09 91 13 Exterior Painting <sup>(09 91)</sup>

Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

#### 09 91 13 00-0001 Paint Exterior Walls/Siding <sup>(09 91 13)</sup>

#### 09 91 13 00-0002 Paint Exterior Brick Walls <sup>(09 91 13 00-0001)</sup>

09 91 13 00-0003	SF Paint Exterior Brick Walls, 1 Coat Filler, Brush Work.....	0.90	
	For Oil Based Paint, Add	0.05	
	For Work >20', Add	0.19	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	0.60	
	For >100 To 250, Add	0.28	
	For >250 To 500, Add	0.12	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.18	
09 91 13 00-0004	SF Paint Exterior Brick Walls, 1 Coat Paint, Brush Work .....	1.29	
	For Oil Based Paint, Add	0.07	
	For Work >20', Add	0.29	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	0.88	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.19	
	For >20,000, Deduct	-0.26	
09 91 13 00-0005	SF Paint Exterior Brick Walls, 2 Coats Paint, Brush Work.....	1.84	
	For Oil Based Paint, Add	0.11	
	For Work >20', Add	0.39	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	1.20	
	For >100 To 250, Add	0.57	
	For >250 To 500, Add	0.25	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.18	
	For >10,000 To 20,000, Deduct	-0.28	
	For >20,000, Deduct	-0.37	
09 91 13 00-0006	SF Paint Exterior Brick Walls, 1 Coat Filler, Brush/Roller Work.....	0.58	
	For Oil Based Paint, Add	0.04	
	For Work >20', Add	0.11	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	0.36	
	For >100 To 250, Add	0.17	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 20,000, Deduct	-0.09	
	For >20,000, Deduct	-0.12	
09 91 13 00-0007	SF Paint Exterior Brick Walls, 1 Coat Paint, Brush/Roller Work .....	0.97	
	For Oil Based Paint, Add	0.06	
	For Work >20', Add	0.20	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	0.61	
	For >100 To 250, Add	0.29	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.19	
09 91 13 00-0008	SF Paint Exterior Brick Walls, 2 Coats Paint, Brush/Roller Work .....	1.42	
	For Oil Based Paint, Add	0.09	
	For Work >20', Add	0.27	
	Note: Applied only to work area above 20'.		
	For Up To 100, Add	0.86	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.21	
	For >20,000, Deduct	-0.28	

**09 Finishes**  
**09 90 Painting And Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009	SF		Paint Exterior Brick Walls, 1 Coat Filler, Sprayed .....	0.51	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
09 91 13 00-0010	SF		Paint Exterior Brick Walls, 1 Coat Paint, Sprayed .....	0.50	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.24	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
09 91 13 00-0011	SF		Paint Exterior Brick Walls, 2 Coats Paint, Sprayed .....	1.08	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	
<b>09 91 13 00-0012</b>			<b>Paint Exterior Concrete Walls (09 91 13 00-0001)</b>		
09 91 13 00-0013	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush Work .....	0.77	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 91 13 00-0014	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Brush Work .....	0.84	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0015	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Brush Work .....	1.57	
			For Oil Based Paint, Add	0.09	
			For Epoxy Paint, Add	0.13	
			For Work >20', Add	0.35	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.08	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0016	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush/Roller Work .....	0.60	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0017 SF Paint Exterior Concrete Walls, 1 Coat Paint, Brush/Roller Work.....	0.71	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0018 SF Paint Exterior Concrete Walls, 2 Coats Paint, Brush/Roller Work.....	1.17	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.11	
For Work >20', Add	0.25	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0019 SF Paint Exterior Concrete Walls, 1 Coat Filler, Sprayed.....	0.46	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0020 SF Paint Exterior Concrete Walls, 1 Coat Paint, Sprayed.....	0.42	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0021 SF Paint Exterior Concrete Walls, 2 Coats Paint, Sprayed.....	0.73	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
<b>09 91 13 00-0022 Paint Exterior Concrete Block Walls (09 91 13 00-0001)</b>		
<b>09 91 13 00-0023 Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0022)</b>		
09 91 13 00-0024 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush Work.....	1.04	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0025 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush.....	1.21	
For Work >20', Add	0.26	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0026 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush Work.....	2.10	
For Work >20', Add	0.43	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 13 00-0027 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush/Roller Work .....	0.84	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0028 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush/Roller Work .....	0.94	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0029 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush/Roller Work .....	1.65	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0030 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Sprayed .....	0.59	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0031 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Sprayed.....	0.66	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0032 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Sprayed.....	1.27	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
<b>09 91 13 00-0033 Paint Exterior Concrete Block Walls, Acrylic Latex Paint</b> (09 91 13 00-0022)		
09 91 13 00-0034 SF Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush Work.....	0.98	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	



<b>Finishes</b>	<b>09</b>	<b>2</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0035 SF Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush Work .....	1.15	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.25	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0036 SF Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush Work .....	2.10	
For Oil Based Paint, Add	0.12	
For Work >20', Add	0.44	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 13 00-0037 SF Paint Exterior Concrete Block Walls, Texture Coat, Brush Work .....	1.28	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.27	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0038 SF Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush/Roller Work .....	0.77	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0039 SF Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush/Roller Work .....	0.97	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0040 SF Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush/Roller Work .....	1.65	
For Oil Based Paint, Add	0.10	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0041 SF Paint Exterior Concrete Block Walls, Texture Coat, Brush/Roller Work .....	1.08	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	

**09 Finishes**

**09 90 Painting And Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0042	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Sprayed.....	0.64	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0043	SF		Paint Exterior Concrete Block Walls, 1 Coat Paint, Sprayed.....	0.67	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0044	SF		Paint Exterior Concrete Block Walls, 2 Coats Paint, Sprayed.....	1.05	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0045	SF		Paint Exterior Concrete Block Walls, Texture Coat, Sprayed.....	0.86	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0046			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0047			Paint Exterior Galvanized Walls (09 91 13 00-0046)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0048	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Primer, Brush Work.....	0.97	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0049	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Paint, Brush Work.....	1.07	
			For Work >20', Add	0.22	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0050	SF		Paint Exterior Galvanized Wall Surfaces, 2 Coats Paint, Brush Work.....	1.95	
			For Work >20', Add	0.38	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.21	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0051 SF Paint Exterior Galvanized Walls, 1 Coat Primer, Brush/Roller Work.....	0.72	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0052 SF Paint Exterior Galvanized Walls, 1 Coat Paint, Brush/Roller Work .....	0.84	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0053 SF Paint Exterior Galvanized Walls, 2 Coats Paint, Brush/Roller Work .....	1.56	
For Work >20', Add	0.30	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0054 SF Paint Exterior Galvanized Walls, 1 Coat Primer, Sprayed.....	0.53	
For Work >20', Add	0.07	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.25	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0055 SF Paint Exterior Galvanized Walls, 1 Coat Paint, Sprayed.....	0.71	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0056 SF Paint Exterior Galvanized Walls, 2 Coats Paint, Sprayed .....	1.17	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
<b>09 91 13 00-0057 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0046)</b>		
Note: Alkyd enamel paint.		
09 91 13 00-0058 SF Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Primer, Brush Work.....	0.97	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0059 SF Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Paint, Brush Work .....	1.07	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0060	SF		Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 2 Coats Paint, Brush Work.....	1.94	
			For Work >20', Add	0.38	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.21	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0061	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Brush/Roller Work.....	0.79	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0062	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Brush/Roller Work .....	0.90	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0063	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Brush/Roller Work.....	1.67	
			For Work >20', Add	0.30	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0064	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Sprayed.....	0.60	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0065	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Sprayed.....	0.71	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0066	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Sprayed .....	1.17	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.23	
09 91 13 00-0067			Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0046)		
09 91 13 00-0068	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Primer, Per LF Of Stack.....	11.72	
			For Work >20', Add	2.63	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	8.08	
			For >100 To 250, Add	3.80	
			For >250 To 500, Add	1.64	
			For >2,500 To 5,000, Deduct	-0.59	
			For >5,000 To 10,000, Deduct	-1.17	
			For >10,000 To 20,000, Deduct	-1.76	
			For >20,000, Deduct	-2.34	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0069 LF Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Paint, Per LF Of Stack.....	13.03	
For Work >20', Add	2.93	
Note: Applied only to work area above 20'.		
For Up To 100, Add	8.97	
For >100 To 250, Add	4.23	
For >250 To 500, Add	1.82	
For >2,500 To 5,000, Deduct	-0.65	
For >5,000 To 10,000, Deduct	-1.30	
For >10,000 To 20,000, Deduct	-1.95	
For >20,000, Deduct	-2.61	
09 91 13 00-0070 LF Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 2 Coats Paint, Per LF Of Stack.....	24.36	
For Work >20', Add	5.50	
Note: Applied only to work area above 20'.		
For Up To 100, Add	16.85	
For >100 To 250, Add	7.93	
For >250 To 500, Add	3.42	
For >2,500 To 5,000, Deduct	-1.22	
For >5,000 To 10,000, Deduct	-2.44	
For >10,000 To 20,000, Deduct	-3.65	
For >20,000, Deduct	-4.87	
<b>09 91 13 00-0071 Paint Exterior Corrugated Metal Walls (09 91 13 00-0046)</b>		
09 91 13 00-0072 SF Paint Exterior Corrugated Metal Walls, 1 Coat Primer, Sprayed.....	0.66	
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0073 SF Paint Exterior Corrugated Metal Walls, 1 Coat Paint, Sprayed.....	0.89	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0074 SF Paint Exterior Corrugated Metal Walls, 2 Coats Paint, Sprayed.....	1.49	
For Work >20', Add	0.24	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
<b>09 91 13 00-0075 Paint Exterior Stucco Walls (09 91 13 00-0001)</b>		
09 91 13 00-0076 SF Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work.....	1.33	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.30	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0077 SF Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work.....	1.46	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.01	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

09 91 13 00-0078	SF	Paint Exterior Stucco Wall Surfaces, 2 Coats Paint, Brush Work.....	2.70
		For Oil Based Paint, Add	0.15
		For Work >20', Add	0.60
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.85
		For >100 To 250, Add	0.87
		For >250 To 500, Add	0.38
		For >2,500 To 5,000, Deduct	-0.14
		For >5,000 To 10,000, Deduct	-0.27
		For >10,000 To 20,000, Deduct	-0.41
		For >20,000, Deduct	-0.54
09 91 13 00-0079	SF	Paint Exterior Stucco Walls, 1 Coat Primer, Brush/Roller Work.....	1.00
		For Oil Based Paint, Add	0.06
		For Work >20', Add	0.22
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.67
		For >100 To 250, Add	0.32
		For >250 To 500, Add	0.14
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.10
		For >10,000 To 20,000, Deduct	-0.15
		For >20,000, Deduct	-0.20
09 91 13 00-0080	SF	Paint Exterior Stucco Walls, 1 Coat Paint, Brush/Roller Work.....	1.12
		For Oil Based Paint, Add	0.06
		For Work >20', Add	0.24
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.75
		For >100 To 250, Add	0.35
		For >250 To 500, Add	0.15
		For >2,500 To 5,000, Deduct	-0.06
		For >5,000 To 10,000, Deduct	-0.11
		For >10,000 To 20,000, Deduct	-0.17
		For >20,000, Deduct	-0.22
09 91 13 00-0081	SF	Paint Exterior Stucco Walls, 2 Coats Paint, Brush/Roller Work.....	2.05
		For Oil Based Paint, Add	0.12
		For Work >20', Add	0.44
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.36
		For >100 To 250, Add	0.64
		For >250 To 500, Add	0.28
		For >2,500 To 5,000, Deduct	-0.10
		For >5,000 To 10,000, Deduct	-0.21
		For >10,000 To 20,000, Deduct	-0.31
		For >20,000, Deduct	-0.41
09 91 13 00-0082	SF	Paint Exterior Stucco Walls, 1 Coat Primer, Sprayed.....	0.65
		For Oil Based Paint, Add	0.04
		For Work >20', Add	0.13
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.40
		For >100 To 250, Add	0.19
		For >250 To 500, Add	0.08
		For >2,500 To 5,000, Deduct	-0.03
		For >5,000 To 10,000, Deduct	-0.07
		For >10,000 To 20,000, Deduct	-0.10
		For >20,000, Deduct	-0.13
09 91 13 00-0083	SF	Paint Exterior Stucco Walls, 1 Coat Paint, Sprayed.....	0.78
		For Oil Based Paint, Add	0.05
		For Work >20', Add	0.15
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.47
		For >100 To 250, Add	0.23
		For >250 To 500, Add	0.10
		For >2,500 To 5,000, Deduct	-0.04
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 20,000, Deduct	-0.12
		For >20,000, Deduct	-0.16
09 91 13 00-0084	SF	Paint Exterior Stucco Walls, 2 Coats Paint, Sprayed.....	1.53
		For Oil Based Paint, Add	0.09
		For Work >20', Add	0.30
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.94
		For >100 To 250, Add	0.45
		For >250 To 500, Add	0.19
		For >2,500 To 5,000, Deduct	-0.08
		For >5,000 To 10,000, Deduct	-0.15
		For >10,000 To 20,000, Deduct	-0.23
		For >20,000, Deduct	-0.31

09 91 13 00-0085 Paint Exterior Wood Siding (09 91 13 00-0001)

09 91 13 00-0086 Paint Exterior Smooth Wood Siding (09 91 13 00-0085)

Note: Includes tongue and groove, beveled, drop or board and batten siding.



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0087 SF Paint Exterior Wood Smooth Siding, 1 Coat Primer, Brush Work.....	0.95	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0088 SF Paint Exterior Wood Smooth Siding, 1 Coat Paint, Brush Work.....	1.01	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0089 SF Paint Exterior Wood Smooth Siding, 2 Coats Paint, Brush Work.....	1.79	
For Oil Based Paint, Add	0.10	
For Work >20', Add	0.38	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.19	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0090 SF Paint Exterior Smooth Wood Siding, 1 Coat Primer, Brush/Roller Work.....	0.72	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0091 SF Paint Exterior Smooth Wood Siding, 1 Coat Paint, Brush/Roller Work.....	0.81	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0092 SF Paint Exterior Smooth Wood Siding, 2 Coats Paint, Brush/Roller Work.....	1.50	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.30	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0093 SF Paint Exterior Smooth Wood Siding, 1 Coat Primer, Sprayed.....	0.53	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.30	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	

**09 Finishes**  
**09 90 Painting And Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0094	SF		Paint Exterior Smooth Wood Siding, 1 Coat Paint, Sprayed.....	0.64	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work &gt;20', Add</i>	0.12	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.38	
			<i>For &gt;100 To 250, Add</i>	0.18	
			<i>For &gt;250 To 500, Add</i>	0.08	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.06	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.10	
			<i>For &gt;20,000, Deduct</i>	-0.13	
09 91 13 00-0095	SF		Paint Exterior Smooth Wood Siding, 2 Coats Paint, Sprayed.....	1.02	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;20', Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	
<b>09 91 13 00-0096</b>			<b>Paint Exterior Rough Wood Siding (09 91 13 00-0085)</b>		
			<i>Note: Includes shingles, shakes or rough sawn siding.</i>		
09 91 13 00-0097	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Primer, Brush Work.....	1.48	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;20', Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.01	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.22	
			<i>For &gt;20,000, Deduct</i>	-0.30	
09 91 13 00-0098	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Paint, Brush Work.....	1.51	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;20', Add</i>	0.35	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.05	
			<i>For &gt;100 To 250, Add</i>	0.50	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.30	
09 91 13 00-0099	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 2 Coats Paint, Brush Work.....	2.78	
			<i>For Oil Based Paint, Add</i>	0.15	
			<i>For Work &gt;20', Add</i>	0.63	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.93	
			<i>For &gt;100 To 250, Add</i>	0.91	
			<i>For &gt;250 To 500, Add</i>	0.39	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.14	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.28	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.42	
			<i>For &gt;20,000, Deduct</i>	-0.56	
09 91 13 00-0100	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Brush/Roller Work.....	1.26	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;20', Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.78	
			<i>For &gt;100 To 250, Add</i>	0.37	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.25	
09 91 13 00-0101	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Brush/Roller Work.....	1.37	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;20', Add</i>	0.27	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.86	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.27	





<b>Finishes</b>	<b>09</b>	<b>2</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0102 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Brush/Roller Work.....	2.52	
For Oil Based Paint, Add	0.15	
For Work >20', Add	0.49	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.55	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.50	
09 91 13 00-0103 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Sprayed.....	0.83	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
09 91 13 00-0104 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Sprayed.....	0.94	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0105 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Sprayed.....	1.76	
For Oil Based Paint, Add	0.11	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.04	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
<b>09 91 13 00-0106 Paint Exterior Vinyl Siding (09 91 13 00-0001)</b> .....	<b>0.81</b>	
09 91 13 00-0107 SF Paint Exterior Vinyl Siding, 1 Coat Primer, Brush Work.....	0.81	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0108 SF Paint Exterior Vinyl Siding, 1 Coat Paint, Brush Work.....	0.90	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0109 SF Paint Exterior Vinyl Siding, 2 Coats Paint, Brush Work.....	1.63	
For Oil Based Paint, Add	0.10	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.33	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0110	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Brush/Roller Work.....	0.72	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0111	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Brush/Roller Work .....	0.72	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0112	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Brush/Roller Work .....	1.33	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.25	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.79	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0113	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Sprayed.....	0.58	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0114	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Sprayed.....	0.64	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0115	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Sprayed .....	1.24	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0116			Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0117			Paint Exterior Concrete Ceilings (09 91 13 00-0116)		
09 91 13 00-0118	SF		Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush Work .....	0.87	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.08	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0119 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush Work.....	0.96	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0120 SF Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush Work.....	1.70	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.14	
For Work >20', Add	0.38	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 13 00-0121 SF Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush/Roller Work.....	0.66	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0122 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.75	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0123 SF Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.37	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.12	
For Work >20', Add	0.30	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0124 SF Paint Exterior Concrete Ceiling, 1 Coat Filler, Sprayed.....	0.49	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.10	
09 91 13 00-0125 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Sprayed.....	0.58	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	

**09 Finishes**  
**09 90 Painting And Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0126	SF		Paint Exterior Concrete Ceiling, 2 Coats Paint, Sprayed .....	0.92	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Epoxy Paint, Add</i>	0.11	
			<i>For Work &gt;20', Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.56	
			<i>For &gt;100 To 250, Add</i>	0.27	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0127			Paint Exterior Wood Ceilings <small>(09 91 13 00-0116)</small>		
09 91 13 00-0128			Paint Exterior Smooth Wood Ceilings <small>(09 91 13 00-0127)</small>		
09 91 13 00-0129	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Primer, Brush Work .....	1.06	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;20', Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.71	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 13 00-0130	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Paint, Brush Work.....	1.11	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;20', Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.22	
09 91 13 00-0131	SF		Paint Exterior Wood Smooth Ceiling, 2 Coats Paint, Brush Work.....	2.01	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work &gt;20', Add</i>	0.44	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.35	
			<i>For &gt;100 To 250, Add</i>	0.64	
			<i>For &gt;250 To 500, Add</i>	0.28	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 13 00-0132	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work .....	0.83	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;20', Add</i>	0.17	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.52	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.17	
09 91 13 00-0133	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work .....	0.92	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;20', Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.60	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0134	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.61	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work &gt;20', Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.03	
			<i>For &gt;100 To 250, Add</i>	0.49	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.32	



<b>Finishes</b>	<b>09</b>	<b>2</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0135 SF Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Sprayed.....	0.60	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0136 SF Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Sprayed.....	0.60	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0137 SF Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Sprayed.....	1.08	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
<b>09 91 13 00-0138 Paint Exterior Rough Wood Ceilings (09 91 13 00-0127)</b>		
09 91 13 00-0139 SF Paint Exterior Wood Rough Ceiling, 1 Coat Primer, Brush Work.....	1.59	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.34	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0140 SF Paint Exterior Wood Rough Ceiling, 1 Coat Paint, Brush Work.....	1.67	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.39	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0141 SF Paint Exterior Wood Rough Ceiling, 2 Coats Paint, Brush Work.....	2.88	
For Oil Based Paint, Add	0.16	
For Work >20', Add	0.66	
Note: Applied only to work area above 20'.		
For Up To 100, Add	2.00	
For >100 To 250, Add	0.94	
For >250 To 500, Add	0.41	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.58	
09 91 13 00-0142 SF Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Brush/Roller Work.....	1.37	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.27	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

09 91 13 00-0143	SF	Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Brush/Roller Work .....	1.48
		For Oil Based Paint, Add	0.09
		For Work >20', Add	0.30
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.94
		For >100 To 250, Add	0.45
		For >250 To 500, Add	0.19
		For >2,500 To 5,000, Deduct	-0.07
		For >5,000 To 10,000, Deduct	-0.15
		For >10,000 To 20,000, Deduct	-0.22
		For >20,000, Deduct	-0.30
09 91 13 00-0144	SF	Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Brush/Roller Work .....	2.62
		For Oil Based Paint, Add	0.16
		For Work >20', Add	0.52
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.63
		For >100 To 250, Add	0.78
		For >250 To 500, Add	0.34
		For >2,500 To 5,000, Deduct	-0.13
		For >5,000 To 10,000, Deduct	-0.26
		For >10,000 To 20,000, Deduct	-0.39
		For >20,000, Deduct	-0.52
09 91 13 00-0145	SF	Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Sprayed .....	0.94
		For Oil Based Paint, Add	0.06
		For Work >20', Add	0.18
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.56
		For >100 To 250, Add	0.27
		For >250 To 500, Add	0.12
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.09
		For >10,000 To 20,000, Deduct	-0.14
		For >20,000, Deduct	-0.19
09 91 13 00-0146	SF	Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Sprayed .....	1.05
		For Oil Based Paint, Add	0.06
		For Work >20', Add	0.20
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.64
		For >100 To 250, Add	0.31
		For >250 To 500, Add	0.13
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.11
		For >10,000 To 20,000, Deduct	-0.16
		For >20,000, Deduct	-0.21
09 91 13 00-0147	SF	Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Sprayed .....	1.89
		For Oil Based Paint, Add	0.12
		For Work >20', Add	0.36
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.14
		For >100 To 250, Add	0.54
		For >250 To 500, Add	0.24
		For >2,500 To 5,000, Deduct	-0.09
		For >5,000 To 10,000, Deduct	-0.19
		For >10,000 To 20,000, Deduct	-0.28
		For >20,000, Deduct	-0.38

09 91 13 00-0148 Paint Exterior Metal Ceilings (09 91 13 00-0116)

09 91 13 00-0149 Paint Exterior Galvanized Ceilings (09 91 13 00-0148)

Note: Linseed oil or acrylic latex paint.

09 91 13 00-0150	SF	Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush Work .....	1.07
		For Work >20', Add	0.22
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.68
		For >100 To 250, Add	0.32
		For >250 To 500, Add	0.14
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.11
		For >10,000 To 20,000, Deduct	-0.16
		For >20,000, Deduct	-0.21
09 91 13 00-0151	SF	Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush Work .....	1.18
		For Work >20', Add	0.25
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.77
		For >100 To 250, Add	0.36
		For >250 To 500, Add	0.16
		For >2,500 To 5,000, Deduct	-0.06
		For >5,000 To 10,000, Deduct	-0.12
		For >10,000 To 20,000, Deduct	-0.18
		For >20,000, Deduct	-0.24





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0152 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush Work.....	2.16	
For Work >20', Add	0.44	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.43	
09 91 13 00-0153 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.83	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
09 91 13 00-0154 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.94	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0155 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.65	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0156 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Sprayed.....	0.71	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0157 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Sprayed.....	0.82	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0158 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Sprayed.....	1.29	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
<b>09 91 13 00-0159 Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0148)</b>		
Note: Alkyd enamel paint.		
09 91 13 00-0160 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work.....	1.07	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0161	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work.....	1.18	
			For Work >20', Add	0.25	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0162	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work.....	2.16	
			For Work >20', Add	0.44	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	
09 91 13 00-0163	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.90	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0164	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work.....	1.01	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0165	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.78	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0166	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed.....	0.71	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0167	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed.....	0.71	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0168	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed.....	1.29	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	

09 91 13 00-0169 Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0148)



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170 SF Paint Exterior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed.....	0.77	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0171 SF Paint Exterior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed.....	0.89	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0172 SF Paint Exterior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed.....	1.63	
For Work >20', Add	0.27	
Note: Applied only to work area above 20'		
For Up To 100, Add	0.89	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.33	
<b>09 91 13 00-0173 Paint Exterior Floors (09 91 13)</b>		
<b>09 91 13 00-0174 Paint Exterior Concrete Floors (09 91 13 00-0173)</b>		
09 91 13 00-0175 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush Work.....	0.66	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0176 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush Work.....	0.75	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0177 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush Work.....	1.37	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0178 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.53	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0179 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.64	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0180 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush/Roller Work .....	1.02	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0181 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Sprayed.....	0.36	
For Oil Based Paint, Add	0.02	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.19	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 91 13 00-0182 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Sprayed.....	0.47	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0183 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Sprayed .....	0.81	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0184 SF Paint Exterior Concrete Floors And Decks, 1 Coat Non Slip Paint, Brush/Roller Work.....	1.47	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0185 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work.....	3.23	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.32	
For >10,000 To 20,000, Deduct	-0.48	
For >20,000, Deduct	-0.65	
09 91 13 00-0186 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work.....	3.96	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.20	
For >5,000 To 10,000, Deduct	-0.40	
For >10,000 To 20,000, Deduct	-0.59	
For >20,000, Deduct	-0.79	
<b>09 91 13 00-0187 Paint Exterior Wood Floors (09 91 13 00-0173)</b>		
09 91 13 00-0188 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush Work .....	0.81	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0189 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush Work.....	0.90	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	



<b>Finishes</b>	<b>09</b>	<b>2</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush Work.....	1.67	
For Oil Based Paint, Add	0.10	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0191 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.72	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0192 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.81	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0193 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work.....	1.28	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0194 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Sprayed.....	0.49	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.10	
09 91 13 00-0195 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Sprayed.....	0.60	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0196 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Sprayed.....	0.96	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0197 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work.....	1.58	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0198 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work.....	4.07	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.20	
For >5,000 To 10,000, Deduct	-0.41	
For >10,000 To 20,000, Deduct	-0.61	
For >20,000, Deduct	-0.81	
09 91 13 00-0199 Paint Site Work <small>(09 91 13)</small>		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0200 Paint Structural Steel <small>(09 91 13 00-0199)</small>		
09 91 13 00-0201 Paint Structural Steel, Brush Work <small>(09 91 13 00-0200)</small>		

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0202 SF Paint Structural Steel, 1 Field Coat Primer, Brush/Roller Work.....	0.93	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.09	
09 91 13 00-0203 SF Paint Structural Steel, 1 Field Coat Paint, Brush/Roller Work.....	0.82	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.08	
<b>09 91 13 00-0204 Paint Structural Steel, Spray Work (09 91 13 00-0200)</b>		
09 91 13 00-0205 SF Paint Structural Steel, 1 Field Coat Primer, Spray Work.....	0.62	
For Electrostatic Painting, Add	0.08	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.07	
09 91 13 00-0206 SF Paint Structural Steel, 1 Field Coat Paint, Spray Work.....	0.51	
For Electrostatic Painting, Add	0.07	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For Epoxy Paint, Add	0.07	
<b>09 91 13 00-0207 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0200)</b>		
09 91 13 00-0208 SF Paint Exposed Metal Decking, 1 Coat Primer, Sprayed.....	0.71	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.08	
09 91 13 00-0209 SF Paint Exposed Metal Decking, 1 Coat Paint, Sprayed.....	0.71	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.08	
09 91 13 00-0210 SF Paint Exposed Metal Decking, 2 Coats Paint, Sprayed.....	1.16	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.14	
09 91 13 00-0211 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Brush/Roller Work.....	1.10	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.13	
09 91 13 00-0212 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Brush/Roller Work.....	1.08	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.12	
09 91 13 00-0213 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Brush/Roller Work.....	2.03	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For Epoxy Paint, Add	0.24	
09 91 13 00-0214 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Sprayed.....	0.85	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0215 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Sprayed.....	0.85	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0216 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Sprayed.....	1.43	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For Epoxy Paint, Add	0.19	
<b>09 91 13 00-0217 Paint Steel Pipes (09 91 13 00-0199)</b>		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0218 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Primer.....	1.56	
For Electrostatic Painting, Add	0.19	
For Epoxy Paint, Add	0.14	
09 91 13 00-0219 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Primer.....	1.76	
For Electrostatic Painting, Add	0.21	
For Epoxy Paint, Add	0.16	





<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0220 LF Paint Steel Pipes 4" Diameter, 1 Coat Primer.....	1.98	
<i>For Electrostatic Painting, Add</i>	0.24	
<i>For Epoxy Paint, Add</i>	0.18	
09 91 13 00-0221 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Primer.....	2.47	
<i>For Electrostatic Painting, Add</i>	0.30	
<i>For Epoxy Paint, Add</i>	0.22	
09 91 13 00-0222 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Primer.....	3.14	
<i>For Electrostatic Painting, Add</i>	0.38	
<i>For Epoxy Paint, Add</i>	0.28	
09 91 13 00-0223 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Paint .....	1.56	
<i>For Electrostatic Painting, Add</i>	0.19	
<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0224 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Paint .....	1.76	
<i>For Electrostatic Painting, Add</i>	0.21	
<i>For Epoxy Paint, Add</i>	0.16	
09 91 13 00-0225 LF Paint Steel Pipes 4" Diameter, 1 Coat Paint .....	1.98	
<i>For Electrostatic Painting, Add</i>	0.24	
<i>For Epoxy Paint, Add</i>	0.18	
09 91 13 00-0226 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Paint.....	2.47	
<i>For Electrostatic Painting, Add</i>	0.30	
<i>For Epoxy Paint, Add</i>	0.22	
09 91 13 00-0227 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Paint.....	3.14	
<i>For Electrostatic Painting, Add</i>	0.38	
<i>For Epoxy Paint, Add</i>	0.28	
09 91 13 00-0228 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 2 Coats.....	3.13	
<i>For Electrostatic Painting, Add</i>	0.39	
<i>For Epoxy Paint, Add</i>	0.32	
09 91 13 00-0229 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 2 Coats.....	3.50	
<i>For Electrostatic Painting, Add</i>	0.42	
<i>For Epoxy Paint, Add</i>	0.32	
09 91 13 00-0230 LF Paint Steel Pipes 4" Diameter, 2 Coats.....	3.78	
<i>For Electrostatic Painting, Add</i>	0.46	
<i>For Epoxy Paint, Add</i>	0.35	
09 91 13 00-0231 LF Paint Steel Pipes 6" To 8" Diameter, 2 Coats .....	4.78	
<i>For Electrostatic Painting, Add</i>	0.58	
<i>For Epoxy Paint, Add</i>	0.43	
09 91 13 00-0232 LF Paint Steel Pipes 10" To 12" Diameter, 2 Coats .....	5.88	
<i>For Electrostatic Painting, Add</i>	0.71	
<i>For Epoxy Paint, Add</i>	0.54	
09 91 13 00-0233 EA Paint Exposed Single Or Double Gang, Outlet Box, 1 Coat Paint.....	8.07	
<i>For Electrostatic Painting, Add</i>	0.84	
<i>For Epoxy Paint, Add</i>	0.47	
<b>09 91 13 00-0234 Paint Fencing <small>(09 91 13 00-0199)</small></b>		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0235 SF Paint Existing Chain Link Fence, 1 Coat Paint, Brush/Roller .....	0.78	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.51	
<i>For &gt;100 To 250, Add</i>	0.24	
<i>For &gt;250 To 500, Add</i>	0.11	
09 91 13 00-0236 SF Paint Existing Chain Link Fence, 2 Coats Paint, Brush/Roller .....	1.45	
<i>For Epoxy Paint, Add</i>	0.14	
<i>For Up To 100, Add</i>	0.94	
<i>For &gt;100 To 250, Add</i>	0.45	
<i>For &gt;250 To 500, Add</i>	0.19	
09 91 13 00-0237 SF Paint Existing Chain Link Fence, 1 Coat Paint, Sprayed.....	0.62	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Electrostatic Painting, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.38	
<i>For &gt;100 To 250, Add</i>	0.18	
<i>For &gt;250 To 500, Add</i>	0.08	
09 91 13 00-0238 SF Paint Existing Chain Link Fence, 2 Coats Paint, Sprayed.....	1.16	
<i>For Epoxy Paint, Add</i>	0.15	
<i>For Electrostatic Painting, Add</i>	0.16	
<i>For Up To 100, Add</i>	0.69	
<i>For &gt;100 To 250, Add</i>	0.33	
<i>For &gt;250 To 500, Add</i>	0.14	
09 91 13 00-0239 SF Paint Wrought Iron Fence, 1 Coat Primer, Brush/Roller.....	0.70	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.44	
<i>For &gt;100 To 250, Add</i>	0.21	
<i>For &gt;250 To 500, Add</i>	0.09	
09 91 13 00-0240 SF Paint Wrought Iron Fence, 1 Coat, Brush/Roller .....	0.67	
<i>For Epoxy Paint, Add</i>	0.07	
<i>For Up To 100, Add</i>	0.43	
<i>For &gt;100 To 250, Add</i>	0.20	
<i>For &gt;250 To 500, Add</i>	0.09	
09 91 13 00-0241 SF Paint Wrought Iron Fence, Each Additional Coat, Brush/Roller .....	0.46	
<i>For Epoxy Paint, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.27	
<i>For &gt;100 To 250, Add</i>	0.13	
<i>For &gt;250 To 500, Add</i>	0.06	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0242 SF Paint Picket Fence, 1 Coat Primer, Brush/Roller.....	0.93	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 91 13 00-0243 SF Paint Picket Fence, 1 Coat, Brush/Roller.....	0.93	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 91 13 00-0244 SF Paint Picket Fence, Each Additional Coat, Brush/Roller.....	0.65	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0245 SF Paint Wood Fences 1 Coat, Brush/Roller.....	0.66	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
09 91 13 00-0246 SF Paint Wood Fences 2 Coats, Brush/Roller.....	1.17	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 91 13 00-0247 SF Paint Wood Fences 1 Coat, Sprayed.....	0.47	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
09 91 13 00-0248 SF Paint Wood Fences 2 Coats, Sprayed.....	0.86	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
<b>09 91 13 00-0249 Paint Metal Louvers (09 91 13 00-0199)</b>		
09 91 13 00-0250 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Primer, Brush/Roller Work.....	1.32	
For Electrostatic Painting, Add	0.15	
09 91 13 00-0251 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Alkyd, Brush/Roller Work.....	1.34	
For Electrostatic Painting, Add	0.16	
09 91 13 00-0252 SF Paint Ventilation Louver, SF Of Opening Area, 2 Coats Alkyd, Brush/Roller Work.....	2.72	
For Electrostatic Painting, Add	0.32	
<b>09 91 13 00-0253 Paint Ladders (09 91 13 00-0199)</b>		
09 91 13 00-0254 LF Paint Ladders, 1 Coat Alkyd Primer, Brush/Roller Work.....	3.70	
For Epoxy Paint, Add	0.22	
09 91 13 00-0255 LF Paint Ladders, 1 Coat Alkyd Enamel, Brush/Roller Work.....	4.13	
For Epoxy Paint, Add	0.24	
09 91 13 00-0256 LF Paint Ladders, 2 Coats Alkyd Enamel, Brush/Roller Work.....	8.18	
For Epoxy Paint, Add	0.45	
<b>09 91 13 00-0257 Paint Handrails (09 91 13 00-0199)</b>		
09 91 13 00-0258 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.45	
For Epoxy Paint, Add	0.10	
09 91 13 00-0259 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.61	
For Epoxy Paint, Add	0.11	
09 91 13 00-0260 LF Paint Hand Rail And Bracket, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	2.67	
For Epoxy Paint, Add	0.16	
09 91 13 00-0261 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	2.53	
For Epoxy Paint, Add	0.27	
09 91 13 00-0262 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	2.78	
For Epoxy Paint, Add	0.28	
09 91 13 00-0263 LF Paint Pipe Rail And Pickets, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	4.81	
For Epoxy Paint, Add	0.46	
09 91 13 00-0264 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Primer, Brush/Roller Work.....	2.74	
For Epoxy Paint, Add	0.28	
09 91 13 00-0265 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Enamel, Brush/Roller Work.....	3.01	
For Epoxy Paint, Add	0.29	
09 91 13 00-0266 LF Paint Pipe Rail And Pickets, 2 Rails, 2 Coats Alkyd Enamel, Brush/Roller Work.....	5.12	
For Epoxy Paint, Add	0.47	
09 91 13 00-0267 LF Paint Balustrades, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.54	
For Epoxy Paint, Add	0.15	
09 91 13 00-0268 LF Paint Balustrades, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.70	
For Epoxy Paint, Add	0.16	
09 91 13 00-0269 LF Paint Balustrades, 2 Coats Alkyd Enamel, Brush/Roller Work.....	3.07	
For Epoxy Paint, Add	0.29	
<b>09 91 13 00-0270 Paint Grating (09 91 13 00-0199)</b>		
09 91 13 00-0271 SF Paint Gratings And Frames, 1 Coat Primer, Brush/Roller Work.....	2.67	
For Epoxy Paint, Add	0.16	
09 91 13 00-0272 SF Paint Gratings And Frames, 1 Coat Paint, Brush/Roller Work.....	2.71	
For Epoxy Paint, Add	0.18	



		<b>Finishes</b>	<b>09</b>
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0273 SF Paint Gratings And Frames, 2 Coats Paint, Brush/Roller Work <i>For Epoxy Paint, Add</i>	4.05	0.28
<b>09 91 13 00-0274 Other Site Work Painting (09 91 13 00-0199)</b>		
<b>09 91 13 00-0275 Paint Flagpoles (09 91 13 00-0274)</b>		
09 91 13 00-0276 EA Paint Steel Flagpole, 20' High, 1 Coat Paint	172.99	
09 91 13 00-0277 EA Paint Steel Flagpole, 30' High, 1 Coat Paint	232.70	
09 91 13 00-0278 EA Paint Steel Flagpole, 40' High, 1 Coat Paint	292.45	
09 91 13 00-0279 EA Paint Steel Flagpole, 50' High, 1 Coat Paint	352.20	
09 91 13 00-0280 EA Paint Steel Flagpole, 70' High, 1 Coat Paint	459.89	
09 91 13 00-0281 EA Paint Steel Flagpole, 80' High, 1 Coat Paint	518.17	
09 91 13 00-0282 EA Paint Steel Flagpole, 90' High, 1 Coat Paint	576.45	
<b>09 91 13 00-0283 Paint Lattice Or Trellis (09 91 13 00-0274)</b>		
09 91 13 00-0284 SF Paint Wood Lattice Or Trellis 1 Coat, Spray Per Side <i>For Up To 100, Add</i>	1.24	0.86
<i>For &gt;100 To 250, Add</i>		0.41
<i>For &gt;250 To 500, Add</i>		0.18
09 91 13 00-0285 SF Paint Wood Lattice Or Trellis 2 Coats, Spray Per Side <i>For Up To 100, Add</i>	2.28	1.58
<i>For &gt;100 To 250, Add</i>		0.74
<i>For &gt;250 To 500, Add</i>		0.32
<b>09 91 13 00-0286 Equipment And Tanks (09 91 13 00-0199)</b>		
<b>09 91 13 00-0287 Valves, Primer And Finish Coats (09 91 13 00-0286)</b>		
09 91 13 00-0288 EA Prime And Paint 4" And Smaller Valve	26.60	
09 91 13 00-0289 EA Prime And Paint 6" To 10" Valve	32.45	
09 91 13 00-0290 EA Prime And Paint 12" To 18" Valve	42.83	
09 91 13 00-0291 EA Prime And Paint 20" To 24" Valve	57.74	
09 91 13 00-0292 EA Prime And Paint >24" To 36" Valve	78.49	
09 91 13 00-0293 EA Prime And Paint >36" To 48" Valve	106.40	
<b>09 91 13 00-0294 Pumps And Motors. Primer And Finish Coats (09 91 13 00-0286)</b>		
09 91 13 00-0295 EA Prime And Paint Pump Under 1 HP	81.12	
09 91 13 00-0296 EA Prime And Paint Pump, 1 HP To 5 HP	105.82	
09 91 13 00-0297 EA Prime And Paint Pump, >5 HP To 10 HP	126.00	
09 91 13 00-0298 EA Prime And Paint Pump, >10 HP To 20 HP	140.33	
09 91 13 00-0299 EA Prime And Paint Pump, >20 HP To 30 HP	163.71	
09 91 13 00-0300 EA Prime And Paint Pump, >30 HP To 50 HP	187.11	
09 91 13 00-0301 EA Prime And Paint Pump, >50 HP To 75 HP	205.97	
09 91 13 00-0302 EA Prime And Paint Pump, >75 HP	233.89	
<b>09 91 13 00-0303 Storage Tanks (09 91 13 00-0286)</b>		
09 91 13 00-0304 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Roller	0.99	
09 91 13 00-0305 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Roller	1.27	
09 91 13 00-0306 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Roller	2.42	
09 91 13 00-0307 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Roller	1.37	
09 91 13 00-0308 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Roller	1.71	
09 91 13 00-0309 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Roller	3.26	
09 91 13 00-0310 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Spray	0.94	
09 91 13 00-0311 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Spray	1.11	
09 91 13 00-0312 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Spray	2.15	
09 91 13 00-0313 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Spray	1.10	
09 91 13 00-0314 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Spray	1.41	
09 91 13 00-0315 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Spray	2.72	
<b>09 91 13 00-0316 Paint Exterior Stairs (09 91 13)</b>		
<b>09 91 13 00-0317 Paint Exterior Concrete Stairs (09 91 13 00-0316)</b>		
09 91 13 00-0318 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work	16.00	
09 91 13 00-0319 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work	16.00	
09 91 13 00-0320 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	19.47	
09 91 13 00-0321 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	29.47	
09 91 13 00-0322 RSR Paint Exterior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	32.01	
<b>09 91 13 00-0323 Paint Exterior Metal Stairs (09 91 13 00-0316)</b>		
09 91 13 00-0324 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work <i>For Oil Based Paint, Add</i>	8.32	0.44
09 91 13 00-0325 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	8.32	0.44
09 91 13 00-0326 RSR Paint Exterior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	16.65	0.88



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>09 91 13 00-0327</b>	<b>Paint Exterior Wood Stairs</b> <small>(09 91 13 00-0316)</small>	
09 91 13 00-0328	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	8.18
09 91 13 00-0329	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work .....	8.18
09 91 13 00-0330	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work .....	11.65
09 91 13 00-0331	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work .....	21.65
09 91 13 00-0332	RSR Paint Exterior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work .....	16.37

<b>09 91 13 00-0333</b>	<b>Paint Exterior Stair Nosing</b> <small>(09 91 13 00-0316)</small>	
09 91 13 00-0334	LF Paint Exterior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work .....	1.54

**09 91 13 00-0335** **Paint Exterior Trim** (09 91 13)

<b>09 91 13 00-0336</b>	<b>Paint Exterior Metal Trim And Gutters</b> <small>(09 91 13 00-0335)</small>	
09 91 13 00-0337	SF Paint Exterior Exposed Metal Trim, 1 Coat Primer, Brush Work .....	1.14
09 91 13 00-0338	SF Paint Exterior Exposed Metal Trim, 1 Coat Paint, Brush Work .....	1.14
09 91 13 00-0339	SF Paint Exterior Exposed Metal Trim, 2 Coats Paint, Brush Work .....	2.08
09 91 13 00-0340	SF Paint Exterior Metal Trim, 1 Coat Primer, Brush/Roller Work .....	0.92
09 91 13 00-0341	SF Paint Exterior Metal Trim, 1 Coat Paint, Brush/Roller Work .....	1.03
09 91 13 00-0342	SF Paint Exterior Metal Trim, 2 Coats Paint, Brush/Roller Work .....	1.85
09 91 13 00-0343	LF Paint Exterior Gutter And Downspout, 1 Coat Paint, Brush Work .....	1.67
09 91 13 00-0344	LF Paint Exterior Gutter And Downspout, 2 Coats Paint, Brush Work .....	2.21

**09 91 13 00-0345** **Paint Exterior Wood Trim** (09 91 13 00-0335)

09 91 13 00-0346	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush Work .....	1.48
	<i>For Oil Based Paint, Add</i>	0.08
09 91 13 00-0347	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush Work .....	1.62
	<i>For Oil Based Paint, Add</i>	0.09
09 91 13 00-0348	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush Work .....	2.91
	<i>For Oil Based Paint, Add</i>	0.17
09 91 13 00-0349	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush/Roller Work .....	1.16
	<i>For Oil Based Paint, Add</i>	0.07
09 91 13 00-0350	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush/Roller Work .....	1.30
	<i>For Oil Based Paint, Add</i>	0.08
09 91 13 00-0351	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush/Roller Work .....	2.39
	<i>For Oil Based Paint, Add</i>	0.14

**09 91 13 00-0352** **Paint Exterior Miscellaneous Metal Surfaces** (09 91 13)

09 91 13 00-0353	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Primer, Brush/Roller Work .....	1.23
	<i>For Epoxy Paint, Add</i>	0.12
	<i>For Electrostatic Painting, Add</i>	0.15
09 91 13 00-0354	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work .....	1.16
	<i>For Epoxy Paint, Add</i>	0.10
	<i>For Electrostatic Painting, Add</i>	0.14
09 91 13 00-0355	SF Paint Exterior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work .....	2.36
	<i>For Epoxy Paint, Add</i>	0.21
	<i>For Electrostatic Painting, Add</i>	0.28

**09 91 33** **Painting Materials** (09 91)

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

<b>09 91 33 00-0001</b>	<b>Primer</b> <small>(09 91 33)</small>	
09 91 33 00-0002	GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon .....	34.69
09 91 33 00-0003	GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon .....	24.75
09 91 33 00-0004	GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon .....	31.38
09 91 33 00-0005	GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon .....	79.38
09 91 33 00-0006	EA Cement Base Primer, 25 LB Sack .....	25.88
09 91 33 00-0007	GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon .....	39.90
09 91 33 00-0008	GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon .....	32.03
09 91 33 00-0009	GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF Per Gallon .....	24.75
09 91 33 00-0010	GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon .....	22.48
09 91 33 00-0011	GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon .....	39.63
09 91 33 00-0012	GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon .....	33.00
09 91 33 00-0013	GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon .....	33.00
09 91 33 00-0014	GAL Latex Wood Primer, Exterior, 300 SF Per Gallon .....	37.20
09 91 33 00-0015	GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon .....	24.26
09 91 33 00-0016	GAL Red Alkyd Primer, 500 SF Per Gallon .....	59.37
09 91 33 00-0017	GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon .....	25.88
09 91 33 00-0018	GAL Zinc Chromate Primer, 300 SF Per Gallon .....	20.70
09 91 33 00-0019	GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon .....	53.54
09 91 33 00-0020	GAL Stain Killer, Alcohol Base .....	33.39
09 91 33 00-0021	GAL Sealer, Primer Kilz, 400 SF Per Gallon .....	37.67

**09 91 33 00-0022** **Paint** (09 91 33)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	33	00-0023	GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon .....	18.12	
	09 91	33	00-0024	GAL Acrylic Urethane Sealer .....	89.83	
	09 91	33	00-0025	GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type..... Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.	9.71	
	09 91	33	00-0026	GAL Concrete Enamel Epoxy, 350 SF Per Gallon .....	56.13	
	09 91	33	00-0027	GAL Concrete Acrylic Sealer, 400 SF Per Gallon .....	29.44	
	09 91	33	00-0028	GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon .....	9.71	
	09 91	33	00-0029	GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon .....	14.72	
	09 91	33	00-0030	GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon .....	29.76	
	09 91	33	00-0031	GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon.....	39.63	
	09 91	33	00-0032	GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon .....	32.35	
	09 91	33	00-0033	GAL Exterior, Flat, Oil Base.....	29.66	
	09 91	33	00-0034	GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	28.15	
	09 91	33	00-0035	GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon .....	33.16	
	09 91	33	00-0036	GAL Exterior, Latex Flat Paint, 300 SF Per Gallon .....	29.44	
	09 91	33	00-0037	GAL Exterior, Water Base, Latex Gloss Enamel .....	41.91	
	09 91	33	00-0038	GAL Cold Galvanizing Paint.....	202.45	
	09 91	33	00-0039	GAL High Heat Paint.....	84.05	
	09 91	33	00-0040	GAL Heat Resistant Paint .....	56.03	
	09 91	33	00-0041	GAL Zinc Chromate Paint .....	50.69	
	09 91	33	00-0042	QT Anti-Rust Enamel, 500 SF Per Quart .....	20.01	
	09 91	33	00-0043	GAL Rust Inhibitor, Ferrous Metal.....	56.03	
	09 91	33	00-0044	GAL Masonry Waterproofing, 100 SF Per Gallon .....	29.44	
	09 91	33	00-0045	GAL Alkyd Latex, Black.....	37.80	
	09 91	33	00-0046	GAL Alkyd Latex, White.....	37.80	
	09 91	33	00-0047	GAL Alkyd Latex, Colors .....	45.58	
	09 91	33	00-0048	QT Wrought Iron Paint, Black .....	51.14	
	09 91	33	00-0049	GAL Vinyl Paint.....	49.50	
	09 91	33	00-0050	GAL Silicone Alkyd.....	60.17	
	09 91	33	00-0051	GAL 2 Component Solvent Based Acrylic Epoxy.....	61.14	
	09 91	33	00-0052	GAL 2 Component Solvent Based Polyester Epoxy.....	76.67	
	09 91	33	00-0053	GAL Chlorinated Rubber.....	56.29	
	09 91	33	00-0054	GAL Polyamide Epoxy Sealer.....	58.23	
	09 91	33	00-0055	GAL Coal Tar Epoxy.....	41.73	
	09 91	33	00-0056	GAL Swimming Pool Enamel, 350 SF Per Gallon .....	52.09	
	09 91	33	00-0057	GAL Swimming Pool Epoxy Or Urethane Base.....	67.94	
	09 91	33	00-0058	GAL Swimming Pool Rubber Base .....	46.59	
	09 91	33	00-0059	GAL Interior, Latex Flat Paint, 300 SF Per Gallon.....	29.60	
	09 91	33	00-0060	GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon .....	33.16	
	09 91	33	00-0061	GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon .....	60.66	
	09 91	33	00-0062	GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon.....	20.54	
	09 91	33	00-0063	GAL Linseed Oil.....	17.95	
	09 91	33	00-0064	GAL Latex Floor Paint, 300 SF Per Gallon .....	29.44	
	09 91	33	00-0065	GAL Acrylic Floor Paint, 400 SF Per Gallon.....	33.16	
	09 91	33	00-0066	GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon .....	30.33	
	09 91	33	00-0067	GAL Acoustic Spray-On Texture, Finish .....	24.37	
	09 91	33	00-0068	<b>Stain, Varnish</b> (09 91 33)		
	09 91	33	00-0069	GAL Thompson Water Sealer, 150 SF Per Gallon .....	16.82	
	09 91	33	00-0070	GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	31.38	
	09 91	33	00-0071	GAL Redwood Oil Stain, 300 SF Per Gallon.....	27.98	
	09 91	33	00-0072	GAL Varnish, Clear .....	21.36	
	09 91	33	00-0073	GAL Penetrating Water-Repellent Stain.....	15.51	
	09 91	33	00-0074	GAL Redwood Hue Or Clear Stain.....	13.87	
	09 91	33	00-0075	GAL Polyurethane.....	24.34	
	09 91	33	00-0076	GAL Lacquer, Semi-Gloss .....	29.53	
	09 91	33	00-0077	GAL Shellac, Clear.....	38.74	
	09 91	33	00-0078	GAL Acetone.....	12.78	
	09 91	33	00-0079	GAL Paint Thinner.....	3.15	
	09 91	33	00-0080	GAL Shellac Or Lacquer Thinner .....	12.94	
	09 91	33	00-0081	GAL Turpentine.....	17.79	
	09 91	33	00-0082	GAL Wood Filler Paste.....	30.41	
	09 91	33	00-0083	GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon .....	24.26	
	09 91	33	00-0084	GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	59.41	
	09 91	43		<b>Surface Preparation</b> (09 91)		
				See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
	09 96			<b>High-Performance Coatings</b> (09 90)		
	09 96	23		<b>Graffiti-Resistant Coatings</b> (09 96)		
	09 96	23	00-0001	<b>Anti-Graffiti Coating</b> (09 96 23)		
	09 96	23	00-0002	SF Sacrificial Anti-Graffiti Coating, Per Coat .....	1.32	
				For Up To 100, Add	0.85	
				For >100 To 250, Add	0.40	
				For >250 To 500, Add	0.18	

**09 Finishes**

**09 90 Painting And Coating**

**09 96 High-Performance Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.38	
			<i>For Up To 100, Add</i>	0.86	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
<b>09 96 53 Elastomeric Coatings (09 96)</b>					
09 96 53 00-0001			<b>Elastomeric (09 96 53)</b>		
			Note: Per coat.		
09 96 53 00-0002	SF		Paint, Brush, Elastomeric, Per Coat.....	2.30	
			<i>For Work &gt;20', Add</i>	0.41	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	1.32	
			<i>For &gt;100 To 250, Add</i>	0.64	
			<i>For &gt;250 To 500, Add</i>	0.28	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.23	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.35	
			<i>For &gt;20,000, Deduct</i>	-0.46	
09 96 53 00-0003	SF		Paint, Roller, Elastomeric, Per Coat.....	1.82	
			<i>For Work &gt;20', Add</i>	0.29	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.96	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.18	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.27	
			<i>For &gt;20,000, Deduct</i>	-0.36	
09 96 53 00-0004	SF		Paint, Conventional Spray, Elastomeric, Per Coat.....	1.59	
			<i>For Work &gt;20', Add</i>	0.20	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.72	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.32	
09 96 53 00-0005	SF		Paint, Airless Spray, Elastomeric, Per Coat.....	1.43	
			<i>For Work &gt;20', Add</i>	0.16	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.60	
			<i>For &gt;100 To 250, Add</i>	0.30	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.29	
<b>09 96 56 Epoxy Coatings (09 96)</b>					
09 96 56 00-0001			<b>High Build Epoxy (09 96 56)</b>		
09 96 56 00-0002	SF		High Build Epoxy - 50 Mil.....	3.14	
09 96 56 00-0003			<b>Laminated Epoxy With Fiberglass (09 96 56)</b>		
09 96 56 00-0004	SF		Laminated Epoxy With Fiberglass.....	5.61	
<b>09 96 66 Aggregate Wall Coatings (09 96)</b>					
09 96 66 00-0001			<b>Troweled On (09 96 66)</b>		
09 96 66 00-0002	SF		Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	4.05	
09 96 66 00-0003	SF		Exposed Aggregate - 1/2" To 5/8" Troweled On.....	7.28	
09 96 66 00-0004	SF		Exposed Aggregate - 1" Troweled On.....	10.80	
09 96 66 00-0005			<b>Sprayed On (09 96 66)</b>		
09 96 66 00-0006	SF		Exposed Aggregate - 1/8" - Sprayed On.....	3.28	
<b>09 97 Special Coatings (09 90)</b>					
<b>09 97 13 Steel Coatings (09 97)</b>					
<b>09 97 13 23 Exterior Steel Coatings (09 97 13)</b>					
			Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 97 13 23-0001			<b>Surface Preparation For Structural Steel (09 97 13 23)</b>		
			Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>09 97 13 23-0002 SSSP SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
09 97 13 23-0003 SF Type 1 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....	1.54	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0004 SF Type 2 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....	1.47	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 23-0005 SF Type 3 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....	1.47	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....	2.00	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
<b>09 97 13 23-0007 SSSP SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
09 97 13 23-0008 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation .....	0.96	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0009 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation .....	0.85	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 23-0010 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation .....	0.84	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 23-0011 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation .....	1.20	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
<b>09 97 13 23-0012 SSSP SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
09 97 13 23-0013 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation .....	2.46	
For Up To 100, Add	1.73	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
09 97 13 23-0014 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation .....	2.14	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
09 97 13 23-0015 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation .....	2.00	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.28	
09 97 13 23-0016 SF Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation .....	3.08	
For Up To 100, Add	2.20	
For >100 To 250, Add	1.03	
For >250 To 500, Add	0.44	
<b>09 97 13 23-0017 SSSP SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
09 97 13 23-0018 SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation .....	4.79	
For Up To 100, Add	3.39	
For >100 To 250, Add	1.59	
For >250 To 500, Add	0.69	
09 97 13 23-0019 SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation .....	4.11	
For Up To 100, Add	2.90	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.59	
09 97 13 23-0020 SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation .....	3.78	
For Up To 100, Add	2.65	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 23-0021 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation .....	5.77	
For Up To 100, Add	4.14	
For >100 To 250, Add	1.94	
For >250 To 500, Add	0.83	
<b>09 97 13 23-0022 SSSP SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 97</b>	<b>Special Coatings</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0023	SF	Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.57	
		For Up To 100, Add	2.52	
		For >100 To 250, Add	1.18	
		For >250 To 500, Add	0.51	
09 97 13 23-0024	SF	Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.04	
		For Up To 100, Add	2.14	
		For >100 To 250, Add	1.01	
		For >250 To 500, Add	0.43	
09 97 13 23-0025	SF	Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	2.87	
		For Up To 100, Add	2.01	
		For >100 To 250, Add	0.95	
		For >250 To 500, Add	0.41	
09 97 13 23-0026	SF	Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation .....	4.20	
		For Up To 100, Add	3.01	
		For >100 To 250, Add	1.41	
		For >250 To 500, Add	0.61	
<b>09 97 13 23-0027</b>		<b>Protective Coatings For Tanks And Structural Steel</b> (09 97 13 23)		
		Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
<b>09 97 13 23-0028</b>		<b>1.5 Mil Prime Coat For Structural Steel</b> (09 97 13 23-0027)		
09 97 13 23-0029	SF	Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	0.95	
		For Up To 100, Add	0.65	
		For >100 To 250, Add	0.31	
		For >250 To 500, Add	0.13	
09 97 13 23-0030	SF	Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.72	
		For Up To 100, Add	0.48	
		For >100 To 250, Add	0.23	
		For >250 To 500, Add	0.10	
09 97 13 23-0031	SF	Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.63	
		For Up To 100, Add	0.41	
		For >100 To 250, Add	0.20	
		For >250 To 500, Add	0.08	
09 97 13 23-0032	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.15	
		For Up To 100, Add	0.80	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.16	
09 97 13 23-0033	SF	Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.39	
		For Up To 100, Add	0.98	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.20	
09 97 13 23-0034	SF	Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.03	
		For Up To 100, Add	0.71	
		For >100 To 250, Add	0.34	
		For >250 To 500, Add	0.14	
09 97 13 23-0035	SF	Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.91	
		For Up To 100, Add	0.62	
		For >100 To 250, Add	0.29	
		For >250 To 500, Add	0.13	
09 97 13 23-0036	SF	Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.70	
		For Up To 100, Add	1.21	
		For >100 To 250, Add	0.57	
		For >250 To 500, Add	0.24	
<b>09 97 13 23-0037</b>		<b>1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel</b> (09 97 13 23-0027)		
09 97 13 23-0038	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	2.80	
		For Up To 100, Add	1.89	
		For >100 To 250, Add	0.89	
		For >250 To 500, Add	0.39	
09 97 13 23-0039	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	2.00	
		For Up To 100, Add	1.31	
		For >100 To 250, Add	0.62	
		For >250 To 500, Add	0.27	
09 97 13 23-0040	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	1.85	
		For Up To 100, Add	1.20	
		For >100 To 250, Add	0.57	
		For >250 To 500, Add	0.25	
09 97 13 23-0041	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	3.43	
		For Up To 100, Add	2.35	
		For >100 To 250, Add	1.11	
		For >250 To 500, Add	0.48	
09 97 13 23-0042	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.11	
		For Up To 100, Add	1.42	
		For >100 To 250, Add	0.67	
		For >250 To 500, Add	0.29	
09 97 13 23-0043	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.50	
		For Up To 100, Add	0.98	
		For >100 To 250, Add	0.47	
		For >250 To 500, Add	0.20	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0044 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.39	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.18	
09 97 13 23-0045 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.58	
For Up To 100, Add	1.77	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
09 97 13 23-0046 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	4.43	
For Up To 100, Add	3.11	
For >100 To 250, Add	1.46	
For >250 To 500, Add	0.63	
09 97 13 23-0047 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	3.12	
For Up To 100, Add	2.15	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.44	
09 97 13 23-0048 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	2.87	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 23-0049 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	5.47	
For Up To 100, Add	3.88	
For >100 To 250, Add	1.82	
For >250 To 500, Add	0.78	
09 97 13 23-0050 SF Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	3.33	
For Up To 100, Add	2.34	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
09 97 13 23-0051 SF Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.35	
For Up To 100, Add	1.62	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
09 97 13 23-0052 SF Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.15	
For Up To 100, Add	1.47	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0053 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	4.11	
For Up To 100, Add	2.91	
For >100 To 250, Add	1.37	
For >250 To 500, Add	0.59	
<b>09 97 13 23-0054 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0027)</b> .....	<b>2.17</b>	
09 97 13 23-0055 SF Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.17	
For Up To 100, Add	1.47	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0056 SF Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	1.76	
For Up To 100, Add	1.18	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0057 SF Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	1.61	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 23-0058 SF Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.72	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
09 97 13 23-0059 SF Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.38	
For Up To 100, Add	0.94	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 23-0060 SF Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.13	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
09 97 13 23-0061 SF Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.03	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 23-0062 SF Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.74	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.24	
09 97 13 23-0063 SF Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	3.17	
For Up To 100, Add	2.22	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
09 97 13 23-0064 SF Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.56	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	

**09 Finishes**  
**09 90 Painting And Coating**  
**09 97 Special Coatings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0065 SF Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.33	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
09 97 13 23-0066 SF Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	4.00	
For Up To 100, Add	2.84	
For >100 To 250, Add	1.33	
For >250 To 500, Add	0.57	
09 97 13 23-0067 SF Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	2.02	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 23-0068 SF Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.64	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0069 SF Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.49	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 23-0070 SF Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	2.55	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
<b>09 97 13 23-0071 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel</b> <small>(09 97 13 23-0027)</small>		
09 97 13 23-0072 SF Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	3.47	
For Up To 100, Add	2.17	
For >100 To 250, Add	1.03	
For >250 To 500, Add	0.45	
09 97 13 23-0073 SF Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.49	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
09 97 13 23-0074 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.18	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 23-0075 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	3.95	
For Up To 100, Add	2.52	
For >100 To 250, Add	1.20	
For >250 To 500, Add	0.52	
09 97 13 23-0076 SF Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.43	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.31	
09 97 13 23-0077 SF Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.74	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.22	
09 97 13 23-0078 SF Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.53	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 23-0079 SF Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.77	
For Up To 100, Add	1.77	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	
<b>09 97 13 23-0080 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel</b> <small>(09 97 13 23-0027)</small>		
09 97 13 23-0081 SF Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	3.67	
For Up To 100, Add	2.20	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.46	
09 97 13 23-0082 SF Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	2.67	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
09 97 13 23-0083 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	2.36	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0084 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	4.16	
For Up To 100, Add	2.55	
For >100 To 250, Add	1.22	
For >250 To 500, Add	0.53	
09 97 13 23-0085 SF Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats .....	3.01	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0086 SF Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.19	
<i>For Up To 100, Add</i>	1.23	
<i>For &gt;100 To 250, Add</i>	0.60	
<i>For &gt;250 To 500, Add</i>	0.26	
09 97 13 23-0087 SF Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	1.93	
<i>For Up To 100, Add</i>	1.04	
<i>For &gt;100 To 250, Add</i>	0.51	
<i>For &gt;250 To 500, Add</i>	0.22	
09 97 13 23-0088 SF Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats.....	3.42	
<i>For Up To 100, Add</i>	2.10	
<i>For &gt;100 To 250, Add</i>	1.00	
<i>For &gt;250 To 500, Add</i>	0.44	
<b>09 97 13 23-0089 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small></b>		
09 97 13 23-0090 SF Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.74	
<i>For Up To 100, Add</i>	4.75	
<i>For &gt;100 To 250, Add</i>	2.27	
<i>For &gt;250 To 500, Add</i>	0.99	
09 97 13 23-0091 SF Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.79	
<i>For Up To 100, Add</i>	3.39	
<i>For &gt;100 To 250, Add</i>	1.63	
<i>For &gt;250 To 500, Add</i>	0.71	
09 97 13 23-0092 SF Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.56	
<i>For Up To 100, Add</i>	3.22	
<i>For &gt;100 To 250, Add</i>	1.55	
<i>For &gt;250 To 500, Add</i>	0.68	
09 97 13 23-0093 SF Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	9.07	
<i>For Up To 100, Add</i>	5.72	
<i>For &gt;100 To 250, Add</i>	2.72	
<i>For &gt;250 To 500, Add</i>	1.18	
<b>09 97 13 23-0094 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small></b>		
09 97 13 23-0095 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.99	
<i>For Up To 100, Add</i>	2.30	
<i>For &gt;100 To 250, Add</i>	1.11	
<i>For &gt;250 To 500, Add</i>	0.48	
09 97 13 23-0096 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.07	
<i>For Up To 100, Add</i>	1.61	
<i>For &gt;100 To 250, Add</i>	0.78	
<i>For &gt;250 To 500, Add</i>	0.34	
09 97 13 23-0097 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.93	
<i>For Up To 100, Add</i>	1.50	
<i>For &gt;100 To 250, Add</i>	0.74	
<i>For &gt;250 To 500, Add</i>	0.32	
09 97 13 23-0098 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.57	
<i>For Up To 100, Add</i>	2.71	
<i>For &gt;100 To 250, Add</i>	1.30	
<i>For &gt;250 To 500, Add</i>	0.57	
09 97 13 23-0099 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.16	
<i>For Up To 100, Add</i>	1.82	
<i>For &gt;100 To 250, Add</i>	0.88	
<i>For &gt;250 To 500, Add</i>	0.38	
09 97 13 23-0100 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.42	
<i>For Up To 100, Add</i>	1.27	
<i>For &gt;100 To 250, Add</i>	0.62	
<i>For &gt;250 To 500, Add</i>	0.27	
09 97 13 23-0101 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.30	
<i>For Up To 100, Add</i>	1.18	
<i>For &gt;100 To 250, Add</i>	0.58	
<i>For &gt;250 To 500, Add</i>	0.25	
09 97 13 23-0102 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	3.61	
<i>For Up To 100, Add</i>	2.14	
<i>For &gt;100 To 250, Add</i>	1.03	
<i>For &gt;250 To 500, Add</i>	0.45	
<b>09 97 13 23-0103 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel <small>(09 97 13 23-0027)</small></b>		
09 97 13 23-0104 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.49	
<i>For Up To 100, Add</i>	2.22	
<i>For &gt;100 To 250, Add</i>	1.06	
<i>For &gt;250 To 500, Add</i>	0.46	
09 97 13 23-0105 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.82	
<i>For Up To 100, Add</i>	1.76	
<i>For &gt;100 To 250, Add</i>	0.84	
<i>For &gt;250 To 500, Add</i>	0.36	
09 97 13 23-0106 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.59	
<i>For Up To 100, Add</i>	1.58	
<i>For &gt;100 To 250, Add</i>	0.76	
<i>For &gt;250 To 500, Add</i>	0.33	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 97</b>	<b>Special Coatings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0107 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	4.36	
For Up To 100, Add	2.86	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.59	
<b>09 97 13 23-0108 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0027)</b>		
09 97 13 23-0109 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.41	
For Up To 100, Add	2.26	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.46	
09 97 13 23-0110 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.38	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 23-0111 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.00	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.91	
For Up To 100, Add	2.61	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.53	
<b>09 97 13 23-0113 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0027)</b>		
09 97 13 23-0114 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.74	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 23-0115 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.25	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 23-0116 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.17	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 23-0117 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat.....	1.84	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
<b>09 97 13 23-0118 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0027)</b> Note: Installed over existing primer.		
09 97 13 23-0119 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.76	
For Up To 100, Add	1.70	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
09 97 13 23-0120 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.23	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
09 97 13 23-0121 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.93	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0122 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.24	
For Up To 100, Add	2.05	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.42	
<b>09 97 13 24 Steel Water Storage Tank Painting (09 97 13)</b>		
<b>09 97 13 24-0001 Surface Preparation For Tanks (09 97 13 24)</b> Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
<b>09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)</b>		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.47	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.30	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	





<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....	1.85	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
<b>09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)</b>		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation .....	0.80	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation .....	0.65	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation .....	1.13	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
<b>09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)</b>		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation .....	2.00	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.28	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation .....	1.83	
For Up To 100, Add	1.26	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation .....	2.65	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
<b>09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)</b>		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation .....	3.59	
For Up To 100, Add	2.52	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation .....	3.43	
For Up To 100, Add	2.40	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.49	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation .....	4.99	
For Up To 100, Add	3.57	
For >100 To 250, Add	1.67	
For >250 To 500, Add	0.72	
<b>09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)</b>		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation .....	2.87	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.95	
For >250 To 500, Add	0.41	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation .....	2.87	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.95	
For >250 To 500, Add	0.41	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation .....	4.20	
For Up To 100, Add	3.01	
For >100 To 250, Add	1.41	
For >250 To 500, Add	0.61	
<b>09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24-0022)</b>		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
<b>09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat .....	0.55	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat .....	0.44	
For Up To 100, Add	0.28	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	

**09 Finishes**  
**09 90 Painting And Coating**  
**09 97 Special Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat .....	1.09	
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat.....	0.79	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat .....	0.62	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat .....	1.61	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
<b>09 97 13 24-0030</b>			<b>1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0031	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	1.61	
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 24-0032	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.22	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
09 97 13 24-0033	SF		Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.06	
			For Up To 100, Add	2.11	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 24-0034	SF		Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.21	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
09 97 13 24-0035	SF		Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	0.92	
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.12	
09 97 13 24-0036	SF		Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.29	
			For Up To 100, Add	1.58	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 24-0037	SF		Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	2.48	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.34	
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.84	
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.90	
			For Up To 100, Add	3.49	
			For >100 To 250, Add	1.64	
			For >250 To 500, Add	0.70	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.86	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.37	
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.68	
			For Up To 100, Add	2.62	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
<b>09 97 13 24-0043</b>			<b>Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0044	SF		Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	1.45	
			For Up To 100, Add	0.95	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.19	
09 97 13 24-0045	SF		Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.23	
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
09 97 13 24-0046	SF		Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.22	
			For Up To 100, Add	2.28	
			For >100 To 250, Add	1.07	
			For >250 To 500, Add	0.46	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.93	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.79	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	2.06	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
09 97 13 24-0050 SF Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.09	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 24-0051 SF Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	1.75	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 24-0052 SF Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	5.12	
For Up To 100, Add	3.75	
For >100 To 250, Add	1.75	
For >250 To 500, Add	0.75	
09 97 13 24-0053 SF Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.35	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0054 SF Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.11	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 24-0055 SF Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	3.33	
For Up To 100, Add	2.41	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.48	
<b>09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks</b>		
<small>(09 97 13 24-0022)</small>		
09 97 13 24-0057 SF Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.01	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 24-0058 SF Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.70	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0059 SF Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.41	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
09 97 13 24-0060 SF Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.19	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
<b>09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks</b>		
<small>(09 97 13 24-0022)</small>		
09 97 13 24-0062 SF Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	2.19	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	1.88	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	1.79	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats .....	1.54	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.17	
<b>09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks</b>		
<small>(09 97 13 24-0022)</small>		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.36	
For Up To 100, Add	3.10	
For >100 To 250, Add	1.49	
For >250 To 500, Add	0.65	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting And Coating</b>
<b>09 97</b>	<b>Special Coatings</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0068	SF	Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	4.90	
		For Up To 100, Add	2.76	
		For >100 To 250, Add	1.33	
		For >250 To 500, Add	0.58	
09 97 13 24-0069	SF	Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats .....	8.42	
		For Up To 100, Add	5.40	
		For >100 To 250, Add	2.56	
		For >250 To 500, Add	1.11	
<b>09 97 13 24-0070</b>		<b>1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0071	SF	Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.74	
		For Up To 100, Add	1.44	
		For >100 To 250, Add	0.70	
		For >250 To 500, Add	0.31	
09 97 13 24-0072	SF	Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.41	
		For Up To 100, Add	1.19	
		For >100 To 250, Add	0.59	
		For >250 To 500, Add	0.26	
09 97 13 24-0073	SF	Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats .....	4.24	
		For Up To 100, Add	2.56	
		For >100 To 250, Add	1.23	
		For >250 To 500, Add	0.53	
09 97 13 24-0074	SF	Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.17	
		For Up To 100, Add	1.14	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.24	
09 97 13 24-0075	SF	Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	1.90	
		For Up To 100, Add	0.94	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.20	
09 97 13 24-0076	SF	Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats .....	3.35	
		For Up To 100, Add	2.03	
		For >100 To 250, Add	0.97	
		For >250 To 500, Add	0.42	
<b>09 97 13 24-0077</b>		<b>Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0078	SF	Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.57	
		For Up To 100, Add	1.58	
		For >100 To 250, Add	0.75	
		For >250 To 500, Add	0.33	
09 97 13 24-0079	SF	Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.11	
		For Up To 100, Add	1.23	
		For >100 To 250, Add	0.59	
		For >250 To 500, Add	0.26	
09 97 13 24-0080	SF	Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats .....	3.33	
		For Up To 100, Add	2.15	
		For >100 To 250, Add	1.02	
		For >250 To 500, Add	0.44	
<b>09 97 13 24-0081</b>		<b>One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0082	SF	Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.76	
		For Up To 100, Add	1.04	
		For >100 To 250, Add	0.50	
		For >250 To 500, Add	0.22	
09 97 13 24-0083	SF	Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.61	
		For Up To 100, Add	0.93	
		For >100 To 250, Add	0.45	
		For >250 To 500, Add	0.20	
09 97 13 24-0084	SF	Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.76	
		For Up To 100, Add	1.79	
		For >100 To 250, Add	0.85	
		For >250 To 500, Add	0.37	
<b>09 97 13 24-0085</b>		<b>Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)</b>		
09 97 13 24-0086	SF	Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats .....	3.92	
		For Up To 100, Add	2.42	
		For >100 To 250, Add	1.16	
		For >250 To 500, Add	0.50	
09 97 13 24-0087	SF	Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats .....	2.31	
		For Up To 100, Add	1.26	
		For >100 To 250, Add	0.61	
		For >250 To 500, Add	0.27	
<b>09 97 13 24-0088</b>		<b>One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)</b>		



<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting And Coating	09 90	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.08	
<i>For Up To 100, Add</i>	0.53	
<i>For &gt;100 To 250, Add</i>	0.26	
<i>For &gt;250 To 500, Add</i>	0.12	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat .....	1.05	
<i>For Up To 100, Add</i>	0.51	
<i>For &gt;100 To 250, Add</i>	0.25	
<i>For &gt;250 To 500, Add</i>	0.11	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat .....	1.76	
<i>For Up To 100, Add</i>	1.04	
<i>For &gt;100 To 250, Add</i>	0.50	
<i>For &gt;250 To 500, Add</i>	0.22	
<b>09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		
<small>Note: Installed over existing primer.</small>		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats .....	1.83	
<i>For Up To 100, Add</i>	1.05	
<i>For &gt;100 To 250, Add</i>	0.51	
<i>For &gt;250 To 500, Add</i>	0.22	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats .....	1.60	
<i>For Up To 100, Add</i>	0.88	
<i>For &gt;100 To 250, Add</i>	0.43	
<i>For &gt;250 To 500, Add</i>	0.19	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.59	
<i>For Up To 100, Add</i>	1.62	
<i>For &gt;100 To 250, Add</i>	0.77	
<i>For &gt;250 To 500, Add</i>	0.34	
<b>09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks</b> <small>(09 97 13 24-0022)</small>		
<small>97 13 24-0022</small>		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	6.92	
<i>For Up To 100, Add</i>	4.53	
<i>For &gt;100 To 250, Add</i>	2.15	
<i>For &gt;250 To 500, Add</i>	0.93	
<b>09 97 26 Cementitious Coatings</b> <small>(09 97)</small>		
<b>09 97 26 13 Interior Cementitious Coatings</b> <small>(09 97 26)</small>		
09 97 26 13-0001 Ceramic-Like Glazed Coating <small>(09 97 26 13)</small>		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious <small>(09 97 26 13-0001)</small>		
09 97 26 13-0003 SF Ceramic-like Glazed Coating. - Cementitious .....	2.67	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base <small>(09 97 26 13-0001)</small>		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin .....	2.25	
<b>09 97 63 Special Coatings and Protection Systems</b> <small>(09 97)</small>		
09 97 63 00-0001 Acrylic Glazed Coating <small>(09 97 63)</small>		
09 97 63 00-0002 SF Acrylic Glazed Coating.....	1.75	

**END OF SECTION 09**

<b>09</b>	<b>09</b>	<b>Finishes</b>
	09 90	Painting And Coating
	09 97	Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>Specialties</b>	<b>10</b>	<b>10</b>
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 10 Specialties

### 10 10 Information Specialties <sup>(10)</sup>

#### 10 14 Signage <sup>(10 10)</sup>

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

#### 10 14 53 Traffic Signage <sup>(10 14)</sup>

##### 10 14 53 11 Traffic Signage <sup>(10 14 53)</sup>

##### 10 14 53 11-0001 Traffic Signs (Monterey County) <sup>(10 14 53 11)</sup>

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County) .....	307.63	
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County) .....	165.35	

##### 10 14 53 11-0004 Traffic Signs <sup>(10 14 53 11)</sup>

##### 10 14 53 11-0005 Reflectorized Stop Signs And Other Traffic Signs <sup>(10 14 53 11-0004)</sup>

Note: Excludes posts.

##### 10 14 53 11-0006 Aluminum Engineer Grade Stop Signs <sup>(10 14 53 11-0005)</sup>

10 14 53 11-0007	EA	18" x 18" Aluminum Engineer Grade Stop Sign .....	54.11	16.58
		For Hi-Intensity Grade, Add	6.29	
		For Diamond Grade, Add	11.94	
10 14 53 11-0008	EA	18" x 24" Aluminum Engineer Grade Stop Sign .....	62.39	17.54
		For Hi-Intensity Grade, Add	8.22	
		For Diamond Grade, Add	15.61	
10 14 53 11-0009	EA	24" x 24" Aluminum Engineer Grade Stop Sign .....	67.45	18.42
		For Hi-Intensity Grade, Add	12.55	
		For Diamond Grade, Add	19.90	
10 14 53 11-0010	EA	30" x 30" Aluminum Engineer Grade Stop Sign .....	77.89	19.38
		For Hi-Intensity Grade, Add	4.71	
		For Diamond Grade, Add	25.49	
10 14 53 11-0011	EA	36" x 36" Aluminum Engineer Grade Stop Sign .....	103.37	20.26
		For Hi-Intensity Grade, Add	13.82	
		For Diamond Grade, Add	43.36	

##### 10 14 53 11-0012 Other Reflectorized Traffic Signs <sup>(10 14 53 11-0005)</sup>

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

##### 10 14 53 11-0013 Aluminum Engineer Grade Traffic Signs <sup>(10 14 53 11-0012)</sup>

10 14 53 11-0014	EA	6" x 12" Aluminum Engineer Grade Traffic Sign .....	34.67	14.73
		For Hi-Intensity Grade, Add	1.56	
10 14 53 11-0015	EA	6" x 18" Aluminum Engineer Grade Traffic Sign .....	37.26	14.73
		For Hi-Intensity Grade, Add	2.33	
10 14 53 11-0016	EA	9" x 12" Aluminum Engineer Grade Traffic Sign .....	37.26	14.73
		For Hi-Intensity Grade, Add	2.33	
10 14 53 11-0017	EA	9" x 15" Aluminum Engineer Grade Traffic Sign .....	39.21	14.73
		For Hi-Intensity Grade, Add	2.92	
10 14 53 11-0018	EA	9" x 18" Aluminum Engineer Grade Traffic Sign .....	41.15	14.73
		For Hi-Intensity Grade, Add	3.50	
10 14 53 11-0019	EA	9" x 24" Aluminum Engineer Grade Traffic Sign .....	46.88	15.66
		For Hi-Intensity Grade, Add	4.67	
10 14 53 11-0020	EA	9" x 48" Aluminum Engineer Grade Traffic Sign .....	62.44	15.66
		For Hi-Intensity Grade, Add	9.34	
10 14 53 11-0021	EA	12" x 12" Aluminum Engineer Grade Traffic Sign .....	39.86	14.73
		For Hi-Intensity Grade, Add	3.11	
10 14 53 11-0022	EA	12" x 18" Aluminum Engineer Grade Traffic Sign .....	46.88	15.66
		For Hi-Intensity Grade, Add	4.67	
10 14 53 11-0023	EA	12" x 24" Aluminum Engineer Grade Traffic Sign .....	52.06	15.66
		For Hi-Intensity Grade, Add	6.23	
10 14 53 11-0024	EA	12" x 30" Aluminum Engineer Grade Traffic Sign .....	57.25	15.66
		For Hi-Intensity Grade, Add	7.78	
10 14 53 11-0025	EA	12" x 36" Aluminum Engineer Grade Traffic Sign .....	62.44	15.66
		For Hi-Intensity Grade, Add	9.34	
10 14 53 11-0026	EA	18" x 18" Aluminum Engineer Grade Traffic Sign .....	54.66	15.66
		For Hi-Intensity Grade, Add	7.01	
10 14 53 11-0027	EA	18" x 24" Aluminum Engineer Grade Traffic Sign .....	62.44	15.66
		For Hi-Intensity Grade, Add	9.34	
10 14 53 11-0028	EA	18" x 30" Aluminum Engineer Grade Traffic Sign .....	72.08	16.58
		For Hi-Intensity Grade, Add	11.68	
10 14 53 11-0029	EA	18" x 36" Aluminum Engineer Grade Traffic Sign .....	79.86	16.58
		For Hi-Intensity Grade, Add	14.01	
10 14 53 11-0030	EA	18" x 48" Aluminum Engineer Grade Traffic Sign .....	102.79	20.26
		For Hi-Intensity Grade, Add	18.68	
10 14 53 11-0031	EA	18" x 54" Aluminum Engineer Grade Traffic Sign .....	110.58	20.26
		For Hi-Intensity Grade, Add	21.02	

**10 Specialties****10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032 EA 24" x 24" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	74.67 12.45	16.58
10 14 53 11-0033 EA 24" x 30" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	85.05 15.57	16.58
10 14 53 11-0034 EA 24" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	95.42 18.68	16.58
10 14 53 11-0035 EA 24" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	113.17 21.79	20.26
10 14 53 11-0036 EA 24" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	123.55 24.91	20.26
10 14 53 11-0037 EA 24" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	133.93 28.02	20.26
10 14 53 11-0038 EA 24" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	144.30 31.13	20.26
10 14 53 11-0039 EA 30" x 30" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	98.02 19.46	16.58
10 14 53 11-0040 EA 30" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	118.36 23.35	20.26
10 14 53 11-0041 EA 30" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	131.33 27.24	20.26
10 14 53 11-0042 EA 30" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	151.66 31.13	23.95
10 14 53 11-0043 EA 30" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	184.98 38.92	27.63
10 14 53 11-0044 EA 36" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	133.93 28.02	20.26
10 14 53 11-0045 EA 36" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	156.85 32.69	23.95
10 14 53 11-0046 EA 36" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	179.79 37.36	27.63
10 14 53 11-0047 EA 36" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	195.36 42.03	27.63
10 14 53 11-0048 EA 36" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	218.30 46.70	31.31
10 14 53 11-0049 EA 36" x 73" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	259.39 56.82	35.00
10 14 53 11-0050 EA 36" x 78" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	272.36 60.71	35.00
10 14 53 11-0051 EA 36" x 108" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	361.24 84.06	40.53
10 14 53 11-0052 EA 42" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	182.38 38.14	27.63
10 14 53 11-0053 EA 48" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	228.68 49.81	31.31
10 14 53 11-0054 EA 48" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	256.79 56.04	35.00
10 14 53 11-0055 EA 48" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	277.55 62.27	35.00
10 14 53 11-0056 EA 48" x 66" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	309.35 68.49	40.53
10 14 53 11-0057 EA 48" x 72" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	330.11 74.72	40.53
10 14 53 11-0058 EA 48" x 84" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	378.99 87.17	44.21
10 14 53 11-0059 EA 48" x 96" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	420.50 99.62	44.21
10 14 53 11-0060 EA 48" x 102" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	441.25 105.85	44.21
10 14 53 11-0061 EA 48" x 108" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	465.69 112.08	46.06
10 14 53 11-0062 EA 60" x 72" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	399.74 93.40	44.21
10 14 53 11-0063 EA 72" x 144" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	865.08 224.15	58.94
10 14 53 11-0064 EA 78" x 96" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	631.73 161.89	46.06

**10 14 53 11-0065 Non-Reflectorized Traffic Signs** (10 14 53 11-0004)

Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.

**10 14 53 11-0066 Steel Non-Reflectorized Traffic Signs** (10 14 53 11-0065)

10 14 53 11-0067 EA 6" x 12" Steel Non Reflectorized Traffic Sign .....	33.97	14.73
10 14 53 11-0068 EA 6" x 18" Steel Non Reflectorized Traffic Sign .....	36.21	14.73
10 14 53 11-0069 EA 9" x 12" Steel Non Reflectorized Traffic Sign .....	36.21	14.73
10 14 53 11-0070 EA 9" x 15" Steel Non Reflectorized Traffic Sign .....	37.89	14.73
10 14 53 11-0071 EA 9" x 18" Steel Non Reflectorized Traffic Sign .....	39.57	14.73
10 14 53 11-0072 EA 9" x 24" Steel Non Reflectorized Traffic Sign .....	44.77	15.66
10 14 53 11-0073 EA 9" x 48" Steel Non Reflectorized Traffic Sign .....	58.22	15.66
10 14 53 11-0074 EA 12" x 12" Steel Non Reflectorized Traffic Sign .....	38.45	14.73
10 14 53 11-0075 EA 12" x 18" Steel Non Reflectorized Traffic Sign .....	44.77	15.66
10 14 53 11-0076 EA 12" x 24" Steel Non Reflectorized Traffic Sign .....	49.25	15.66
10 14 53 11-0077 EA 12" x 30" Steel Non Reflectorized Traffic Sign .....	53.74	15.66



<b>Specialties</b>	<b>10</b>
Information Specialties	10 10
Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0078 EA 12" x 36" Steel Non ReflectORIZED Traffic Sign.....	58.22	15.66
10 14 53 11-0079 EA 18" x 18" Steel Non ReflectORIZED Traffic Sign.....	51.50	15.66
10 14 53 11-0080 EA 18" x 24" Steel Non ReflectORIZED Traffic Sign.....	58.22	15.66
10 14 53 11-0081 EA 18" x 30" Steel Non ReflectORIZED Traffic Sign.....	66.80	16.58
10 14 53 11-0082 EA 18" x 36" Steel Non ReflectORIZED Traffic Sign.....	73.53	16.58
10 14 53 11-0083 EA 18" x 48" Steel Non ReflectORIZED Traffic Sign.....	94.36	20.26
10 14 53 11-0084 EA 18" x 54" Steel Non ReflectORIZED Traffic Sign.....	101.09	20.26
10 14 53 11-0085 EA 24" x 24" Steel Non ReflectORIZED Traffic Sign.....	69.05	16.58
10 14 53 11-0086 EA 24" x 30" Steel Non ReflectORIZED Traffic Sign.....	78.02	16.58
10 14 53 11-0087 EA 24" x 36" Steel Non ReflectORIZED Traffic Sign.....	86.99	16.58
10 14 53 11-0088 EA 24" x 42" Steel Non ReflectORIZED Traffic Sign.....	103.33	20.26
10 14 53 11-0089 EA 24" x 48" Steel Non ReflectORIZED Traffic Sign.....	112.30	20.26
10 14 53 11-0090 EA 24" x 54" Steel Non ReflectORIZED Traffic Sign.....	121.27	20.26
10 14 53 11-0091 EA 24" x 60" Steel Non ReflectORIZED Traffic Sign.....	130.24	20.26
10 14 53 11-0092 EA 30" x 30" Steel Non ReflectORIZED Traffic Sign.....	89.23	16.58
10 14 53 11-0093 EA 30" x 36" Steel Non ReflectORIZED Traffic Sign.....	107.81	20.26
10 14 53 11-0094 EA 30" x 42" Steel Non ReflectORIZED Traffic Sign.....	119.03	20.26
10 14 53 11-0095 EA 30" x 48" Steel Non ReflectORIZED Traffic Sign.....	137.60	23.95
10 14 53 11-0096 EA 30" x 60" Steel Non ReflectORIZED Traffic Sign.....	167.40	27.63
10 14 53 11-0097 EA 36" x 36" Steel Non ReflectORIZED Traffic Sign.....	121.27	20.26
10 14 53 11-0098 EA 36" x 42" Steel Non ReflectORIZED Traffic Sign.....	142.09	23.95
10 14 53 11-0099 EA 36" x 48" Steel Non ReflectORIZED Traffic Sign.....	162.92	27.63
10 14 53 11-0100 EA 36" x 54" Steel Non ReflectORIZED Traffic Sign.....	176.37	27.63
10 14 53 11-0101 EA 36" x 60" Steel Non ReflectORIZED Traffic Sign.....	197.21	31.31
10 14 53 11-0102 EA 36" x 73" Steel Non ReflectORIZED Traffic Sign.....	233.73	35.00
10 14 53 11-0103 EA 36" x 78" Steel Non ReflectORIZED Traffic Sign.....	244.94	35.00
10 14 53 11-0104 EA 36" x 108" Steel Non ReflectORIZED Traffic Sign.....	323.28	40.53
10 14 53 11-0105 EA 42" x 42" Steel Non ReflectORIZED Traffic Sign.....	165.16	27.63
10 14 53 11-0106 EA 48" x 48" Steel Non ReflectORIZED Traffic Sign.....	206.18	31.31
10 14 53 11-0107 EA 48" x 54" Steel Non ReflectORIZED Traffic Sign.....	231.48	35.00
10 14 53 11-0108 EA 48" x 60" Steel Non ReflectORIZED Traffic Sign.....	249.43	35.00
10 14 53 11-0109 EA 48" x 66" Steel Non ReflectORIZED Traffic Sign.....	278.42	40.53
10 14 53 11-0110 EA 48" x 72" Steel Non ReflectORIZED Traffic Sign.....	296.36	40.53
10 14 53 11-0111 EA 48" x 84" Steel Non ReflectORIZED Traffic Sign.....	339.62	44.21
10 14 53 11-0112 EA 48" x 96" Steel Non ReflectORIZED Traffic Sign.....	375.50	44.21
10 14 53 11-0113 EA 48" x 102" Steel Non ReflectORIZED Traffic Sign.....	393.44	44.21
10 14 53 11-0114 EA 48" x 108" Steel Non ReflectORIZED Traffic Sign.....	415.07	46.06
10 14 53 11-0115 EA 60" x 72" Steel Non ReflectORIZED Traffic Sign.....	357.56	44.21
10 14 53 11-0116 EA 72" x 144" Steel Non ReflectORIZED Traffic Sign.....	763.83	58.94
10 14 53 11-0117 EA 78" x 96" Steel Non ReflectORIZED Traffic Sign.....	558.61	46.06
<b>10 14 53 11-0118 Aluminum Non-ReflectORIZED Traffic Signs (10 14 53 11-0065)</b>		
10 14 53 11-0119 EA 6" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	34.15	14.73
10 14 53 11-0120 EA 6" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	36.48	14.73
10 14 53 11-0121 EA 9" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	36.48	14.73
10 14 53 11-0122 EA 9" x 15" Aluminum Non ReflectORIZED Traffic Sign.....	38.23	14.73
10 14 53 11-0123 EA 9" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	39.98	14.73
10 14 53 11-0124 EA 9" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	45.32	15.66
10 14 53 11-0125 EA 9" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	59.32	15.66
10 14 53 11-0126 EA 12" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	38.82	14.73
10 14 53 11-0127 EA 12" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	45.32	15.66
10 14 53 11-0128 EA 12" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	49.98	15.66
10 14 53 11-0129 EA 12" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	54.65	15.66
10 14 53 11-0130 EA 12" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	59.32	15.66
10 14 53 11-0131 EA 18" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	52.32	15.66
10 14 53 11-0132 EA 18" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	59.32	15.66
10 14 53 11-0133 EA 18" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	68.17	16.58
10 14 53 11-0134 EA 18" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	75.18	16.58
10 14 53 11-0135 EA 18" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	96.55	20.26
10 14 53 11-0136 EA 18" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	103.55	20.26
10 14 53 11-0137 EA 24" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	70.51	16.58
10 14 53 11-0138 EA 24" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	79.84	16.58
10 14 53 11-0139 EA 24" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	89.18	16.58
10 14 53 11-0140 EA 24" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	105.89	20.26
10 14 53 11-0141 EA 24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	115.23	20.26
10 14 53 11-0142 EA 24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	124.56	20.26
10 14 53 11-0143 EA 24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	133.90	20.26
10 14 53 11-0144 EA 30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	91.52	16.58
10 14 53 11-0145 EA 30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	110.56	20.26
10 14 53 11-0146 EA 30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	122.23	20.26
10 14 53 11-0147 EA 30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	141.26	23.95
10 14 53 11-0148 EA 30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	171.97	27.63
10 14 53 11-0149 EA 36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	124.56	20.26
10 14 53 11-0150 EA 36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	145.93	23.95
10 14 53 11-0151 EA 36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	167.30	27.63
10 14 53 11-0152 EA 36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	181.31	27.63
10 14 53 11-0153 EA 36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	202.69	31.31
10 14 53 11-0154 EA 36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	240.40	35.00
10 14 53 11-0155 EA 36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	252.07	35.00
10 14 53 11-0156 EA 36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	333.15	40.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0157 EA 42" x 42" Aluminum Non Reflectorized Traffic Sign .....	169.64	27.63
10 14 53 11-0158 EA 48" x 48" Aluminum Non Reflectorized Traffic Sign .....	212.03	31.31
10 14 53 11-0159 EA 48" x 54" Aluminum Non Reflectorized Traffic Sign .....	238.06	35.00
10 14 53 11-0160 EA 48" x 60" Aluminum Non Reflectorized Traffic Sign .....	256.74	35.00
10 14 53 11-0161 EA 48" x 66" Aluminum Non Reflectorized Traffic Sign .....	286.46	40.53
10 14 53 11-0162 EA 48" x 72" Aluminum Non Reflectorized Traffic Sign .....	305.14	40.53
10 14 53 11-0163 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign .....	349.85	44.21
10 14 53 11-0164 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign .....	387.20	44.21
10 14 53 11-0165 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign .....	405.87	44.21
10 14 53 11-0166 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign .....	428.23	46.06
10 14 53 11-0167 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign .....	368.53	44.21
10 14 53 11-0168 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign .....	790.16	58.94
10 14 53 11-0169 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign .....	577.62	46.06
<b>10 14 53 11-0170 Aluminum Street Signs (10 14 53 11-0004)</b> Note: Excludes posts.		
<b>10 14 53 11-0171 Aluminum Engineer Grade Street Signs (10 14 53 11-0170)</b>		
10 14 53 11-0172 EA 6" High, Aluminum Engineer Grade Street Sign.....	57.64	7.37
10 14 53 11-0173 EA 8" High, Aluminum Engineer Grade Street Sign.....	65.22	7.37
10 14 53 11-0174 EA 9" High, Aluminum Engineer Grade Street Sign.....	70.85	7.37
<b>10 14 53 11-0175 Street Sign Accessories (10 14 53 11-0170)</b>		
10 14 53 11-0176 EA Single Bracket And Post Cap For Street Sign.....	17.69	3.68
10 14 53 11-0177 EA Double Bracket And Post Cap For Street Sign .....	17.69	3.68
<b>10 14 53 11-0178 Sign Posts (10 14 53 11-0004)</b> Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
<b>10 14 53 11-0179 U-Channel Sign Posts (10 14 53 11-0178)</b> Note: Excludes digging and concrete.		
<b>10 14 53 11-0180 Baked Enamel U-Channel Sign Posts (10 14 53 11-0179)</b>		
10 14 53 11-0181 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	47.94	15.01
10 14 53 11-0182 EA 6' Baked Enamel U-Channel Sign Post.....	62.71	18.77
10 14 53 11-0183 EA 7' Baked Enamel U-Channel Sign Post.....	74.91	22.52
10 14 53 11-0184 EA 8' Baked Enamel U-Channel Sign Post.....	87.69	26.27
10 14 53 11-0185 EA 10' Baked Enamel U-Channel Sign Post.....	105.86	31.90
10 14 53 11-0186 EA 12' Baked Enamel U-Channel Sign Post.....	108.73	31.90
<b>10 14 53 11-0187 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0179)</b>		
10 14 53 11-0188 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base .....	51.63	15.01
10 14 53 11-0189 EA 6' Galvanized Steel U-Channel Sign Post.....	68.57	18.77
10 14 53 11-0190 EA 7' Galvanized Steel U-Channel Sign Post.....	88.16	22.52
10 14 53 11-0191 EA 8' Galvanized Steel U-Channel Sign Post.....	102.34	26.27
10 14 53 11-0192 EA 10' Galvanized Steel U-Channel Sign Post.....	116.52	31.90
10 14 53 11-0193 EA 12' Galvanized Steel U-Channel Sign Post.....	118.01	31.90
<b>10 14 53 11-0194 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0179)</b>		
10 14 53 11-0195 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base .....	47.07	15.01
10 14 53 11-0196 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post .....	60.82	18.77
10 14 53 11-0197 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	72.63	22.52
10 14 53 11-0198 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	84.97	26.27
10 14 53 11-0199 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	100.92	31.90
10 14 53 11-0200 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	105.80	31.90
<b>10 14 53 11-0201 Tubular Sign Posts (10 14 53 11-0178)</b> Note: Excludes digging and concrete.		
<b>10 14 53 11-0202 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0201)</b>		
10 14 53 11-0203 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	69.18	18.77
10 14 53 11-0204 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	82.15	22.52
10 14 53 11-0205 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	96.97	26.27
10 14 53 11-0206 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	124.54	31.90
10 14 53 11-0207 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	134.60	31.90
<b>10 14 53 11-0208 Square Sign Posts (10 14 53 11-0178)</b> Note: Excludes digging and concrete.		
<b>10 14 53 11-0209 Galvanized Steel Square Sign Posts (10 14 53 11-0208)</b>		
10 14 53 11-0210 EA 3' To 4' Galvanized Steel Square Sign Post Base.....	52.45	15.01
10 14 53 11-0211 EA 6' Galvanized Steel Square Sign Post.....	82.45	18.77
10 14 53 11-0212 EA 7' Galvanized Steel Square Sign Post .....	96.79	22.52
10 14 53 11-0213 EA 8' Galvanized Steel Square Sign Post.....	112.91	26.27
10 14 53 11-0214 EA 10' Galvanized Steel Square Sign Post .....	137.84	31.90



<b>Specialties</b>	<b>10</b>	<b>10</b>
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0215 EA 12' Galvanized Steel Square Sign Post .....	144.86	31.90
<b>10 14 53 11-0216 Other Sign Posts And Bases</b> (10 14 53 11-0004) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0217 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0216)		
10 14 53 11-0218 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 11-0217)		
10 14 53 11-0219 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	67.45	18.42
10 14 53 11-0220 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	37.97	14.73
<b>10 14 53 11-0221 Breakaway Sign Posts, 2.5 LB/LF</b> (10 14 53 11-0217)		
10 14 53 11-0222 LF 2.5 LB/LF Breakaway Sign Post .....	7.58	1.85
<b>10 14 53 11-0223 4 LB/FT Breakaway Sign Posts And Base Posts</b> (10 14 53 11-0216)		
10 14 53 11-0224 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 11-0223)		
10 14 53 11-0225 EA Base Post For 4 LB/LF Breakaway Sign Post.....	70.03	22.11
10 14 53 11-0226 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	37.97	14.73
<b>10 14 53 11-0227 Breakaway Sign Posts, 4 LB/LF</b> (10 14 53 11-0223)		
10 14 53 11-0228 LF 4 LB/LF Breakaway Sign Post .....	9.18	1.85
<b>10 14 53 11-0229 Driven Sign Posts</b> (10 14 53 11-0216)		
10 14 53 11-0230 Driven Posts, 2.5 LB/LF (10 14 53 11-0229)		
10 14 53 11-0231 LF 2.5 LB/LF Driven Post.....	8.31	2.58
<b>10 14 53 11-0232 Driven Posts, 4 LB/LF</b> (10 14 53 11-0229)		
10 14 53 11-0233 LF 4 LB/LF Driven Post.....	10.28	2.95
<b>10 14 53 11-0234 Omni-Directional Breakaway System For Sign Posts And Light Poles</b> (10 14 53 11-0216)		
10 14 53 11-0235 <b>Omni-Directional Breakaway Systems For Signs</b> (10 14 53 11-0234) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0236 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	845.23	
10 14 53 11-0237 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	900.58	
10 14 53 11-0238 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo AI4 And AI6).....	617.42	
10 14 53 11-0239 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	540.78	
10 14 53 11-0240 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	613.17	
10 14 53 11-0241 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	583.36	
10 14 53 11-0242 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	632.33	
<b>10 14 53 11-0243 Omni-Directional Breakaway Systems For Poles</b> (10 14 53 11-0234) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings .....	292.66	
10 14 53 11-0245 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings .....	306.82	
10 14 53 11-0246 EA Omni-Directional Breakaway System For Poles With 1" Couplings .....	318.62	
10 14 53 11-0247 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings .....	483.83	
10 14 53 11-0248 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15" .....	42.47	
10 14 53 11-0249 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	56.65	
<b>10 14 53 11-0250 Wood Posts</b> (10 14 53 11-0216) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0251 LF 4" x 4" Pressure Treated Wood Sign Post .....	9.35	
<b>10 14 53 11-0252 Sign Post Accessories</b> (10 14 53 11-0004)		
10 14 53 11-0253 <b>Sign Post Brackets</b> (10 14 53 11-0252)		
10 14 53 11-0254 EA 2-3/8" Outside Diameter, Single Sign Bracket Set .....	23.44	5.53
10 14 53 11-0255 EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	42.14	9.21
10 14 53 11-0256 EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	36.20	7.37
<b>10 14 53 11-0257 Sign Post Caps</b> (10 14 53 11-0252)		
10 14 53 11-0258 EA Traffic Sign Post Cap .....	13.12	3.68



<b>10</b>	<b>10</b>	<b>Specialties</b>
	<b>10 10</b>	<b>Information Specialties</b>
	<b>10 14</b>	<b>Signage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>10 14 53 11-0259</b>	<b>Sign Post Replacement Bolts</b> <small>(10 14 53 11-0252)</small>		
10 14 53 11-0260	EA Signage Fasteners Replacement.....	9.31	
	Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers		
<b>10 14 53 11-0261</b>	<b>Reflective Panels For "U" Channel Post</b> <small>(10 14 53 11-0252)</small>		
10 14 53 11-0262	EA 3" x 72" Reflective Panel For "U-Channel" Post.....	45.64	
	Note: Diamond grade panel including mounting hardware.		
<b>10 14 53 11-0263</b>	<b>Removal Of Signs</b> <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0264	EA >4 To 10 SF Sign Area, Sign Removal .....	147.37	
10 14 53 11-0265	EA >10 To 20 SF Sign Area, Sign Removal .....	353.69	
10 14 53 11-0266	EA >20 To 40 SF Sign Area, Sign Removal .....	530.54	
10 14 53 11-0267	EA >40 To 100 SF Sign Area, Sign Removal .....	834.25	
<b>10 14 53 11-0268</b>	<b>Remove And Reinstall Signs</b> <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0269	EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	224.27	
10 14 53 11-0270	EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	532.83	
10 14 53 11-0271	EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign .....	797.75	
10 14 53 11-0272	EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign .....	1,253.21	
10 14 53 11-0273	EA Removal And Reinstallation Of Street Sign On Post.....	84.74	
10 14 53 11-0274	EA Removal And Relocation Of Traffic Light .....	299.67	
	Note: Excludes electrical hookup.		

## 10 80 Other Specialties (10)

### 10 81 Pest Control Devices (10 80)

#### 10 81 13 Bird Control Devices (10 81)

<b>10 81 13 00-0001</b>	<b>Stainless Steel Spiked Bird Barrier</b> <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002	LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System .....	6.56	0.80
10 81 13 00-0003	LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System .....	7.92	0.80
10 81 13 00-0004	LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	11.54	0.80
<b>10 81 13 00-0005</b>	<b>Polycarbonate Spiked Bird Barrier</b> <small>(10 81 13)</small>		
	Note: Polycarbonate spikes and base.		
10 81 13 00-0006	LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System .....	6.09	0.80
10 81 13 00-0007	LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System .....	7.38	0.80
10 81 13 00-0008	LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System .....	8.82	0.80
<b>10 81 13 00-0009</b>	<b>Spiked Gutter Or Girder Bird Barrier</b> <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010	LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application.....	6.82	0.80
<b>10 81 13 00-0011</b>	<b>Coil Bird Barrier</b> <small>(10 81 13)</small>		
	Note: Stainless steel coil.		
10 81 13 00-0012	LF 4" Diameter Stainless Steel Coil Bird Deterrent System .....	5.01	0.80
10 81 13 00-0013	LF 5" Diameter Stainless Steel Coil Bird Deterrent System .....	5.84	0.80
<b>10 81 13 00-0014</b>	<b>Spider Bird Barrier</b> <small>(10 81 13)</small>		
	Note: Stainless steel arms with various bases.		
10 81 13 00-0015	EA 2' Diameter Stainless Steel Spider Bird Deterrent System.....	93.21	0.80
10 81 13 00-0016	EA 4' Diameter Stainless Steel Spider Bird Deterrent System .....	135.08	0.80
10 81 13 00-0017	EA 8' Diameter Stainless Steel Spider Bird Deterrent System.....	168.38	0.80
<b>10 81 13 00-0018</b>	<b>Oriented Flexible Flame-resistant Netting</b> <small>(10 81 13)</small>		
	Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019	SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting.....	0.71	0.29
	Note: To control bird and marine predators.		
10 81 13 00-0020	SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting.....	0.70	0.29
	Note: To control bird and marine predators.		
10 81 13 00-0021	SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting.....	0.68	0.29
	Note: To control bird and marine predators.		
10 81 13 00-0022	SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting.....	0.67	0.29
	Note: To control bird and marine predators.		
10 81 13 00-0023	SF 1" x 1" Mesh Flexible Polypropylene Netting.....	0.67	0.29
	Note: To control bird and marine predators.		





<b>Specialties</b>	<b>10</b>	<b>10</b>
Other Specialties	10 80	
Pest Control Devices	10 81	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 81 13 00-0024	SF		1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.66	0.29
10 81 13 00-0025	SF		2" x 2" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.65	0.29
10 81 13 00-0026	SF		3" x 3" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.65	0.29
10 81 13 00-0027	SF		4" x 4" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.64	0.29
10 81 13 00-0028	SF		5/8" x 3/4" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.68	0.29
10 81 13 00-0029	SF		1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting ..... Note: To control bird and marine predators.	0.66	0.29
10 81 13 00-0030	EA		Poly Clips For Flexible Netting .....	2.36	
<b>10 81 13 00-0031      Netting Accessories <small>(10 81 13)</small></b>					
10 81 13 00-0032	EA		2' Zipper For Flexible Netting .....	5.23	
10 81 13 00-0033	EA		4' Zipper For Flexible Netting .....	7.88	
10 81 13 00-0034	EA		6' Zipper For Flexible Netting .....	9.27	
10 81 13 00-0035	EA		8' Zipper For Flexible Netting .....	13.18	
<b>10 81 16      Insect Control Devices <small>(10 81)</small></b>					
<b>10 81 16 00-0001      Insect Screening <small>(10 81 16)</small></b>					
10 81 16 00-0002	CSF		17/14 Mesh Insect Screening With Flat Screen Splines .....	84.73	

**END OF SECTION 10**

10	<b>10</b>	<b>Specialties</b>
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>Equipment</b>	<b>11</b>	
Entertainment and Recreation Equipment	11 60	11
Play Field Equipment And Structures	11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 11 Equipment

### 11 60 Entertainment and Recreation Equipment <sup>(11)</sup>

#### 11 68 Play Field Equipment And Structures <sup>(11 60)</sup>

##### 11 68 13 Playground Equipment <sup>(11 68)</sup>

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

<p><b>11 68 13 00-0001</b> Standalone Playground Equipment <sup>(11 68 13)</sup></p> <p><b>11 68 13 00-0002</b> Ground Socket For Movable Posts <sup>(11 68 13 00-0001)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0003 PR Ground Socket For 2-3/8" Post For Playground Equipment.....</p> <p style="padding-left: 20px;">11 68 13 00-0004 PR Ground Socket For 3-1/2" Post For Playground Equipment.....</p> <p><b>11 68 13 00-0005</b> See-Saws <sup>(11 68 13 00-0001)</sup></p> <p><b>11 68 13 00-0006</b> Steel See-Saw <sup>(11 68 13 00-0005)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0007 EA 2 Unit Steel See-Saw.....</p> <p style="padding-left: 20px;">11 68 13 00-0008 EA 4 Unit Steel See-Saw.....</p> <p style="padding-left: 20px;">11 68 13 00-0009 EA 6 Unit Steel See-Saw.....</p> <p><b>11 68 13 00-0010</b> 14' Long Laminated Beam <sup>(11 68 13 00-0005)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0011 EA Beam Is Supported By Two 12 In x 12 In Stepping Column Posts.....</p> <p style="padding-left: 20px;">11 68 13 00-0012 EA Beam Is Supported By Two 8 In x 8 In Posts.....</p> <p><b>11 68 13 00-0013</b> Slides <sup>(11 68 13 00-0001)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0014 EA 8' Long x 4' High Slide With Stainless Steel Bed.....</p> <p style="padding-left: 20px;">11 68 13 00-0015 EA 12' Long x 6' High Slide With Stainless Steel Bed.....</p> <p style="padding-left: 20px;">11 68 13 00-0016 EA 16' Long x 8' High Slide With Stainless Steel Bed.....</p> <p style="padding-left: 20px;">11 68 13 00-0017 EA 20' Long x 10' High Slide With Stainless Steel Bed.....</p> <p style="padding-left: 20px;">11 68 13 00-0018 EA 6' High, 360 Degree One Piece Molded Polyethylene Slide.....</p> <p style="padding-left: 20px;">11 68 13 00-0019 EA 7' High, 360 Degree Slide, Stainless Steel Bed.....</p> <p style="padding-left: 20px;">11 68 13 00-0020 EA 9' High, 360 Degree Slide, Stainless Steel Bed.....</p> <p><b>11 68 13 00-0021</b> Whirlers <sup>(11 68 13 00-0001)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0022 EA 8' Diameter Whirler.....</p> <p style="padding-left: 20px;">11 68 13 00-0023 EA 10' Diameter Whirler.....</p> <p><b>11 68 13 00-0024</b> Other Standalone Playground Equipment <sup>(11 68 13 00-0001)</sup></p> <p><b>11 68 13 00-0025</b> Miscellaneous Standalone Playground Equipment <sup>(11 68 13 00-0024)</sup></p> <p style="padding-left: 20px;">11 68 13 00-0026 EA Horizontal Ladder.....</p> <p style="padding-left: 20px;">11 68 13 00-0027 EA Tether Ball Post.....</p> <p style="padding-left: 20px;">11 68 13 00-0028 PR 10'-6" Long Multiple Purpose Post.....</p> <p style="padding-left: 20px;">11 68 13 00-0029 EA 3-Person Fiberglass Golf Tee Shelter Turntable.....</p> <p style="padding-left: 20px;">11 68 13 00-0030 EA Horizontal Turning Bars, 1 Bar.....</p> <p style="padding-left: 20px;">11 68 13 00-0031 EA Horizontal Turning Bars, 2 Bars.....</p> <p style="padding-left: 20px;">11 68 13 00-0032 EA Horizontal Turning Bars, 3 Bars.....</p> <p style="padding-left: 20px;">11 68 13 00-0033 EA Horizontal Turning Bars, 5 Bars.....</p> <p style="padding-left: 20px;">11 68 13 00-0034 EA Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole.....</p> <p style="padding-left: 20px;">11 68 13 00-0035 EA Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole.....</p> <p style="padding-left: 20px;">11 68 13 00-0036 EA Coil Spring With Single Riding Aluminum Saddle Devices.....</p> <p style="padding-left: 20px;">11 68 13 00-0037 EA "C" Spring With Single Riding Aluminum Saddle Devices.....</p> <p style="padding-left: 20px;">11 68 13 00-0038 EA Rubber Spring With Single Riding Aluminum Saddle Devices.....</p> <p style="padding-left: 20px;">11 68 13 00-0039 EA Coil Spring Assembly Only.....</p> <p style="padding-left: 20px;">11 68 13 00-0040 EA "C" Spring Assembly Only.....</p> <p style="padding-left: 20px;">11 68 13 00-0041 EA Rubber Spring Assembly Only.....</p> <p style="padding-left: 20px;">11 68 13 00-0042 EA Footbuck Assembly Only.....</p> <p style="padding-left: 20px;">11 68 13 00-0043 EA Two Seat, Two Spring Action Cars (4'-8" x 2'-8").....</p> <p><b>11 68 13 00-0044</b> Freestanding Panels <sup>(11 68 13 00-0024)</sup></p> <p style="padding-left: 20px;">Note: Rotomolded polyethylene.</p> <p style="padding-left: 20px;">11 68 13 00-0045 EA Tic-Tac-Toe Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0046 EA 24" Bubble Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0047 EA Fire Engine Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0048 EA Flat Mirror Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0049 EA Wavy Mirror Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0050 EA Paint Time Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0051 EA Phone Time Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0052 EA Phone Time With Graphic Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0053 EA Race Time Panel.....</p> <p style="padding-left: 20px;">11 68 13 00-0054 EA Rescue 911 Panel.....</p>	<p>205.74</p> <p>296.35</p> <p>1,650.40</p> <p>2,574.90</p> <p>3,526.62</p> <p>1,662.55</p> <p>1,181.04</p> <p>1,853.93</p> <p>2,615.71</p> <p>2,898.65</p> <p>3,561.81</p> <p>6,520.12</p> <p>10,066.48</p> <p>12,521.13</p> <p>4,324.61</p> <p>5,041.03</p> <p>1,334.57</p> <p>233.10</p> <p>361.98</p> <p>2,636.64</p> <p>442.34</p> <p>590.12</p> <p>794.73</p> <p>1,155.13</p> <p>1,140.14</p> <p>1,254.32</p> <p>1,231.96</p> <p>1,372.27</p> <p>1,692.21</p> <p>321.98</p> <p>213.99</p> <p>208.90</p> <p>55.66</p> <p>1,394.98</p> <p>594.14</p> <p>890.05</p> <p>1,306.18</p> <p>1,044.96</p> <p>1,546.62</p> <p>1,003.34</p> <p>712.05</p> <p>712.05</p> <p>1,248.39</p> <p>1,266.15</p>	<p>49.92</p> <p>49.92</p> <p>307.22</p> <p>363.06</p> <p>443.75</p> <p>271.65</p> <p>241.98</p> <p>351.30</p> <p>499.22</p> <p>554.68</p> <p>614.45</p> <p>966.56</p> <p>997.10</p> <p>1,047.98</p> <p>665.62</p> <p>798.74</p> <p>177.78</p> <p>34.76</p> <p>61.46</p> <p>173.65</p> <p>92.78</p> <p>110.89</p> <p>147.85</p> <p>203.29</p> <p>84.64</p> <p>91.37</p> <p>97.95</p> <p>84.27</p> <p>110.37</p> <p>40.58</p> <p>27.06</p> <p>52.78</p> <p>7.10</p> <p>101.50</p> <p>43.47</p> <p>65.13</p> <p>95.58</p> <p>76.51</p> <p>113.25</p> <p>73.48</p> <p>52.12</p> <p>52.12</p> <p>91.37</p> <p>91.37</p>
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<b>11</b>	<b>Equipment</b>
<b>11 60</b>	<b>Entertainment and Recreation Equipment</b>
<b>11 68</b>	<b>Play Field Equipment And Structures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055 EA Eastern/Central/Western States Panel.....	681.99	49.90
11 68 13 00-0056 EA Career People Panel.....	774.46	56.70
11 68 13 00-0057 EA Solar System Panel.....	774.46	56.70
11 68 13 00-0058 EA Animals Panel.....	774.46	56.70
<b>11 68 13 00-0059 Freestanding Panels Uprights</b> <small>(11 68 13 00-0024)</small>		
11 68 13 00-0060 EA 3-1/2" Outside Diameter End Panel Upright.....	190.81	24.40
11 68 13 00-0061 EA 3-1/2" Outside Diameter 90 Degree Upright.....	206.72	26.40
11 68 13 00-0062 EA 3-1/2" Outside Diameter 180 Degree Upright.....	206.72	26.40
11 68 13 00-0063 EA 3-1/2" Outside Diameter "T-Shaped" Upright.....	219.97	28.09
<b>11 68 13 00-0064 Coasters</b> <small>(11 68 13 00-0024)</small>		
11 68 13 00-0065 EA 12' Single Metal Coaster With Four Posts.....	4,571.86	295.69
11 68 13 00-0066 EA 18' Single Metal Coaster With Four Posts.....	5,135.58	369.62
11 68 13 00-0067 EA 12' Double Metal Coaster With Four Posts.....	7,374.77	443.54
11 68 13 00-0068 EA 18' Double Metal Coaster With Four Posts.....	8,416.62	554.43
<b>11 68 13 00-0069 Climbers</b> <small>(11 68 13 00-0024)</small>		
11 68 13 00-0070 EA Tower Climber, 3.17' Diameter x 7.25' High.....	923.32	197.52
11 68 13 00-0071 EA Arch Climber, 2' x 12' x 4.5' High.....	851.69	241.88
11 68 13 00-0072 EA Arch Climber, 2' x 15' x 5.83' High.....	915.01	197.52
11 68 13 00-0073 EA Arch Climber, 2' x 17' x 6.58' High.....	974.97	241.88
11 68 13 00-0074 EA Rainbow Climber, 2' x 10'-5" x 4' High.....	1,036.07	197.30
11 68 13 00-0075 EA Rainbow Climber, 2' x 10'-5" x 5' High.....	1,147.07	197.37
11 68 13 00-0076 EA Rainbow Climber, 2' x 12'-5" x 6' High.....	1,317.09	197.37
11 68 13 00-0077 EA Rainbow Climber, 2' x 15'-4" x 7' High.....	1,428.27	197.30
11 68 13 00-0078 EA Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	1,719.14	231.02
11 68 13 00-0079 EA 12' Long Horizontal Ladder Climber.....	1,390.76	172.54
11 68 13 00-0080 EA 14' Long Horizontal Ladder Climber.....	1,409.47	172.54
11 68 13 00-0081 EA 16' Long Horizontal Ladder Climber.....	1,533.34	172.54
11 68 13 00-0082 EA Bell Climber, 7'-5" High With Double Bars.....	1,477.24	221.77
11 68 13 00-0083 EA 2-Way Climber.....	1,246.33	177.78
11 68 13 00-0084 EA 4-Way Climber.....	1,918.78	177.78
<b>11 68 13 00-0085 Swings</b> <small>(11 68 13 00-0001)</small>		
<b>11 68 13 00-0086 Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail</b> <small>(11 68 13 00-0085)</small>		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087 EA 8' High Top Rail, One Section Two Seats.....	1,212.62	271.65
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	138.64	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	147.50	
11 68 13 00-0088 EA 8' High Top Rail, Two Sections Four Seats.....	1,921.50	388.72
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	220.77	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	239.18	
11 68 13 00-0089 EA 8' High Top Rail, Three Sections, Six Seats.....	2,663.02	571.99
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	305.63	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	329.79	
11 68 13 00-0090 EA 8' High Top Rail, Four Sections, Eight Seats.....	3,327.72	665.62
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	382.68	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	415.91	
11 68 13 00-0091 EA 10' High Top Rail, One Section Two Seats.....	1,284.28	271.65
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	147.59	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	160.04	
11 68 13 00-0092 EA 10' High Top Rail, Two Section Four Seats.....	2,018.83	414.01
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	231.09	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	246.96	
11 68 13 00-0093 EA 10' High Top Rail, Three Sections, Six Seats.....	2,801.53	642.92
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	319.57	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	337.14	
11 68 13 00-0094 EA 10' High Top Rail, Four Sections, Eight Seats.....	3,692.49	776.56
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	422.72	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	451.97	
<b>11 68 13 00-0095 Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail</b> <small>(11 68 13 00-0085)</small>		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096 EA 8' High Top Rail, One Section, Two Seats.....	1,358.04	239.92
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	157.76	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	177.67	
11 68 13 00-0097 EA 8' High Top Rail, Two Sections, Four Seats.....	1,971.00	348.12
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	228.97	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	257.90	
11 68 13 00-0098 EA 8' High Top Rail, Three Sections, Six Seats.....	2,630.19	465.57
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	305.50	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	343.89	
11 68 13 00-0099 EA 8' High Top Rail, Four Sections, Eight Seats.....	3,272.04	554.68
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	381.27	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	433.92	



<b>Equipment</b>	<b>11</b>
<b>Entertainment and Recreation Equipment</b>	<b>11 60</b>
<b>Play Field Equipment And Structures</b>	<b>11 68</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100 EA 10' High Top Rail, One Section, Two Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,531.37 177.90 200.40	270.39
11 68 13 00-0101 EA 10' High Top Rail, One Section Three Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,594.54 185.66 210.75	286.73
11 68 13 00-0102 EA 10' High Top Rail, Two Sections, Four Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,138.45 248.38 279.59	378.52
11 68 13 00-0103 EA 10' High Top Rail, Two Sections, Six Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,551.33 298.13 342.54	436.35
11 68 13 00-0104 EA 10' High Top Rail, Three Section, Six Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,846.38 330.62 372.22	503.58
11 68 13 00-0105 EA 10' High Top Rail, Three Sections, Nine Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,505.90 410.50 474.84	554.90
11 68 13 00-0106 EA 10' High Top Rail, Four Section, Eight Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,624.77 419.81 467.89	665.62
11 68 13 00-0107 EA 12' High Top Rail, One Section Three Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,664.57 194.08 221.34	293.69
11 68 13 00-0108 EA 12' High Top Rail, Two Sections, Six Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,705.14 315.63 360.86	472.52
11 68 13 00-0109 EA 12' High Top Rail, Three Sections, Nine Seats ..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,985.49 461.21 512.57	756.81
<b>11 68 13 00-0110 Swing Accessories</b> <small>(11 68 13 00-0085)</small>		
11 68 13 00-0111 EA Enclosed Tot Seat With Chain And Hardware .....	372.25	22.30
11 68 13 00-0112 EA Bucket Seat With Chain And Hardware .....	309.46	18.55
11 68 13 00-0113 EA Belt Seat With Chain And Hardware .....	329.64	19.80
11 68 13 00-0114 EA Seat With Chain And Hardware .....	325.16	19.51
11 68 13 00-0115 EA Wide Seat With Chain And Hardware .....	343.23	20.61
11 68 13 00-0116 EA Handi Seat With Chain And Hardware .....	1,024.80	61.46
11 68 13 00-0117 LF 0.4 LB/LF Replacement Chain .....	4.39	0.44
11 68 13 00-0118 LF 1 LB/LF Replacement Chain .....	8.16	0.88
11 68 13 00-0119 EA Swing Hanger Replacement .....	47.71	5.08
<b>11 68 23 Exterior Court Athletic Equipment</b> <small>(11 68)</small>		
<b>11 68 23 13 Exterior Basketball Equipment</b> <small>(11 68 23)</small>		
<b>11 68 23 13-0001 Basketball Systems</b> <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002 EA 4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616) .....	1,569.50	195.99
11 68 23 13-0003 EA 5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230) .....	2,898.02	215.58
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0004 EA 4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230) .....	2,079.66	195.99
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0005 EA 5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230) .....	2,566.93	215.58
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0006 EA Back To Back 4-1/2" Galvanized Steel Pole With 4' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00184-230) .....	3,283.42	288.22
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-498.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	700.00	
11 68 23 13-0007 EA Back To Back 5-9/16" Galvanized Steel Pole With 6' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00186-230) .....	4,266.44	317.04
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-498.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	700.00	
<b>11 68 23 13-0008 Basketball Components</b> <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0009 EA Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120) .....	27.37	7.39
11 68 23 13-0010 EA Chain Basketball Net (Porter Athletic 00161-000) .....	44.98	7.39
11 68 23 13-0011 EA Heavy Duty Goal Ring (Porter Athletic 00235-000) .....	112.67	36.96
11 68 23 13-0012 EA Goal Ring For Steel Net (Porter Athletic 00251-H00) .....	213.30	16.64
11 68 23 13-0013 EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000) .....	907.46	31.42
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0014 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300) .....	967.88	31.42
Note: Includes perimeter and target markings. Excludes pole and goal.		

<b>11</b>	<b>11 Equipment</b>
	<b>11 60 Entertainment and Recreation Equipment</b>
	<b>11 68 Play Field Equipment And Structures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 13-0015 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300).....	694.65	27.73
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0016 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000) .....	525.48	27.73
Note: Includes perimeter and target markings. Excludes pole and goal.		
<b>11 68 23 33 Tennis Equipment</b> <small>(11 68 23)</small>		
<b>11 68 23 33-0001 Tennis Court Net Posts</b> <small>(11 68 23 33)</small>		
11 68 23 33-0002 PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder .....	831.03	125.73
11 68 23 33-0003 PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder .....	1,008.66	125.73
11 68 23 33-0004 PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder .....	1,038.26	125.73
11 68 23 33-0005 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder .....	1,089.46	125.73
11 68 23 33-0006 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder.....	1,271.75	125.73
11 68 23 33-0007 PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts .....	205.64	
11 68 23 33-0008 PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts .....	227.77	
<b>11 68 23 33-0009 Tennis Court Nets</b> <small>(11 68 23 33)</small>		
11 68 23 33-0010 EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net .....	414.65	124.25
11 68 23 33-0011 EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	449.97	124.25
11 68 23 33-0012 EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net .....	938.89	191.18
11 68 23 33-0013 EA Galvanized Steel Anchor For Tennis Court Net Center Strap .....	55.41	
<b>11 68 33 Athletic Field Equipment</b> <small>(11 68)</small>		
<b>11 68 33 13 Football Field Equipment</b> <small>(11 68 33)</small>		
<b>11 68 33 13-0001 Football Goal Posts</b> <small>(11 68 33 13)</small>		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002 PR Double Steel Football Goal Posts, "H Shape".....	3,404.44	332.66
11 68 33 13-0003 PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	4,912.56	492.12
11 68 33 13-0004 PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	5,869.76	590.54
<b>11 68 33 23 Soccer And Field Hockey Equipment</b> <small>(11 68 33)</small>		
<b>11 68 33 23-0001 Soccer Goal Posts</b> <small>(11 68 33 23)</small>		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002 PR Regulation Soccer Goal Posts .....	3,105.32	221.88
11 68 33 23-0003 PR Combination Football/Soccer Goal Post .....	3,752.02	332.66
<b>11 68 33 33 Baseball Field Equipment</b> <small>(11 68 33)</small>		
<b>11 68 33 33-0001 Bases</b> <small>(11 68 33 33)</small>		
11 68 33 33-0002 SET Bases For Baseball Or Softball .....	350.85	
<b>11 80 Facility Maintenance and Operation Equipment</b> <small>(11)</small>		
<b>11 82 Facility Solid Waste Handling Equipment</b> <small>(11 80)</small>		
<b>11 82 19 Packaged Incinerators</b> <small>(11 82)</small>		
<b>11 82 19 00-0001 Electric Incinerator</b> <small>(11 82 19)</small>		
11 82 19 00-0002 EA Electric Package Incinerator, 100 LB/Hour .....	24,694.08	891.51
11 82 19 00-0003 EA Electric Package Incinerator, 400 LB/Hour .....	50,505.64	1,783.02
11 82 19 00-0004 EA Electric Package Incinerator, 1,000 LB/Hour .....	168,999.23	2,674.53
<b>11 82 26 Facility Waste Compactors</b> <small>(11 82)</small>		
<b>11 82 26 00-0001 110 Volt Compactors</b> <small>(11 82 26)</small>		
11 82 26 00-0002 EA Waste Compactor, 110 Volt At 75 LB/Hour.....	13,440.52	459.08
11 82 26 00-0003 EA Waste Compactor, 110 Volt At 250 LB/Hour.....	17,091.84	1,101.79
<b>11 82 26 00-0004 230 Volt Compactors</b> <small>(11 82 26)</small>		
11 82 26 00-0005 EA Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed .....	17,236.52	1,469.06
11 82 26 00-0006 EA Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed .....	19,569.47	1,928.14
<b>11 82 26 00-0007 Trash Compactors</b> <small>(11 82 26)</small>		
11 82 26 00-0008 EA Trash Compactor, Small .....	3,059.96	261.70
11 82 26 00-0009 EA Trash Compactor, Large .....	3,767.22	296.15





	<b>Equipment</b>	<b>11</b>	
	Facility Maintenance and Operation Equipment	11 80	11
	Facility Solid Waste Handling Equipment	11 82	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**END OF SECTION 11**

11	<b>11</b>	<b>Equipment</b>
	11 80	Facility Maintenance and Operation Equipment
	11 82	Facility Solid Waste Handling Equipment




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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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<b>Special Construction</b>	<b>13</b>
<b>Integrated Construction</b>	<b>13 40</b>
<b>Facility Protection</b>	<b>13 47</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 13 Special Construction

#### 13 40 Integrated Construction <sup>(13)</sup>

#### 13 47 Facility Protection <sup>(13 40)</sup>

#### 13 47 13 Cathodic Protection <sup>(13 47)</sup>

#### 13 47 13 13 Cathodic Protection for Underground and Submerged Piping <sup>(13 47 13)</sup>

13 47 13 13-0001	EA	Anodes <sup>(13 47 13 13)</sup>		
13 47 13 13-0002	EA	Magnesium Type, Conventional <sup>(13 47 13 13-0001)</sup>		
13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	318.01	140.23
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	471.03	202.67
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	640.84	260.74
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	911.60	364.81
13 47 13 13-0007	EA	Graphite Type <sup>(13 47 13 13-0001)</sup> Note: Includes epoxy cap.		
13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap.....	492.58	206.29
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap.....	761.11	288.06
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap.....	565.51	180.28
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap.....	859.59	240.67
13 47 13 13-0012	EA	High Silicon Cast Iron Type <sup>(13 47 13 13-0001)</sup>		
13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB.....	1,392.18	288.06
13 47 13 13-0014	EA	Metal Oxide Type <sup>(13 47 13 13-0001)</sup>		
13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB..... Note: Includes center connected #8 HMWPE/HALAR Lead wire.	690.62	140.23
13 47 13 13-0016	EA	Rectifiers <sup>(13 47 13 13)</sup>		
13 47 13 13-0017	EA	Air Cooled, Silicon Type <sup>(13 47 13 13-0016)</sup>		
13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	1,468.60	292.99
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	1,578.76	292.99
13 47 13 13-0020	EA	Oil Immersed, Silicon Type <sup>(13 47 13 13-0016)</sup>		
13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	2,171.96	338.78
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	2,289.99	338.78
13 47 13 13-0023	EA	Anode Backfill <sup>(13 47 13 13)</sup>		
13 47 13 13-0024	LB	Anode Backfill, Coke Breeze.....	0.97	0.37
13 47 13 13-0025	MLF	Cathodic Protection Cable <sup>(13 47 13 13)</sup>		
13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8.....	1,783.13	721.10
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6.....	1,934.10	721.10
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4.....	2,160.56	721.10
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2.....	2,538.00	721.10
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1.....	3,095.95	794.50
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0.....	3,379.03	794.50
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0.....	3,850.82	794.50
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0.....	5,125.61	866.05
13 47 13 13-0034	EA	Cathodic Test Stations <sup>(13 47 13 13)</sup>		
13 47 13 13-0035	EA	Flush Curb Box Type With Lockable Cover And Terminal Box <sup>(13 47 13 13-0034)</sup>		
13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover.....	249.06	84.44
13 47 13 16	EA	<b>Cathodic Protection For Underground Storage Tanks</b> <sup>(13 47 13)</sup> See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		

**END OF SECTION 13**

13	<b>13 Special Construction</b>
	13 40 Integrated Construction
	13 47 Facility Protection



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

### 22 05 Common Work Results for Plumbing <sup>(22)</sup>

#### 22 05 23 General-Duty Valves For Plumbing Piping <sup>(22 05)</sup>

##### 22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve <sup>(22 05 23)</sup>

##### 22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0003	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve .....	154.66	11.03
22 05 23 00-0004	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve .....	175.05	12.54

##### 22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0006	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve .....	204.41	13.34
22 05 23 00-0007	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve .....	275.82	15.44

##### 22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0009	EA	3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	191.34	11.03
22 05 23 00-0010	EA	1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	200.52	12.54
22 05 23 00-0011	EA	1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	224.78	13.34
22 05 23 00-0012	EA	1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	306.38	15.44
22 05 23 00-0013	EA	2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	702.46	18.25
22 05 23 00-0014	EA	2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	835.87	24.57
22 05 23 00-0015	EA	3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	1,084.47	28.63
22 05 23 00-0016	EA	4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	1,256.84	32.32

##### 22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0018	EA	2" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	982.19	133.69
22 05 23 00-0019	EA	3" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	1,210.20	157.00
22 05 23 00-0020	EA	4" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	1,705.21	263.20
22 05 23 00-0021	EA	6" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	2,787.39	313.44
22 05 23 00-0022	EA	8" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	7,527.24	400.51

##### 22 05 23 00-0023 Regulators, Clay Valve <sup>(22 05 23)</sup>

22 05 23 00-0024	EA	4" Regulator - Clay Valve .....	1,669.22	
22 05 23 00-0025	EA	8" Regulator - Clay Valve .....	2,267.41	
22 05 23 00-0026	EA	10" Regulator - Clay Valve .....	3,113.18	
22 05 23 00-0027	EA	12" Regulator - Clay Valve .....	3,804.52	
22 05 23 00-0028	EA	18" Regulator - Clay Valve .....	6,509.29	
22 05 23 00-0029	EA	24" Regulator - Clay Valve .....	10,495.69	

### 22 05 76 Facility Drainage Piping Cleanouts <sup>(22 05)</sup>

#### 22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover <sup>(22 05 76)</sup>

Note: For floor installation.

#### 22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover <sup>(22 05 76 00-0001)</sup>

22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	535.64	53.35
		<i>For Vandal Proof, Add</i>	<i>19.50</i>	
		<i>For Galvanized Ferrule, Add</i>	<i>45.00</i>	
		<i>For Carpet Marker, Add</i>	<i>16.00</i>	
		<i>For Carpet Flange, Add</i>	<i>58.50</i>	
		<i>For Wide Flange, Add</i>	<i>97.00</i>	
		<i>For Satin Bronze Top, Deduct</i>	<i>-24.00</i>	
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	580.49	66.90
		<i>For Vandal Proof, Add</i>	<i>19.50</i>	
		<i>For Galvanized Ferrule, Add</i>	<i>45.00</i>	
		<i>For Carpet Marker, Add</i>	<i>16.00</i>	
		<i>For Carpet Flange, Add</i>	<i>58.50</i>	
		<i>For Wide Flange, Add</i>	<i>97.00</i>	
		<i>For Satin Bronze Top, Deduct</i>	<i>-24.00</i>	
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	724.36	80.83
		<i>For Vandal Proof, Add</i>	<i>19.50</i>	
		<i>For Galvanized Ferrule, Add</i>	<i>45.00</i>	
		<i>For Carpet Marker, Add</i>	<i>16.00</i>	
		<i>For Carpet Flange, Add</i>	<i>58.50</i>	
		<i>For Wide Flange, Add</i>	<i>97.00</i>	
		<i>For Satin Bronze Top, Deduct</i>	<i>-24.00</i>	

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	1,034.93	90.46
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	1,271.46	97.99
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
<b>22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)</b>		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	615.83	53.35
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	661.88	66.80
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	805.82	80.83
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	1,116.44	90.46
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover .....	1,352.89	97.99
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
<b>22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)</b>		
Note: Cover and screw only.		
<b>22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed .....	81.80	16.75
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed .....	88.49	20.06
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed .....	112.59	22.56
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed .....	188.88	25.08
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed .....	283.00	27.58
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
<b>22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover .....	419.58	16.75
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover .....	603.60	17.56
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	644.94 19.50 22.50	18.55
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	721.46 19.50 22.50	21.07
<b>22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top</b> <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	419.04 19.50 22.50	16.75
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	602.81 19.50 22.50	17.56
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	644.09 19.50 22.50	18.55
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	720.52 19.50 22.50	21.07
<b>22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated</b> <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	406.55 19.50 22.50	16.75
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	561.75 19.50 22.50	17.56
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	795.84 19.50 22.50	18.55
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	963.31 19.50 22.50	21.07
<b>22 05 76 00-0036 Cast Iron Cleanout Tee</b> <small>(22 05 76)</small>		
<b>22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover</b> <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	391.43 19.50 88.80	53.35
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	448.07 19.50 88.80	66.80
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	584.14 19.50 88.80	80.83
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,382.06 19.50 88.80	97.99
<b>22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover</b> <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	676.16 19.50 88.80	53.35
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	732.81 19.50 88.80	66.80
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	849.98 19.50 88.80	80.83
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,766.65 19.50 88.80	97.99
<b>22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug</b> <small>(22 05 76 00-0036)</small>		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug .....	320.75	43.63
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug .....	358.46	47.64
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug .....	477.63	62.68
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug .....	715.28	74.22
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug .....	1,214.73	87.76
<b>22 05 76 00-0053 Removable Cleanout Plug</b> <small>(22 05 76)</small>		

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 05 76 00-0054 Threaded Bronze Plugs</b> (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug .....60.70		12.54
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug .....72.40		13.64
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug .....122.19		15.04
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug .....136.91		17.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug .....154.85		20.06
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug .....216.40		22.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug .....316.68		25.08
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug .....531.56		27.58
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug .....762.66		30.08
For Plug Tapped For Center Screw, Add	9.50	
<b>22 05 76 00-0064 Threaded Brass Plugs</b> (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head .....28.51		12.54
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head .....29.10		12.54
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head .....31.80		13.63
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head .....36.09		15.04
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head .....42.73		17.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head .....50.45		20.06
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head .....54.28		21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head .....58.50		22.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head .....77.99		25.07
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head .....28.04		12.54
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head .....28.70		12.54
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head .....33.09		13.63
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head .....36.28		15.04
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head .....42.17		17.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head .....49.57		20.06
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head .....58.02		22.56
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head .....70.22		25.08
For Plug Tapped For Center Screw, Add	9.50	
<b>22 07 Plumbing Insulation</b> (22)		
<b>22 07 19 Plumbing Piping Insulation</b> (22 07)		
<b>22 07 19 00-0001 Insulation Protective Jacketing</b> (22 07 19)		
Note: Jacketing only and must be added to insulation prices.		
<b>22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands</b> (22 07 19 00-0001)		
<b>22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands</b> (22 07 19 00-0002)		
22 07 19 00-0004 SF 0.006" Aluminum Insulation Jacket With Bands .....14.80		6.38
22 07 19 00-0005 SF 0.016" Aluminum Insulation Jacket With Bands .....15.19		6.38
<b>22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> (22 07 19 00-0002)		
22 07 19 00-0007 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing .....7.54		1.81
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0008 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing .....7.80		1.85
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0009 LF 1" ID, 0.016" Aluminum Insulation Jacketing .....8.06		1.90
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.34 0.01 0.01	1.94
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.54 0.01 0.02	1.97
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.75 0.01 0.02	2.00
22 07 19 00-0013 LF 2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.00 0.01 0.02	2.04
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.27 0.01 0.02	2.08
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.55 0.01 0.03	2.13
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.78 0.01 0.03	2.16
22 07 19 00-0017 LF 3" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.07 0.01 0.03	2.21
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.36 0.01 0.03	2.26
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.66 0.01 0.04	2.31
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.91 0.01 0.04	2.35
22 07 19 00-0021 LF 4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.23 0.02 0.04	2.41
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.56 0.02 0.04	2.47
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.92 0.02 0.04	2.53
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.21 0.02 0.05	2.58
22 07 19 00-0025 LF 5" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.57 0.02 0.05	2.65
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.95 0.02 0.05	2.73
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.27 0.02 0.05	2.79
22 07 19 00-0028 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.69 0.02 0.06	2.87
22 07 19 00-0029 LF 6" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.11 0.02 0.06	2.95
22 07 19 00-0030 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.39 0.02 0.06	3.00
22 07 19 00-0031 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.66 0.03 0.06	3.04
22 07 19 00-0032 LF 7" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.10 0.03 0.07	3.11
22 07 19 00-0033 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.49 0.03 0.07	3.19
22 07 19 00-0034 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.79 0.03 0.07	3.24
22 07 19 00-0035 LF 8" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.19 0.03 0.08	3.30
22 07 19 00-0036 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.58 0.03 0.08	3.35
22 07 19 00-0037 LF 9" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.11 0.03 0.08	3.43

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0038 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	17.54	3.49
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0039 LF 10" ID, 0.016" Aluminum Insulation Jacketing.....	17.97	3.56
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0040 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	18.41	3.62
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0041 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	18.99	3.72
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0042 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	19.46	3.79
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0043 LF 12" ID, 0.016" Aluminum Insulation Jacketing.....	19.95	3.86
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0044 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	20.59	3.98
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0045 LF 13" ID, 0.016" Aluminum Insulation Jacketing.....	20.93	4.02
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0046 LF 14" ID, 0.016" Aluminum Insulation Jacketing.....	21.46	4.06
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0047 LF 15" ID, 0.016" Aluminum Insulation Jacketing.....	22.15	4.14
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0048 LF 16" ID, 0.016" Aluminum Insulation Jacketing.....	22.69	4.19
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0049 LF 17" ID, 0.016" Aluminum Insulation Jacketing.....	23.41	4.28
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0050 LF 18" ID, 0.016" Aluminum Insulation Jacketing.....	23.86	4.32
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.16	
22 07 19 00-0051 LF 19" ID, 0.016" Aluminum Insulation Jacketing.....	24.72	4.42
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0052 LF 20" ID, 0.016" Aluminum Insulation Jacketing.....	25.29	4.47
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0053 LF 21" ID, 0.016" Aluminum Insulation Jacketing.....	26.06	4.58
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0054 LF 22" ID, 0.016" Aluminum Insulation Jacketing.....	26.63	4.63
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0055 LF 23" ID, 0.016" Aluminum Insulation Jacketing.....	27.43	4.74
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0056 LF 24" ID, 0.016" Aluminum Insulation Jacketing.....	28.02	4.80
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
<b>22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)</b>		
22 07 19 00-0058 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing.....	8.34	1.99
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0059 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing.....	8.64	2.04
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0060 LF 1" ID, 0.020" Aluminum Insulation Jacketing.....	8.96	2.08
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0061 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.28	2.13
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0062 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	9.52	2.17
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0063 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.76	2.20
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0064 LF 2" ID, 0.020" Aluminum Insulation Jacketing.....	10.05	2.24
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0065 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	10.35	2.29
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0066 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.68 0.01 0.03	2.34
22 07 19 00-0067 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.94 0.01 0.04	2.38
22 07 19 00-0068 LF 3" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.28 0.02 0.04	2.43
22 07 19 00-0069 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.61 0.02 0.04	2.48
22 07 19 00-0070 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.97 0.02 0.04	2.54
22 07 19 00-0071 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.26 0.02 0.05	2.59
22 07 19 00-0072 LF 4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.62 0.02 0.05	2.65
22 07 19 00-0073 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.00 0.02 0.05	2.73
22 07 19 00-0074 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.41 0.02 0.06	2.79
22 07 19 00-0075 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.73 0.02 0.06	2.85
22 07 19 00-0076 LF 5" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.15 0.02 0.06	2.92
22 07 19 00-0077 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.59 0.03 0.06	3.00
22 07 19 00-0078 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.95 0.03 0.07	3.07
22 07 19 00-0079 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.43 0.03 0.07	3.15
22 07 19 00-0080 LF 6" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.92 0.03 0.07	3.25
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.23 0.03 0.08	3.30
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.54 0.03 0.08	3.35
22 07 19 00-0083 LF 7" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.07 0.03 0.08	3.42
22 07 19 00-0084 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.52 0.04 0.09	3.50
22 07 19 00-0085 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.85 0.04 0.09	3.56
22 07 19 00-0086 LF 8" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.33 0.04 0.10	3.62
22 07 19 00-0087 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.79 0.04 0.10	3.68
22 07 19 00-0088 LF 9" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.39 0.04 0.11	3.77
22 07 19 00-0089 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.90 0.05 0.11	3.84
22 07 19 00-0090 LF 10" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.41 0.05 0.12	3.91
22 07 19 00-0091 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.92 0.05 0.12	3.98
22 07 19 00-0092 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.59 0.05 0.13	4.09
22 07 19 00-0093 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.14 0.05 0.14	4.17

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0094	LF	12" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.70 0.06 0.14	4.25
22 07 19 00-0095	LF	12-1/2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.43 0.06 0.15	4.38
22 07 19 00-0096	LF	13" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.84 0.06 0.15	4.42
22 07 19 00-0097	LF	14" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.49 0.07 0.17	4.46
22 07 19 00-0098	LF	15" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.32 0.07 0.18	4.57
22 07 19 00-0099	LF	16" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.98 0.08 0.19	4.61
22 07 19 00-0100	LF	17" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.82 0.08 0.20	4.71
22 07 19 00-0101	LF	18" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.34 0.08 0.21	4.76
22 07 19 00-0102	LF	19" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.38 0.09 0.22	4.87
22 07 19 00-0103	LF	20" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.07 0.09 0.23	4.92
22 07 19 00-0104	LF	21" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.98 0.10 0.25	5.04
22 07 19 00-0105	LF	22" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.66 0.10 0.26	5.09
22 07 19 00-0106	LF	23" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.61 0.11 0.27	5.22
22 07 19 00-0107	LF	24" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.33 0.11 0.28	5.28
<b>22 07 19 00-0108</b>		<b>24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> <small>(22 07 19 00-0002)</small>		
22 07 19 00-0109	LF	1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.15 0.00 0.01	2.17
22 07 19 00-0110	LF	3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.49 0.01 0.02	2.22
22 07 19 00-0111	LF	1" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.83 0.01 0.02	2.27
22 07 19 00-0112	LF	1-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.19 0.01 0.02	2.33
22 07 19 00-0113	LF	1-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.46 0.01 0.03	2.36
22 07 19 00-0114	LF	1-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.74 0.01 0.03	2.40
22 07 19 00-0115	LF	2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.08 0.01 0.03	2.45
22 07 19 00-0116	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.42 0.01 0.04	2.50
22 07 19 00-0117	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.79 0.02 0.04	2.55
22 07 19 00-0118	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.09 0.02 0.04	2.59
22 07 19 00-0119	LF	3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.47 0.02 0.05	2.65
22 07 19 00-0120	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.85 0.02 0.05	2.72
22 07 19 00-0121	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.24 0.02 0.05	2.78





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0122 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.57 0.02 0.06	2.83
22 07 19 00-0123 LF 4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.98 0.02 0.06	2.90
22 07 19 00-0124 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.42 0.03 0.06	2.97
22 07 19 00-0125 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.87 0.03 0.07	3.05
22 07 19 00-0126 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.23 0.03 0.07	3.11
22 07 19 00-0127 LF 5" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.70 0.03 0.07	3.19
22 07 19 00-0128 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.19 0.03 0.08	3.27
22 07 19 00-0129 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.59 0.03 0.08	3.34
22 07 19 00-0130 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.14 0.03 0.08	3.44
22 07 19 00-0131 LF 6" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.68 0.04 0.09	3.54
22 07 19 00-0132 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.03 0.04 0.09	3.59
22 07 19 00-0133 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.38 0.04 0.09	3.65
22 07 19 00-0134 LF 7" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.98 0.04 0.10	3.73
22 07 19 00-0135 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.48 0.04 0.10	3.82
22 07 19 00-0136 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.86 0.04 0.11	3.88
22 07 19 00-0137 LF 8" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.40 0.05 0.11	3.95
22 07 19 00-0138 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.93 0.05 0.12	4.01
22 07 19 00-0139 LF 9" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.61 0.05 0.13	4.12
22 07 19 00-0140 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.19 0.05 0.14	4.19
22 07 19 00-0141 LF 10" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.76 0.06 0.14	4.26
22 07 19 00-0142 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.35 0.06 0.15	4.34
22 07 19 00-0143 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.10 0.06 0.16	4.46
22 07 19 00-0144 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.73 0.07 0.16	4.56
22 07 19 00-0145 LF 12" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.36 0.07 0.17	4.64
22 07 19 00-0146 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.20 0.07 0.18	4.78
22 07 19 00-0147 LF 13" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.66 0.07 0.18	4.83
22 07 19 00-0148 LF 14" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.42 0.08 0.20	4.88
22 07 19 00-0149 LF 15" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.37 0.08 0.21	4.98

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0150	LF	16" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.14 0.09 0.23	5.03
22 07 19 00-0151	LF	17" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.11 0.10 0.24	5.14
22 07 19 00-0152	LF	18" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.71 0.10 0.25	5.19
22 07 19 00-0153	LF	19" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.91 0.11 0.27	5.31
22 07 19 00-0154	LF	20" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.71 0.11 0.28	5.37
22 07 19 00-0155	LF	21" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.75 0.12 0.29	5.49
22 07 19 00-0156	LF	22" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.54 0.12 0.31	5.56
22 07 19 00-0157	LF	23" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.64 0.13 0.32	5.69
22 07 19 00-0158	LF	24" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.46 0.13 0.34	5.75
<b>22 07 19 00-0159</b>		<b>32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> (22 07 19 00-0002)		
22 07 19 00-0160	LF	1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.25 0.01 0.02	2.40
22 07 19 00-0161	LF	3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.65 0.01 0.02	2.46
22 07 19 00-0162	LF	1" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.07 0.01 0.02	2.52
22 07 19 00-0163	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.50 0.01 0.03	2.58
22 07 19 00-0164	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.84 0.01 0.03	2.62
22 07 19 00-0165	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.18 0.02 0.04	2.66
22 07 19 00-0166	LF	2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.57 0.02 0.04	2.72
22 07 19 00-0167	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.99 0.02 0.05	2.78
22 07 19 00-0168	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.42 0.02 0.05	2.84
22 07 19 00-0169	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.79 0.02 0.06	2.88
22 07 19 00-0170	LF	3" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.25 0.02 0.06	2.95
22 07 19 00-0171	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.71 0.03 0.07	3.01
22 07 19 00-0172	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.17 0.03 0.07	3.08
22 07 19 00-0173	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.57 0.03 0.08	3.14
22 07 19 00-0174	LF	4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.06 0.03 0.08	3.21
22 07 19 00-0175	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.55 0.03 0.09	3.29
22 07 19 00-0176	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.10 0.04 0.09	3.37
22 07 19 00-0177	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.55 0.04 0.09	3.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0178 LF 5" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.09 0.04 0.10	3.53
22 07 19 00-0179 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.67 0.04 0.10	3.63
22 07 19 00-0180 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.15 0.04 0.11	3.70
22 07 19 00-0181 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.78 0.05 0.11	3.81
22 07 19 00-0182 LF 6" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.42 0.05 0.12	3.92
22 07 19 00-0183 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.84 0.05 0.12	3.98
22 07 19 00-0184 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.26 0.05 0.13	4.04
22 07 19 00-0185 LF 7" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.99 0.05 0.14	4.13
22 07 19 00-0186 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.56 0.06 0.14	4.23
22 07 19 00-0187 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.02 0.06 0.15	4.30
22 07 19 00-0188 LF 8" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.69 0.06 0.15	4.38
22 07 19 00-0189 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.33 0.07 0.16	4.45
22 07 19 00-0190 LF 9" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.16 0.07 0.17	4.57
22 07 19 00-0191 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.87 0.07 0.18	4.65
22 07 19 00-0192 LF 10" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.56 0.08 0.19	4.73
22 07 19 00-0193 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.28 0.08 0.20	4.82
22 07 19 00-0194 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.18 0.08 0.21	4.95
22 07 19 00-0195 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.94 0.09 0.22	5.05
22 07 19 00-0196 LF 12" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.70 0.09 0.23	5.14
22 07 19 00-0197 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.69 0.10 0.24	5.30
22 07 19 00-0198 LF 13" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.27 0.10 0.25	5.35
22 07 19 00-0199 LF 14" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.24 0.11 0.27	5.40
22 07 19 00-0200 LF 15" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.41 0.11 0.28	5.52
22 07 19 00-0201 LF 16" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.39 0.12 0.30	5.57
22 07 19 00-0202 LF 17" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.61 0.13 0.32	5.69
22 07 19 00-0203 LF 18" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.37 0.13 0.33	5.75
22 07 19 00-0204 LF 19" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.86 0.14 0.36	5.88
22 07 19 00-0205 LF 20" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.87 0.15 0.38	5.95

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0206 LF 21" ID, 0.032" Aluminum Insulation Jacketing.....	40.14	6.08
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.40	
22 07 19 00-0207 LF 22" ID, 0.032" Aluminum Insulation Jacketing.....	41.17	6.15
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.41	
22 07 19 00-0208 LF 23" ID, 0.032" Aluminum Insulation Jacketing.....	42.51	6.30
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.43	
22 07 19 00-0209 LF 24" ID, 0.032" Aluminum Insulation Jacketing.....	43.54	6.39
For Stucco Embossed, Add	0.18	
For Corrugated, Add	0.45	
<b>22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)</b>		
22 07 19 00-0211 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing.....	11.85	2.77
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0212 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing.....	12.33	2.84
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0213 LF 1" ID, 0.040" Aluminum Insulation Jacketing.....	12.83	2.90
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0214 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	13.35	2.98
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0215 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	13.76	3.02
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0216 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	14.17	3.06
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0217 LF 2" ID, 0.040" Aluminum Insulation Jacketing.....	14.65	3.13
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0218 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	15.14	3.19
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0219 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	15.67	3.26
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0220 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	16.11	3.31
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0221 LF 3" ID, 0.040" Aluminum Insulation Jacketing.....	16.65	3.39
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0222 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	17.20	3.46
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0223 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	17.75	3.54
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	18.23	3.60
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing.....	18.81	3.69
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	19.40	3.78
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	20.06	3.88
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	20.59	3.95
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing.....	21.24	4.06
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	21.91	4.17
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	22.49	4.26
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	23.23	4.38
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing.....	23.98	4.51
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0234 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.48 0.06 0.15	4.59
22 07 19 00-0235 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.99 0.06 0.16	4.65
22 07 19 00-0236 LF 7" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.85 0.07 0.17	4.76
22 07 19 00-0237 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.55 0.07 0.18	4.88
22 07 19 00-0238 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.09 0.07 0.18	4.96
22 07 19 00-0239 LF 8" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.89 0.08 0.19	5.04
22 07 19 00-0240 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.67 0.08 0.21	5.12
22 07 19 00-0241 LF 9" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.67 0.09 0.22	5.25
22 07 19 00-0242 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.52 0.09 0.23	5.34
22 07 19 00-0243 LF 10" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.36 0.10 0.24	5.44
22 07 19 00-0244 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.21 0.10 0.25	5.54
22 07 19 00-0245 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.30 0.11 0.26	5.69
22 07 19 00-0246 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.22 0.11 0.28	5.80
22 07 19 00-0247 LF 12" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.12 0.11 0.29	5.91
22 07 19 00-0248 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.28 0.12 0.30	6.09
22 07 19 00-0249 LF 13" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.00 0.12 0.31	6.15
22 07 19 00-0250 LF 14" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.20 0.13 0.33	6.21
22 07 19 00-0251 LF 15" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.62 0.14 0.36	6.35
22 07 19 00-0252 LF 16" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.84 0.15 0.38	6.42
22 07 19 00-0253 LF 17" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.31 0.16 0.40	6.55
22 07 19 00-0254 LF 18" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.23 0.17 0.42	6.63
22 07 19 00-0255 LF 19" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.05 0.18 0.45	6.77
22 07 19 00-0256 LF 20" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.30 0.19 0.47	6.85
22 07 19 00-0257 LF 21" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.83 0.20 0.50	7.00
22 07 19 00-0258 LF 22" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.09 0.21 0.52	7.08
22 07 19 00-0259 LF 23" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.71 0.22 0.54	7.25
22 07 19 00-0260 LF 24" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.97 0.23 0.57	7.34
<b>22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings</b> (22 07 19 00-0002)		
22 07 19 00-0262 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	15.92	2.85

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR TOTAL DIRECT DEMOLITION  
 CSI UOM DESCRIPTION UNIT COST UNIT COST

22 07 19 00-0263	EA	1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	16.34	2.95
22 07 19 00-0264	EA	2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.97	3.07
22 07 19 00-0265	EA	2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.16	3.11
22 07 19 00-0266	EA	2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.36	3.16
22 07 19 00-0267	EA	2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.67	3.24
22 07 19 00-0268	EA	3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.47	3.32
22 07 19 00-0269	EA	3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.82	3.40
22 07 19 00-0270	EA	3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.18	3.46
22 07 19 00-0271	EA	3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.62	3.52
22 07 19 00-0272	EA	4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.35	3.62
22 07 19 00-0273	EA	4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.84	3.69
22 07 19 00-0274	EA	4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.11	3.76
22 07 19 00-0275	EA	4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.40	3.83
22 07 19 00-0276	EA	5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.74	3.90
22 07 19 00-0277	EA	5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.45	3.98
22 07 19 00-0278	EA	5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	29.53	4.10
22 07 19 00-0279	EA	5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	29.87	4.19
22 07 19 00-0280	EA	6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.50	4.32
22 07 19 00-0281	EA	6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.88	4.42
22 07 19 00-0282	EA	6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.78	4.58
22 07 19 00-0283	EA	7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.07	4.69
22 07 19 00-0284	EA	7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.30	4.74
22 07 19 00-0285	EA	7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.23	4.80
22 07 19 00-0286	EA	8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	37.35	4.86
22 07 19 00-0287	EA	8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	53.02	4.98
22 07 19 00-0288	EA	9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	53.53	5.11
22 07 19 00-0289	EA	9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	45.04	5.17
22 07 19 00-0290	EA	10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	45.32	5.24
22 07 19 00-0291	EA	10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.13	5.31
22 07 19 00-0292	EA	11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.41	5.38
22 07 19 00-0293	EA	11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.41	5.53
22 07 19 00-0294	EA	12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.72	5.61
22 07 19 00-0295	EA	12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	73.44	5.77
22 07 19 00-0296	EA	13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	73.78	5.85
22 07 19 00-0297	EA	14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	91.66	6.03
22 07 19 00-0298	EA	15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	95.49	6.22
22 07 19 00-0299	EA	16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	102.29	6.32
22 07 19 00-0300	EA	2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.36	3.16
22 07 19 00-0301	EA	2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.67	3.24
22 07 19 00-0302	EA	3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.61	3.32
22 07 19 00-0303	EA	3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.96	3.40
22 07 19 00-0304	EA	3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	19.94	3.46
22 07 19 00-0305	EA	3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.19	3.52
22 07 19 00-0306	EA	4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.67	3.62
22 07 19 00-0307	EA	4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.81	3.69
22 07 19 00-0308	EA	4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.08	3.76
22 07 19 00-0309	EA	4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.37	3.83
22 07 19 00-0310	EA	5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.92	3.90
22 07 19 00-0311	EA	5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.23	3.98
22 07 19 00-0312	EA	5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.12	4.10
22 07 19 00-0313	EA	6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.02	4.32
22 07 19 00-0314	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.32	4.58
22 07 19 00-0315	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.74	4.69
22 07 19 00-0316	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.31	4.80
22 07 19 00-0317	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.55	4.86
22 07 19 00-0318	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.99	4.98
22 07 19 00-0319	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.50	5.11
22 07 19 00-0320	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.61	5.17
22 07 19 00-0321	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.89	5.24
22 07 19 00-0322	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.82	5.31
22 07 19 00-0323	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.10	5.38
22 07 19 00-0324	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	45.64	5.53
22 07 19 00-0325	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	45.95	5.61
22 07 19 00-0326	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	51.03	5.85
22 07 19 00-0327	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	58.01	6.03
22 07 19 00-0328	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.08	6.22
22 07 19 00-0329	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	81.86	6.32
22 07 19 00-0330	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	80.94	6.43
22 07 19 00-0331	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	89.13	6.53
22 07 19 00-0332	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	103.53	6.64
22 07 19 00-0333	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	101.45	6.75
22 07 19 00-0334	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	107.83	6.87
22 07 19 00-0335	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing.....	50.54	4.52
22 07 19 00-0336	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing.....	50.96	4.63
22 07 19 00-0337	EA	3" ID, Aluminum Tee Insulation Jacketing.....	55.61	4.74
22 07 19 00-0338	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing.....	56.08	4.86
22 07 19 00-0339	EA	3-1/2" ID Aluminum Tee Insulation Jacketing.....	58.32	4.98
22 07 19 00-0340	EA	4" ID, Aluminum Tee Insulation Jacketing.....	59.24	5.11
22 07 19 00-0341	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing.....	62.02	5.24
22 07 19 00-0342	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing.....	62.25	5.38
22 07 19 00-0343	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing.....	62.85	5.53





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344 EA 5" ID, Aluminum Tee Insulation Jacketing.....	65.01	5.69
22 07 19 00-0345 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing.....	65.67	5.85
22 07 19 00-0346 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing.....	68.25	6.03
22 07 19 00-0347 EA 6" ID, Aluminum Tee Insulation Jacketing.....	69.01	6.22
22 07 19 00-0348 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing.....	75.01	6.64
22 07 19 00-0349 EA 7" ID, Aluminum Tee Insulation Jacketing.....	75.92	6.87
22 07 19 00-0350 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing.....	82.33	7.11
22 07 19 00-0351 EA 8" ID, Aluminum Tee Insulation Jacketing.....	83.38	7.37
22 07 19 00-0352 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing.....	85.94	7.65
22 07 19 00-0353 EA 9" ID, Aluminum Tee Insulation Jacketing.....	87.17	7.96
22 07 19 00-0354 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing.....	73.55	8.12
22 07 19 00-0355 EA 10" ID, Aluminum Tee Insulation Jacketing.....	74.23	8.30
22 07 19 00-0356 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....	77.62	8.48
22 07 19 00-0357 EA 11" ID, Aluminum Tee Insulation Jacketing.....	78.35	8.66
22 07 19 00-0358 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing.....	81.51	8.85
22 07 19 00-0359 EA 12" ID, Aluminum Tee Insulation Jacketing.....	82.31	9.05
22 07 19 00-0360 EA 13" ID, Aluminum Tee Insulation Jacketing.....	85.44	9.26
22 07 19 00-0361 EA 14" ID, Aluminum Tee Insulation Jacketing.....	88.70	9.48
22 07 19 00-0362 EA 15" ID, Aluminum Tee Insulation Jacketing.....	93.76	9.71
22 07 19 00-0363 EA 16" ID, Aluminum Tee Insulation Jacketing.....	96.12	9.95
22 07 19 00-0364 EA 17" ID, Aluminum Tee Insulation Jacketing.....	105.56	10.21
22 07 19 00-0365 EA 18" ID, Aluminum Tee Insulation Jacketing.....	109.16	10.48
22 07 19 00-0366 EA 19" ID, Aluminum Tee Insulation Jacketing.....	117.42	10.76
22 07 19 00-0367 EA 20" ID, Aluminum Tee Insulation Jacketing.....	120.23	11.06
22 07 19 00-0368 EA 22" ID, Aluminum Tee Insulation Jacketing.....	142.17	11.37
22 07 19 00-0369 EA 23" ID, Aluminum Tee Insulation Jacketing.....	146.21	11.71
22 07 19 00-0370 EA 24" ID, Aluminum Tee Insulation Jacketing.....	153.31	12.84
22 07 19 00-0371	<b>Stainless Steel Insulation Protective Jacketing With Bands</b> (22 07 19 00-0001)	
22 07 19 00-0372	<b>Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands</b> (22 07 19 00-0371)	
22 07 19 00-0373 SF 0.010" Stainless Steel Insulation Jacket With Bands.....	18.52	7.46
22 07 19 00-0374 SF 0.016" Stainless Steel Insulation Jacket With Bands.....	22.71	8.96
22 07 19 00-0375	<b>10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands</b> (22 07 19 00-0371)	
22 07 19 00-0376 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	9.55	1.59
22 07 19 00-0377 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	9.96	1.63
22 07 19 00-0378 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.37	1.66
22 07 19 00-0379 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.80	1.70
22 07 19 00-0380 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.23	1.73
22 07 19 00-0381 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.66	1.77
22 07 19 00-0382 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.10	1.81
22 07 19 00-0383 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.55	1.85
22 07 19 00-0384 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.00	1.90
22 07 19 00-0385 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.95	1.99
22 07 19 00-0386 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.94	2.09
22 07 19 00-0387 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.96	2.21
22 07 19 00-0388 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	16.77	2.27
22 07 19 00-0389 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing.....	17.61	2.34
22 07 19 00-0390 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.51	2.42
22 07 19 00-0391 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing.....	19.25	2.47
22 07 19 00-0392 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.00	2.52
22 07 19 00-0393 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.77	2.56
22 07 19 00-0394 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.53	2.61
22 07 19 00-0395 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.30	2.67
22 07 19 00-0396 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.09	2.73
22 07 19 00-0397 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.88	2.79
22 07 19 00-0398 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing.....	25.48	2.91
22 07 19 00-0399 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.06	3.02
22 07 19 00-0400 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing.....	28.36	3.07
22 07 19 00-0401	<b>16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands</b> (22 07 19 00-0371)	
22 07 19 00-0402 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	13.07	2.12
22 07 19 00-0403 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	13.65	2.16
22 07 19 00-0404 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.24	2.20
22 07 19 00-0405 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.84	2.25
22 07 19 00-0406 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.44	2.30
22 07 19 00-0407 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.05	2.35
22 07 19 00-0408 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.67	2.40
22 07 19 00-0409 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.30	2.46
22 07 19 00-0410 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.95	2.52
22 07 19 00-0411 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.27	2.64
22 07 19 00-0412 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	20.65	2.79
22 07 19 00-0413 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing.....	22.07	2.95
22 07 19 00-0414 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.23	3.03



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 07 19 00-0415	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing .....	24.41	3.12
22 07 19 00-0416	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	25.67	3.23
22 07 19 00-0417	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing .....	26.72	3.29
22 07 19 00-0418	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	27.78	3.35
22 07 19 00-0419	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing .....	28.88	3.42
22 07 19 00-0420	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	29.96	3.48
22 07 19 00-0421	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing .....	31.05	3.55
22 07 19 00-0422	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	32.17	3.63
22 07 19 00-0423	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing .....	33.28	3.70
22 07 19 00-0424	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing .....	35.57	3.86
22 07 19 00-0425	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing .....	37.79	4.01
22 07 19 00-0426	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing .....	39.65	4.07

**22 07 19 00-0427** Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0371)

22 07 19 00-0428	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	26.63	3.16
22 07 19 00-0429	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	26.94	3.24
22 07 19 00-0430	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	27.90	3.32
22 07 19 00-0431	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	28.25	3.40
22 07 19 00-0432	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	29.22	3.46
22 07 19 00-0433	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	30.34	3.52
22 07 19 00-0434	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	32.34	3.62
22 07 19 00-0435	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	38.48	3.69
22 07 19 00-0436	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	38.75	3.76
22 07 19 00-0437	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	39.90	3.90
22 07 19 00-0438	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	52.61	4.10
22 07 19 00-0439	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	57.05	4.32
22 07 19 00-0440	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	73.00	4.58
22 07 19 00-0441	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	73.42	4.69
22 07 19 00-0442	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	83.05	4.80
22 07 19 00-0443	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	83.77	4.98
22 07 19 00-0444	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	85.94	4.98
22 07 19 00-0445	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	120.85	5.11
22 07 19 00-0446	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	119.36	5.17
22 07 19 00-0447	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	119.64	5.24
22 07 19 00-0448	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	139.31	5.31
22 07 19 00-0449	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	134.23	5.38
22 07 19 00-0450	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	150.39	5.61
22 07 19 00-0451	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	200.70	5.85
22 07 19 00-0452	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	202.61	6.03
22 07 19 00-0453	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	24.31	3.16
22 07 19 00-0454	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	24.62	3.24
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	25.82	3.32
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	26.17	3.40
22 07 19 00-0457	EA	3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	26.56	3.46
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	26.81	3.52
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	30.81	3.62
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	37.68	3.69
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	37.95	3.76
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	38.24	3.83
22 07 19 00-0463	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	38.94	3.90
22 07 19 00-0464	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	39.74	4.10
22 07 19 00-0465	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	44.98	4.32
22 07 19 00-0466	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	45.97	4.58
22 07 19 00-0467	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	65.54	4.69
22 07 19 00-0468	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	66.96	4.80
22 07 19 00-0469	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	67.20	4.86
22 07 19 00-0470	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	75.81	4.98
22 07 19 00-0471	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	76.32	5.11
22 07 19 00-0472	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	86.31	5.17
22 07 19 00-0473	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	86.59	5.24
22 07 19 00-0474	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	100.11	5.31
22 07 19 00-0475	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	100.39	5.38
22 07 19 00-0476	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	108.08	5.61
22 07 19 00-0477	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing .....	124.21	5.85

**22 07 19 00-0478** Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

**22 07 19 00-0479** 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	6.17	1.48
22 07 19 00-0481	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	6.48	1.53
22 07 19 00-0482	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	6.81	1.59
22 07 19 00-0483	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.16	1.66
22 07 19 00-0484	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.51	1.73
22 07 19 00-0485	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.90	1.81
22 07 19 00-0486	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.32	1.90
22 07 19 00-0487	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.77	1.99
22 07 19 00-0488	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.27	2.09
22 07 19 00-0489	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.81	2.21
22 07 19 00-0490	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.14	2.27



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0491	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.48	2.34
22 07 19 00-0492	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.91	2.42
22 07 19 00-0493	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.15	2.47
22 07 19 00-0494	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.42	2.52
22 07 19 00-0495	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.70	2.56
22 07 19 00-0496	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.98	2.61
22 07 19 00-0497	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.26	2.67
22 07 19 00-0498	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.56	2.73
22 07 19 00-0499	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.86	2.79
22 07 19 00-0500	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.17	2.85
22 07 19 00-0501	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.49	2.91
22 07 19 00-0502	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.85	2.97
22 07 19 00-0503	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.10	3.02
22 07 19 00-0504	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.17	3.02
22 07 19 00-0505	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.43	3.07
22 07 19 00-0506	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.78	3.11
22 07 19 00-0507	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.13	3.16
22 07 19 00-0508	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.48	3.21
22 07 19 00-0509	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.85	3.27
22 07 19 00-0510	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.21	3.32
22 07 19 00-0511	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.59	3.38
22 07 19 00-0512	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.98	3.43
22 07 19 00-0513	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.37	3.49
22 07 19 00-0514	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.77	3.56
22 07 19 00-0515	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.19	3.62
22 07 19 00-0516	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.61	3.69
22 07 19 00-0517	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.03	3.76
22 07 19 00-0518	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.47	3.83
22 07 19 00-0519	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.93	3.90
22 07 19 00-0520	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.40	3.98
22 07 19 00-0521	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.87	4.06
<b>22 07 19 00-0522</b>		<b>30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)</b>		
22 07 19 00-0523	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	6.65	1.53
22 07 19 00-0524	LF	2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.02	1.59
22 07 19 00-0525	LF	3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.40	1.66
22 07 19 00-0526	LF	3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.79	1.73
22 07 19 00-0527	LF	4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.21	1.81
22 07 19 00-0528	LF	4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.67	1.90
22 07 19 00-0529	LF	5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.16	1.99
22 07 19 00-0530	LF	5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.70	2.09
22 07 19 00-0531	LF	6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.27	2.21
22 07 19 00-0532	LF	6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.63	2.27
22 07 19 00-0533	LF	7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.02	2.34
22 07 19 00-0534	LF	7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.48	2.42
22 07 19 00-0535	LF	8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.77	2.47
22 07 19 00-0536	LF	8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.07	2.52
22 07 19 00-0537	LF	9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.38	2.56
22 07 19 00-0538	LF	9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.70	2.61
22 07 19 00-0539	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.02	2.67
22 07 19 00-0540	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.35	2.73
22 07 19 00-0541	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.69	2.79
22 07 19 00-0542	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.03	2.85
22 07 19 00-0543	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.40	2.91
22 07 19 00-0544	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.79	2.97
22 07 19 00-0545	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.08	3.02
22 07 19 00-0546	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.19	3.02
22 07 19 00-0547	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.49	3.07
22 07 19 00-0548	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.90	3.11
22 07 19 00-0549	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.32	3.16
22 07 19 00-0550	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.75	3.21
22 07 19 00-0551	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.19	3.27
22 07 19 00-0552	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.64	3.32
22 07 19 00-0553	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.08	3.38
22 07 19 00-0554	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.54	3.43
22 07 19 00-0555	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.01	3.49
22 07 19 00-0556	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.48	3.56
22 07 19 00-0557	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.97	3.62
22 07 19 00-0558	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.47	3.69
22 07 19 00-0559	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.96	3.76
22 07 19 00-0560	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	21.48	3.83
22 07 19 00-0561	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	22.01	3.90
22 07 19 00-0562	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	22.55	3.98
22 07 19 00-0563	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	23.09	4.06
<b>22 07 19 00-0564</b>		<b>Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0478)</b>		
22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	12.41	2.95
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	13.01	3.07



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22 07 19 00-0567	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	13.29	3.11
22 07 19 00-0568	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	13.58	3.16
22 07 19 00-0569	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	13.97	3.24
22 07 19 00-0570	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	14.34	3.32
22 07 19 00-0571	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	14.95	3.43
22 07 19 00-0572	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	15.47	3.52
22 07 19 00-0573	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	16.20	3.62
22 07 19 00-0574	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	17.24	3.79
22 07 19 00-0575	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	18.36	3.98
22 07 19 00-0576	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	19.96	4.19
22 07 19 00-0577	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	23.04	4.42
22 07 19 00-0578	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	23.93	4.58
22 07 19 00-0579	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	25.77	4.69
22 07 19 00-0580	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	26.58	4.80
22 07 19 00-0581	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	29.41	4.98
22 07 19 00-0582	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	33.38	5.17
22 07 19 00-0583	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	35.69	5.38
22 07 19 00-0584	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	38.67	5.61
22 07 19 00-0585	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	43.93	5.85
22 07 19 00-0586	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	47.57	6.03
22 07 19 00-0587	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	50.08	6.22
22 07 19 00-0588	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	52.77	6.32
22 07 19 00-0589	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	56.20	6.43
22 07 19 00-0590	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	65.46	6.53
22 07 19 00-0591	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	79.97	6.64
22 07 19 00-0592	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	95.66	6.75
22 07 19 00-0593	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	12.41	2.95
22 07 19 00-0594	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	13.01	3.07
22 07 19 00-0595	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	13.29	3.11
22 07 19 00-0596	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	13.58	3.16
22 07 19 00-0597	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	13.97	3.24
22 07 19 00-0598	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	14.34	3.32
22 07 19 00-0599	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	14.95	3.43
22 07 19 00-0600	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	15.47	3.52
22 07 19 00-0601	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	16.20	3.62
22 07 19 00-0602	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	17.24	3.79
22 07 19 00-0603	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	18.36	3.98
22 07 19 00-0604	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	19.96	4.19
22 07 19 00-0605	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	23.04	4.42
22 07 19 00-0606	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	23.93	4.58
22 07 19 00-0607	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	25.77	4.69
22 07 19 00-0608	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	26.58	4.80
22 07 19 00-0609	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	29.41	4.98
22 07 19 00-0610	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	33.38	5.17
22 07 19 00-0611	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	35.68	5.38
22 07 19 00-0612	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	38.05	5.61
22 07 19 00-0613	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	40.85	5.85
22 07 19 00-0614	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	44.05	6.03
22 07 19 00-0615	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	46.26	6.22
22 07 19 00-0616	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	49.69	6.32
22 07 19 00-0617	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	53.17	6.43
22 07 19 00-0618	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	59.69	6.53
22 07 19 00-0619	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	72.36	6.64
22 07 19 00-0620	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	78.89	6.75
22 07 19 00-0621	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	17.75	4.14
22 07 19 00-0622	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	18.26	4.23
22 07 19 00-0623	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	18.93	4.37
22 07 19 00-0624	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	19.67	4.52
22 07 19 00-0625	EA	2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	20.45	4.69
22 07 19 00-0626	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	21.30	4.86
22 07 19 00-0627	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	22.31	5.04
22 07 19 00-0628	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	23.40	5.24
22 07 19 00-0629	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	24.71	5.45
22 07 19 00-0630	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	26.35	5.69
22 07 19 00-0631	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	28.09	5.94
22 07 19 00-0632	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	31.02	6.32
22 07 19 00-0633	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	34.10	6.64
22 07 19 00-0634	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	36.34	6.75
22 07 19 00-0635	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	43.03	6.99
22 07 19 00-0636	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	46.04	7.37
22 07 19 00-0637	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	50.76	7.65
22 07 19 00-0638	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	55.59	7.96
22 07 19 00-0639	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	57.19	8.30
22 07 19 00-0640	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	60.57	8.48
22 07 19 00-0641	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	63.96	8.66
22 07 19 00-0642	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	67.43	8.85
22 07 19 00-0643	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	70.88	9.05
22 07 19 00-0644	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	74.39	9.26
22 07 19 00-0645	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	77.92	9.48
22 07 19 00-0646	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	82.87	9.71
22 07 19 00-0647	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	87.86	9.95





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22 07 19 00-0648 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing .....	93.76	10.21
22 07 19 00-0649 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	16.24	2.85
22 07 19 00-0650 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	16.24	2.85
22 07 19 00-0651 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	17.96	2.95
22 07 19 00-0652 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	17.96	2.95
22 07 19 00-0653 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	21.98	3.07
22 07 19 00-0654 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	23.54	3.19
22 07 19 00-0655 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	25.37	3.32
22 07 19 00-0656 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	27.85	3.46
22 07 19 00-0657 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	30.09	3.62
22 07 19 00-0658 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	35.33	3.98
22 07 19 00-0659 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	46.36	4.42
22 07 19 00-0660 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	51.12	4.98
22 07 19 00-0661 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	61.17	5.31
22 07 19 00-0662 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	80.85	5.85
22 07 19 00-0663 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	82.04	6.12
22 07 19 00-0664 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	103.52	6.32
22 07 19 00-0665 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing .....	133.72	6.53
22 07 19 00-0666 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	15.70	2.85
22 07 19 00-0667 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	15.70	2.85
22 07 19 00-0668 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	17.31	2.95
22 07 19 00-0669 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	17.31	2.95
22 07 19 00-0670 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	20.91	3.07
22 07 19 00-0671 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	22.36	3.19
22 07 19 00-0672 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	24.07	3.32
22 07 19 00-0673 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	25.25	3.46
22 07 19 00-0674 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	28.36	3.62
22 07 19 00-0675 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	33.19	3.98
22 07 19 00-0676 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	43.21	4.42
22 07 19 00-0677 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	47.67	4.98
22 07 19 00-0678 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	56.78	5.31
22 07 19 00-0679 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	74.57	5.85
22 07 19 00-0680 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	91.04	6.12
22 07 19 00-0681 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	105.88	6.32
22 07 19 00-0682 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing .....	121.25	6.53
22 07 19 00-0683 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	23.47	4.28
22 07 19 00-0684 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	23.47	4.28
22 07 19 00-0685 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	25.72	4.42
22 07 19 00-0686 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	25.72	4.42
22 07 19 00-0687 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	30.95	4.58
22 07 19 00-0688 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	33.02	4.74
22 07 19 00-0689 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	35.64	4.98
22 07 19 00-0690 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	37.35	5.17
22 07 19 00-0691 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	42.17	5.45
22 07 19 00-0692 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	46.19	5.94
22 07 19 00-0693 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	59.72	6.64
22 07 19 00-0694 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	65.45	7.37
22 07 19 00-0695 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	83.78	7.96
22 07 19 00-0696 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	109.26	8.66
22 07 19 00-0697 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	127.18	9.26
22 07 19 00-0698 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	146.06	9.48
22 07 19 00-0699 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	157.98	9.71
22 07 19 00-0700 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0701 Covering 4x6 Sheet (22 07 19 00-0700)		
22 07 19 00-0702 SF 1" Thick Foam Rubber Sheet Insulation.....	18.65	7.07
22 07 19 00-0703 Fiberglass Pipe Insulation (22 07 19)		
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0705 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	7.98	2.19
For Single Layer Of Felt Finish, Add	0.22	
For Work In Restricted Working Space, Add	1.78	
22 07 19 00-0706 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	8.21	2.19
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	1.78	
22 07 19 00-0707 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	8.74	2.29
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	1.88	
22 07 19 00-0708 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	9.10	2.39
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	1.92	
22 07 19 00-0709 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	9.39	2.39
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	1.96	

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0710 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	9.96	2.48
For Single Layer Of Felt Finish, Add	0.32	
For Work In Restricted Working Space, Add	2.06	
22 07 19 00-0711 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	10.52	2.58
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	2.10	
22 07 19 00-0712 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	11.17	2.68
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	2.17	
22 07 19 00-0713 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	12.87	2.89
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	2.35	
22 07 19 00-0714 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	15.24	3.39
For Single Layer Of Felt Finish, Add	0.64	
For Work In Restricted Working Space, Add	2.74	
<b>22 07 19 00-0715 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0716 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	10.64	2.99
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	2.45	
22 07 19 00-0717 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	10.99	2.99
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	2.45	
22 07 19 00-0718 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	11.17	2.99
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	2.49	
22 07 19 00-0719 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	11.67	3.09
For Single Layer Of Felt Finish, Add	0.34	
For Work In Restricted Working Space, Add	2.53	
22 07 19 00-0720 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	12.03	3.09
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	2.56	
22 07 19 00-0721 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	12.58	3.19
For Single Layer Of Felt Finish, Add	0.40	
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0722 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.32	3.39
For Single Layer Of Felt Finish, Add	0.44	
For Work In Restricted Working Space, Add	2.74	
22 07 19 00-0723 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.11	3.48
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0724 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	16.19	3.68
For Single Layer Of Felt Finish, Add	0.64	
For Work In Restricted Working Space, Add	3.02	
22 07 19 00-0725 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	18.85	4.28
For Single Layer Of Felt Finish, Add	0.79	
For Work In Restricted Working Space, Add	3.41	
22 07 19 00-0726 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	23.72	4.78
For Single Layer Of Felt Finish, Add	1.12	
For Work In Restricted Working Space, Add	3.91	
22 07 19 00-0727 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	27.88	5.67
For Single Layer Of Felt Finish, Add	1.31	
For Work In Restricted Working Space, Add	4.62	
22 07 19 00-0728 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	31.94	6.47
For Single Layer Of Felt Finish, Add	1.49	
For Work In Restricted Working Space, Add	5.33	
22 07 19 00-0729 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	34.80	7.07
For Single Layer Of Felt Finish, Add	1.72	
For Work In Restricted Working Space, Add	5.52	
<b>22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0731 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.51	3.08
For Single Layer Of Felt Finish, Add	0.52	
For Work In Restricted Working Space, Add	2.56	
22 07 19 00-0732 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.74	3.08
For Single Layer Of Felt Finish, Add	0.55	
For Work In Restricted Working Space, Add	2.56	
22 07 19 00-0733 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.51	3.26
For Single Layer Of Felt Finish, Add	0.58	
For Work In Restricted Working Space, Add	2.71	
22 07 19 00-0734 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	15.09	3.33
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	2.76	
22 07 19 00-0735 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	15.58	3.39
For Single Layer Of Felt Finish, Add	0.65	
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0736 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	16.65	3.56
For Single Layer Of Felt Finish, Add	0.71	
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0737 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	17.51	3.62
For Single Layer Of Felt Finish, Add	0.78	
For Work In Restricted Working Space, Add	3.02	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0738 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.06	3.75
<i>For Single Layer Of Felt Finish, Add</i>	0.81	
<i>For Work In Restricted Working Space, Add</i>	3.12	
22 07 19 00-0739 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.04	4.06
<i>For Single Layer Of Felt Finish, Add</i>	0.92	
<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0740 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.16	4.74
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	3.94	
22 07 19 00-0741 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.42	5.00
<i>For Single Layer Of Felt Finish, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0742 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.42	5.98
<i>For Single Layer Of Felt Finish, Add</i>	1.66	
<i>For Work In Restricted Working Space, Add</i>	4.97	
22 07 19 00-0743 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.56	6.97
<i>For Single Layer Of Felt Finish, Add</i>	1.81	
<i>For Work In Restricted Working Space, Add</i>	5.79	
22 07 19 00-0744 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.14	7.63
<i>For Single Layer Of Felt Finish, Add</i>	2.10	
<i>For Work In Restricted Working Space, Add</i>	6.35	
<b>22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0746 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.18	3.39
<i>For Single Layer Of Felt Finish, Add</i>	0.82	
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0747 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.45	3.39
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0748 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.13	3.48
<i>For Single Layer Of Felt Finish, Add</i>	0.91	
<i>For Work In Restricted Working Space, Add</i>	2.84	
22 07 19 00-0749 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.73	3.48
<i>For Single Layer Of Felt Finish, Add</i>	0.96	
<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-0750 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.37	3.58
<i>For Single Layer Of Felt Finish, Add</i>	1.01	
<i>For Work In Restricted Working Space, Add</i>	2.91	
22 07 19 00-0751 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.12	3.68
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0752 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.22	3.78
<i>For Single Layer Of Felt Finish, Add</i>	1.13	
<i>For Work In Restricted Working Space, Add</i>	3.13	
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.41	3.98
<i>For Single Layer Of Felt Finish, Add</i>	1.22	
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.69	4.18
<i>For Single Layer Of Felt Finish, Add</i>	1.40	
<i>For Work In Restricted Working Space, Add</i>	3.41	
22 07 19 00-0755 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.13	4.91
<i>For Single Layer Of Felt Finish, Add</i>	1.63	
<i>For Work In Restricted Working Space, Add</i>	4.10	
22 07 19 00-0756 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.53	5.19
<i>For Single Layer Of Felt Finish, Add</i>	2.01	
<i>For Work In Restricted Working Space, Add</i>	4.32	
22 07 19 00-0757 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.14	6.20
<i>For Single Layer Of Felt Finish, Add</i>	2.40	
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0758 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.78	7.43
<i>For Single Layer Of Felt Finish, Add</i>	2.64	
<i>For Work In Restricted Working Space, Add</i>	6.19	
22 07 19 00-0759 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.23	8.11
<i>For Single Layer Of Felt Finish, Add</i>	2.98	
<i>For Work In Restricted Working Space, Add</i>	8.64	
22 07 19 00-0760 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.17	9.50
<i>For Single Layer Of Felt Finish, Add</i>	3.40	
<i>For Work In Restricted Working Space, Add</i>	8.64	
22 07 19 00-0761 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	68.70	9.99
<i>For Single Layer Of Felt Finish, Add</i>	4.04	
<i>For Work In Restricted Working Space, Add</i>	9.07	
22 07 19 00-0762 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.72	11.40
<i>For Single Layer Of Felt Finish, Add</i>	4.53	
<i>For Work In Restricted Working Space, Add</i>	10.37	
22 07 19 00-0763 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.61	13.79
<i>For Single Layer Of Felt Finish, Add</i>	5.02	
<i>For Work In Restricted Working Space, Add</i>	12.53	
<b>22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0765 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.68	3.98
<i>For Single Layer Of Felt Finish, Add</i>	1.14	
<i>For Work In Restricted Working Space, Add</i>	3.24	

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0766 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	22.05	3.98
For Single Layer Of Felt Finish, Add	1.18	
For Work In Restricted Working Space, Add	3.24	
22 07 19 00-0767 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	23.04	3.98
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	3.29	
22 07 19 00-0768 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	23.79	4.08
For Single Layer Of Felt Finish, Add	1.34	
For Work In Restricted Working Space, Add	3.32	
22 07 19 00-0769 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	24.59	4.08
For Single Layer Of Felt Finish, Add	1.41	
For Work In Restricted Working Space, Add	3.34	
22 07 19 00-0770 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	25.60	4.28
For Single Layer Of Felt Finish, Add	1.47	
For Work In Restricted Working Space, Add	3.48	
22 07 19 00-0771 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	27.17	4.38
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	3.60	
22 07 19 00-0772 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.56	4.58
For Single Layer Of Felt Finish, Add	1.69	
For Work In Restricted Working Space, Add	3.73	
22 07 19 00-0773 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	31.88	4.78
For Single Layer Of Felt Finish, Add	1.97	
For Work In Restricted Working Space, Add	3.93	
22 07 19 00-0774 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	36.61	5.08
For Single Layer Of Felt Finish, Add	2.28	
For Work In Restricted Working Space, Add	4.46	
22 07 19 00-0775 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	50.39	6.07
For Single Layer Of Felt Finish, Add	3.55	
For Work In Restricted Working Space, Add	4.98	
22 07 19 00-0776 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	60.50	6.97
For Single Layer Of Felt Finish, Add	4.34	
For Work In Restricted Working Space, Add	5.74	
22 07 19 00-0777 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	67.82	8.66
For Single Layer Of Felt Finish, Add	4.62	
For Work In Restricted Working Space, Add	7.13	
22 07 19 00-0778 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	77.12	9.55
For Single Layer Of Felt Finish, Add	5.37	
For Work In Restricted Working Space, Add	7.79	
22 07 19 00-0779 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	89.55	12.15
For Single Layer Of Felt Finish, Add	5.92	
For Work In Restricted Working Space, Add	9.95	
22 07 19 00-0780 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	96.68	12.74
For Single Layer Of Felt Finish, Add	6.49	
For Work In Restricted Working Space, Add	10.45	
22 07 19 00-0781 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	109.61	14.53
For Single Layer Of Felt Finish, Add	7.33	
For Work In Restricted Working Space, Add	11.95	
22 07 19 00-0782 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	128.33	17.56
For Single Layer Of Felt Finish, Add	8.42	
For Work In Restricted Working Space, Add	14.43	
<b>22 07 19 00-0783 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0784 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	23.89	4.40
For Single Layer Of Felt Finish, Add	1.25	
For Work In Restricted Working Space, Add	3.59	
22 07 19 00-0785 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	24.30	4.40
For Single Layer Of Felt Finish, Add	1.30	
For Work In Restricted Working Space, Add	3.59	
22 07 19 00-0786 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	25.33	4.44
For Single Layer Of Felt Finish, Add	1.39	
For Work In Restricted Working Space, Add	3.62	
22 07 19 00-0787 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	26.15	4.46
For Single Layer Of Felt Finish, Add	1.47	
For Work In Restricted Working Space, Add	3.65	
22 07 19 00-0788 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	27.06	4.51
For Single Layer Of Felt Finish, Add	1.55	
For Work In Restricted Working Space, Add	3.69	
22 07 19 00-0789 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.12	4.69
For Single Layer Of Felt Finish, Add	1.61	
For Work In Restricted Working Space, Add	3.82	
22 07 19 00-0790 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	29.83	4.85
For Single Layer Of Felt Finish, Add	1.75	
For Work In Restricted Working Space, Add	3.95	
22 07 19 00-0791 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	31.36	5.03
For Single Layer Of Felt Finish, Add	1.86	
For Work In Restricted Working Space, Add	4.10	
22 07 19 00-0792 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	35.02	5.31
For Single Layer Of Felt Finish, Add	2.16	
For Work In Restricted Working Space, Add	4.32	
22 07 19 00-0793 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	40.20	6.02
For Single Layer Of Felt Finish, Add	2.50	
For Work In Restricted Working Space, Add	4.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0794 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	55.33	6.71
<i>For Single Layer Of Felt Finish, Add</i>	3.89	
<i>For Work In Restricted Working Space, Add</i>	5.47	
22 07 19 00-0795 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	66.44	7.74
<i>For Single Layer Of Felt Finish, Add</i>	4.77	
<i>For Work In Restricted Working Space, Add</i>	6.32	
22 07 19 00-0796 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	74.50	9.62
<i>For Single Layer Of Felt Finish, Add</i>	5.08	
<i>For Work In Restricted Working Space, Add</i>	7.85	
22 07 19 00-0797 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	84.70	10.51
<i>For Single Layer Of Felt Finish, Add</i>	5.89	
<i>For Work In Restricted Working Space, Add</i>	8.57	
22 07 19 00-0798 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	98.36	13.42
<i>For Single Layer Of Felt Finish, Add</i>	6.50	
<i>For Work In Restricted Working Space, Add</i>	10.95	
22 07 19 00-0799 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	106.21	14.11
<i>For Single Layer Of Felt Finish, Add</i>	7.13	
<i>For Work In Restricted Working Space, Add</i>	11.50	
22 07 19 00-0800 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	120.41	16.13
<i>For Single Layer Of Felt Finish, Add</i>	8.04	
<i>For Work In Restricted Working Space, Add</i>	13.15	
22 07 19 00-0801 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	140.96	19.47
<i>For Single Layer Of Felt Finish, Add</i>	9.24	
<i>For Work In Restricted Working Space, Add</i>	15.88	
<b>22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)</b>		
22 07 19 00-0803 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	25.65	4.78
<i>For Single Layer Of Felt Finish, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	3.93	
22 07 19 00-0804 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	26.13	4.78
<i>For Single Layer Of Felt Finish, Add</i>	1.37	
<i>For Work In Restricted Working Space, Add</i>	3.93	
22 07 19 00-0805 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	27.68	4.78
<i>For Single Layer Of Felt Finish, Add</i>	1.52	
<i>For Work In Restricted Working Space, Add</i>	3.95	
22 07 19 00-0806 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.54	4.88
<i>For Single Layer Of Felt Finish, Add</i>	1.60	
<i>For Work In Restricted Working Space, Add</i>	3.98	
22 07 19 00-0807 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	29.57	4.88
<i>For Single Layer Of Felt Finish, Add</i>	1.69	
<i>For Work In Restricted Working Space, Add</i>	4.03	
22 07 19 00-0808 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	30.69	5.08
<i>For Single Layer Of Felt Finish, Add</i>	1.76	
<i>For Work In Restricted Working Space, Add</i>	4.17	
22 07 19 00-0809 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	32.56	5.28
<i>For Single Layer Of Felt Finish, Add</i>	1.91	
<i>For Work In Restricted Working Space, Add</i>	4.31	
22 07 19 00-0810 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	34.11	5.47
<i>For Single Layer Of Felt Finish, Add</i>	2.02	
<i>For Work In Restricted Working Space, Add</i>	4.46	
22 07 19 00-0811 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	38.27	5.77
<i>For Single Layer Of Felt Finish, Add</i>	2.37	
<i>For Work In Restricted Working Space, Add</i>	4.72	
22 07 19 00-0812 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	43.91	6.57
<i>For Single Layer Of Felt Finish, Add</i>	2.74	
<i>For Work In Restricted Working Space, Add</i>	5.36	
22 07 19 00-0813 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	60.43	7.27
<i>For Single Layer Of Felt Finish, Add</i>	4.26	
<i>For Work In Restricted Working Space, Add</i>	5.97	
22 07 19 00-0814 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	72.59	8.37
<i>For Single Layer Of Felt Finish, Add</i>	5.21	
<i>For Work In Restricted Working Space, Add</i>	6.89	
22 07 19 00-0815 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	81.38	10.45
<i>For Single Layer Of Felt Finish, Add</i>	5.55	
<i>For Work In Restricted Working Space, Add</i>	8.56	
22 07 19 00-0816 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	92.56	11.44
<i>For Single Layer Of Felt Finish, Add</i>	6.45	
<i>For Work In Restricted Working Space, Add</i>	9.35	
22 07 19 00-0817 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	107.49	14.53
<i>For Single Layer Of Felt Finish, Add</i>	7.11	
<i>For Work In Restricted Working Space, Add</i>	11.95	
22 07 19 00-0818 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	116.03	15.32
<i>For Single Layer Of Felt Finish, Add</i>	7.79	
<i>For Work In Restricted Working Space, Add</i>	12.54	
22 07 19 00-0819 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	131.57	17.52
<i>For Single Layer Of Felt Finish, Add</i>	8.79	
<i>For Work In Restricted Working Space, Add</i>	14.34	
22 07 19 00-0820 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	154.02	21.11
<i>For Single Layer Of Felt Finish, Add</i>	10.11	
<i>For Work In Restricted Working Space, Add</i>	17.32	

**22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)**

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0822	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....29.22 <i>For Single Layer Of Felt Finish, Add</i> 1.54 <i>For Work In Restricted Working Space, Add</i> 4.36		5.38
22 07 19 00-0823	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....29.74 <i>For Single Layer Of Felt Finish, Add</i> 1.60 <i>For Work In Restricted Working Space, Add</i> 4.36		5.38
22 07 19 00-0824	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....31.07 <i>For Single Layer Of Felt Finish, Add</i> 1.71 <i>For Work In Restricted Working Space, Add</i> 4.44		5.38
22 07 19 00-0825	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....32.17 <i>For Single Layer Of Felt Finish, Add</i> 1.81 <i>For Work In Restricted Working Space, Add</i> 4.49		5.47
22 07 19 00-0826	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....33.59 <i>For Single Layer Of Felt Finish, Add</i> 1.91 <i>For Work In Restricted Working Space, Add</i> 4.63		5.67
22 07 19 00-0827	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....34.85 <i>For Single Layer Of Felt Finish, Add</i> 1.99 <i>For Work In Restricted Working Space, Add</i> 4.78		5.87
22 07 19 00-0828	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....36.62 <i>For Single Layer Of Felt Finish, Add</i> 2.15 <i>For Work In Restricted Working Space, Add</i> 4.85		5.87
22 07 19 00-0829	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....38.55 <i>For Single Layer Of Felt Finish, Add</i> 2.29 <i>For Work In Restricted Working Space, Add</i> 5.03		6.17
22 07 19 00-0830	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....43.03 <i>For Single Layer Of Felt Finish, Add</i> 2.66 <i>For Work In Restricted Working Space, Add</i> 5.31		6.47
22 07 19 00-0831	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....49.39 <i>For Single Layer Of Felt Finish, Add</i> 3.08 <i>For Work In Restricted Working Space, Add</i> 6.02		7.37
22 07 19 00-0832	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....67.98 <i>For Single Layer Of Felt Finish, Add</i> 4.79 <i>For Work In Restricted Working Space, Add</i> 6.71		7.96
22 07 19 00-0833	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....81.67 <i>For Single Layer Of Felt Finish, Add</i> 5.86 <i>For Work In Restricted Working Space, Add</i> 7.76		9.45
22 07 19 00-0834	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....91.58 <i>For Single Layer Of Felt Finish, Add</i> 6.24 <i>For Work In Restricted Working Space, Add</i> 9.63		11.74
22 07 19 00-0835	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....104.15 <i>For Single Layer Of Felt Finish, Add</i> 7.25 <i>For Work In Restricted Working Space, Add</i> 10.52		12.84
22 07 19 00-0836	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....120.96 <i>For Single Layer Of Felt Finish, Add</i> 7.99 <i>For Work In Restricted Working Space, Add</i> 13.45		16.42
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....130.49 <i>For Single Layer Of Felt Finish, Add</i> 8.77 <i>For Work In Restricted Working Space, Add</i> 14.10		17.22
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....145.85 <i>For Single Layer Of Felt Finish, Add</i> 9.67 <i>For Work In Restricted Working Space, Add</i> 16.13		19.71
22 07 19 00-0839	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....173.29 <i>For Single Layer Of Felt Finish, Add</i> 11.37 <i>For Work In Restricted Working Space, Add</i> 19.49		23.79
22 07 19 00-0840	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....196.76 <i>For Single Layer Of Felt Finish, Add</i> 12.62 <i>For Work In Restricted Working Space, Add</i> 22.97		28.07
22 07 19 00-0841	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....220.02 <i>For Single Layer Of Felt Finish, Add</i> 13.63 <i>For Work In Restricted Working Space, Add</i> 27.05		33.05
22 07 19 00-0842	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....245.75 <i>For Single Layer Of Felt Finish, Add</i> 14.59 <i>For Work In Restricted Working Space, Add</i> 32.04		39.03
22 07 19 00-0843	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....293.66 <i>For Single Layer Of Felt Finish, Add</i> 16.57 <i>For Work In Restricted Working Space, Add</i> 40.74		49.61
22 07 19 00-0844	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....341.58 <i>For Single Layer Of Felt Finish, Add</i> 18.56 <i>For Work In Restricted Working Space, Add</i> 49.44		60.42
22 07 19 00-0845	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....365.22 <i>For Single Layer Of Felt Finish, Add</i> 19.28 <i>For Work In Restricted Working Space, Add</i> 54.49		66.40
22 07 19 00-0846	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....386.91 <i>For Single Layer Of Felt Finish, Add</i> 20.05 <i>For Work In Restricted Working Space, Add</i> 58.79		71.47

**22 07 19 00-0847 Foamglas Pipe Insulation, Rigid, Closed Cell** (22 07 19)  
 Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

<b>22 07 19 00-0848 1" Thick Foamglas Pipe Insulation</b> <small>(22 07 19 00-0847)</small>					
22 07 19 00-0849	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation .....17.05 <i>For Work In Restricted Working Space, Add</i> 4.41		4.86





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0850 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.65 4.41	4.86
22 07 19 00-0851 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.46 4.48	4.93
22 07 19 00-0852 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.88 4.54	5.00
22 07 19 00-0853 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.48 4.61	5.07
22 07 19 00-0854 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.68 4.74	5.21
22 07 19 00-0855 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.17 4.93	5.43
22 07 19 00-0856 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.77 5.06	5.56
22 07 19 00-0857 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	27.24 5.44	5.98
22 07 19 00-0858 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	34.22 6.14	6.75
<b>22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)</b>		
22 07 19 00-0860 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.92 4.74	5.39
22 07 19 00-0861 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.30 4.74	5.39
22 07 19 00-0862 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.89 4.80	5.45
22 07 19 00-0863 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.37 4.86	5.52
22 07 19 00-0864 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.81 4.93	5.60
22 07 19 00-0865 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.51 5.09	5.78
22 07 19 00-0866 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	26.36 5.28	6.00
22 07 19 00-0867 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	28.89 5.44	6.18
22 07 19 00-0868 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	32.51 5.79	6.58
22 07 19 00-0869 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	38.14 6.56	7.45
22 07 19 00-0870 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	42.63 7.31	8.32
22 07 19 00-0871 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	51.48 8.43	9.58
22 07 19 00-0872 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	61.34 10.48	11.92
22 07 19 00-0873 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	68.03 11.39	12.53
22 07 19 00-0874 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	74.98 12.72	14.00
22 07 19 00-0875 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	85.34 15.05	16.55
22 07 19 00-0876 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	95.25 16.67	18.32
22 07 19 00-0877 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation ..... <i>For Work In Restricted Working Space, Add</i>	117.65 18.46	20.30
<b>22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)</b>		
22 07 19 00-0879 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.25 5.06	5.56
22 07 19 00-0880 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.84 5.06	5.56
22 07 19 00-0881 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.61 5.12	5.62
22 07 19 00-0882 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	24.75 5.18	5.70
22 07 19 00-0883 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	25.89 5.25	5.77
22 07 19 00-0884 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	28.72 5.44	5.98
22 07 19 00-0885 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	30.07 5.63	6.20
22 07 19 00-0886 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	32.15 5.82	6.41
22 07 19 00-0887 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	35.97 6.14	6.76
22 07 19 00-0888 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	42.83 6.98	7.67
22 07 19 00-0889 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	47.69 7.78	8.56
22 07 19 00-0890 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation ..... <i>For Work In Restricted Working Space, Add</i>	57.77 8.97	9.86

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation .....	71.58	12.27
<i>For Work In Restricted Working Space, Add</i>	11.15	
22 07 19 00-0892 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation .....	76.62	13.38
<i>For Work In Restricted Working Space, Add</i>	12.17	
22 07 19 00-0893 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation .....	91.20	17.11
<i>For Work In Restricted Working Space, Add</i>	15.56	
22 07 19 00-0894 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation .....	99.09	17.97
<i>For Work In Restricted Working Space, Add</i>	16.33	
22 07 19 00-0895 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation .....	109.94	20.53
<i>For Work In Restricted Working Space, Add</i>	18.67	
22 07 19 00-0896 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation .....	137.44	24.81
<i>For Work In Restricted Working Space, Add</i>	22.55	
<b>22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)</b>		
22 07 19 00-0898 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	26.68	6.03
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0899 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	27.66	6.02
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0900 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	28.96	6.12
<i>For Work In Restricted Working Space, Add</i>	5.57	
22 07 19 00-0901 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	30.09	6.17
<i>For Work In Restricted Working Space, Add</i>	5.61	
22 07 19 00-0902 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	31.24	6.22
<i>For Work In Restricted Working Space, Add</i>	5.65	
22 07 19 00-0903 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	33.39	6.47
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0904 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	35.44	6.70
<i>For Work In Restricted Working Space, Add</i>	6.09	
22 07 19 00-0905 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	38.34	6.93
<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0906 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	42.75	7.31
<i>For Work In Restricted Working Space, Add</i>	6.65	
22 07 19 00-0907 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	50.92	8.32
<i>For Work In Restricted Working Space, Add</i>	7.56	
22 07 19 00-0908 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	56.74	9.27
<i>For Work In Restricted Working Space, Add</i>	8.42	
22 07 19 00-0909 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	64.78	10.68
<i>For Work In Restricted Working Space, Add</i>	9.71	
22 07 19 00-0910 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	80.65	13.28
<i>For Work In Restricted Working Space, Add</i>	12.07	
22 07 19 00-0911 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	84.41	14.49
<i>For Work In Restricted Working Space, Add</i>	13.18	
22 07 19 00-0912 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	100.17	18.52
<i>For Work In Restricted Working Space, Add</i>	16.84	
22 07 19 00-0913 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	108.61	19.45
<i>For Work In Restricted Working Space, Add</i>	17.68	
22 07 19 00-0914 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	124.82	22.23
<i>For Work In Restricted Working Space, Add</i>	20.21	
22 07 19 00-0915 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	155.88	26.87
<i>For Work In Restricted Working Space, Add</i>	24.42	
<b>22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)</b>		
22 07 19 00-0917 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	31.84	6.42
<i>For Work In Restricted Working Space, Add</i>	5.83	
22 07 19 00-0918 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation .....	32.43	6.42
<i>For Work In Restricted Working Space, Add</i>	5.83	
22 07 19 00-0919 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation .....	33.34	6.52
<i>For Work In Restricted Working Space, Add</i>	5.93	
22 07 19 00-0920 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation .....	34.08	6.56
<i>For Work In Restricted Working Space, Add</i>	5.97	
22 07 19 00-0921 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	34.85	6.62
<i>For Work In Restricted Working Space, Add</i>	6.02	
22 07 19 00-0922 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation .....	37.36	6.89
<i>For Work In Restricted Working Space, Add</i>	6.26	
22 07 19 00-0923 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	39.74	7.13
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 07 19 00-0924 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation .....	44.82	7.38
<i>For Work In Restricted Working Space, Add</i>	6.70	
22 07 19 00-0925 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation .....	50.88	7.77
<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0926 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation .....	55.86	8.84
<i>For Work In Restricted Working Space, Add</i>	8.04	
22 07 19 00-0927 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation .....	63.03	9.85
<i>For Work In Restricted Working Space, Add</i>	8.96	
22 07 19 00-0928 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation .....	75.03	11.36
<i>For Work In Restricted Working Space, Add</i>	10.33	
22 07 19 00-0929 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation .....	87.55	14.13
<i>For Work In Restricted Working Space, Add</i>	12.84	
22 07 19 00-0930 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation .....	93.87	15.41
<i>For Work In Restricted Working Space, Add</i>	14.02	
22 07 19 00-0931 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation .....	112.63	19.71
<i>For Work In Restricted Working Space, Add</i>	17.92	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation .....	120.40	20.69
<i>For Work In Restricted Working Space, Add</i>	18.82	
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation .....	140.83	23.65
<i>For Work In Restricted Working Space, Add</i>	21.50	
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation .....	172.02	28.58
<i>For Work In Restricted Working Space, Add</i>	25.98	
<b>22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation</b> <small>(22 07 19 00-0847)</small>		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	38.36	7.77
<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	39.11	7.77
<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	40.02	7.82
<i>For Work In Restricted Working Space, Add</i>	7.12	
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	40.91	7.87
<i>For Work In Restricted Working Space, Add</i>	7.16	
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	41.97	7.97
<i>For Work In Restricted Working Space, Add</i>	7.25	
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	45.96	8.26
<i>For Work In Restricted Working Space, Add</i>	7.50	
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	49.98	8.54
<i>For Work In Restricted Working Space, Add</i>	7.76	
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	52.73	8.84
<i>For Work In Restricted Working Space, Add</i>	8.04	
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	56.41	9.35
<i>For Work In Restricted Working Space, Add</i>	8.49	
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	64.87	10.61
<i>For Work In Restricted Working Space, Add</i>	9.64	
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	73.68	11.82
<i>For Work In Restricted Working Space, Add</i>	10.74	
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	87.91	13.64
<i>For Work In Restricted Working Space, Add</i>	12.40	
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	104.22	16.95
<i>For Work In Restricted Working Space, Add</i>	15.41	
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	109.05	18.50
<i>For Work In Restricted Working Space, Add</i>	16.82	
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	131.33	23.65
<i>For Work In Restricted Working Space, Add</i>	21.50	
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	143.87	24.84
<i>For Work In Restricted Working Space, Add</i>	22.58	
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	163.86	28.40
<i>For Work In Restricted Working Space, Add</i>	25.82	
22 07 19 00-0953 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	200.97	34.29
<i>For Work In Restricted Working Space, Add</i>	31.18	
<b>22 07 19 00-0954 4" Thick Foamglas Pipe Insulation</b> <small>(22 07 19 00-0847)</small>		
22 07 19 00-0955 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	46.75	9.55
<i>For Work In Restricted Working Space, Add</i>	8.69	
22 07 19 00-0956 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation .....	47.71	9.55
<i>For Work In Restricted Working Space, Add</i>	8.69	
22 07 19 00-0957 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation .....	49.18	9.71
<i>For Work In Restricted Working Space, Add</i>	8.84	
22 07 19 00-0958 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation .....	50.48	9.83
<i>For Work In Restricted Working Space, Add</i>	8.94	
22 07 19 00-0959 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	52.39	10.15
<i>For Work In Restricted Working Space, Add</i>	9.22	
22 07 19 00-0960 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation .....	56.39	10.45
<i>For Work In Restricted Working Space, Add</i>	9.50	
22 07 19 00-0961 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	59.93	10.62
<i>For Work In Restricted Working Space, Add</i>	9.65	
22 07 19 00-0962 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation .....	62.85	11.01
<i>For Work In Restricted Working Space, Add</i>	10.01	
22 07 19 00-0963 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation .....	68.79	12.28
<i>For Work In Restricted Working Space, Add</i>	11.16	
22 07 19 00-0964 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation .....	79.19	13.18
<i>For Work In Restricted Working Space, Add</i>	11.99	
22 07 19 00-0965 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation .....	89.17	14.30
<i>For Work In Restricted Working Space, Add</i>	12.99	
22 07 19 00-0966 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation .....	102.36	16.98
<i>For Work In Restricted Working Space, Add</i>	15.44	
22 07 19 00-0967 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation .....	120.08	21.10
<i>For Work In Restricted Working Space, Add</i>	19.17	
22 07 19 00-0968 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation .....	130.61	23.04
<i>For Work In Restricted Working Space, Add</i>	20.94	
22 07 19 00-0969 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation .....	155.86	29.45
<i>For Work In Restricted Working Space, Add</i>	26.78	
22 07 19 00-0970 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation .....	172.67	30.87
<i>For Work In Restricted Working Space, Add</i>	28.06	
22 07 19 00-0971 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation .....	193.84	35.32
<i>For Work In Restricted Working Space, Add</i>	32.12	
22 07 19 00-0972 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation .....	245.02	42.69
<i>For Work In Restricted Working Space, Add</i>	38.80	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0973			<b>Flexible Polyethylene Tubing Closed Cell Foam Insulation</b> (22 07 19) Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0974			<b>3/8" Wall Flexible Polyethylene Tubing Foam Insulation</b> (22 07 19 00-0973)		
22 07 19 00-0975	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....6.53 <i>For Work In Restricted Working Space, Add</i> 1.79	6.53	2.98
22 07 19 00-0976	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....6.54 <i>For Work In Restricted Working Space, Add</i> 1.79	6.54	2.98
22 07 19 00-0977	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....6.83 <i>For Work In Restricted Working Space, Add</i> 1.85	6.83	3.09
22 07 19 00-0978	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.13 <i>For Work In Restricted Working Space, Add</i> 1.92	7.13	3.19
22 07 19 00-0979	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.44 <i>For Work In Restricted Working Space, Add</i> 1.94	7.44	3.25
22 07 19 00-0980	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.82 <i>For Work In Restricted Working Space, Add</i> 1.98	7.82	3.30
22 07 19 00-0981	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.98 <i>For Work In Restricted Working Space, Add</i> 1.99	7.98	3.30
22 07 19 00-0982	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.45 <i>For Work In Restricted Working Space, Add</i> 2.00	8.45	3.30
22 07 19 00-0983	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.30 <i>For Work In Restricted Working Space, Add</i> 2.06	9.30	3.40
22 07 19 00-0984	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.67 <i>For Work In Restricted Working Space, Add</i> 2.09	9.67	3.46
22 07 19 00-0985			<b>1/2" Wall Flexible Polyethylene Tubing Foam Insulation</b> (22 07 19 00-0973)		
22 07 19 00-0986	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.31 <i>For Work In Restricted Working Space, Add</i> 1.94	7.31	3.25
22 07 19 00-0987	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.41 <i>For Work In Restricted Working Space, Add</i> 1.96	7.41	3.25
22 07 19 00-0988	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.55 <i>For Work In Restricted Working Space, Add</i> 1.98	7.55	3.30
22 07 19 00-0989	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....7.74 <i>For Work In Restricted Working Space, Add</i> 1.99	7.74	3.32
22 07 19 00-0990	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.20 <i>For Work In Restricted Working Space, Add</i> 2.04	8.20	3.40
22 07 19 00-0991	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.61 <i>For Work In Restricted Working Space, Add</i> 2.07	8.61	3.46
22 07 19 00-0992	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.07 <i>For Work In Restricted Working Space, Add</i> 2.10	9.07	3.50
22 07 19 00-0993	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.65 <i>For Work In Restricted Working Space, Add</i> 2.13	9.65	3.55
22 07 19 00-0994	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....10.65 <i>For Work In Restricted Working Space, Add</i> 2.20	10.65	3.66
22 07 19 00-0995	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....11.71 <i>For Work In Restricted Working Space, Add</i> 2.23	11.71	3.71
22 07 19 00-0996	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....12.73 <i>For Work In Restricted Working Space, Add</i> 2.26	12.73	3.76
22 07 19 00-0997	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....13.33 <i>For Work In Restricted Working Space, Add</i> 2.29	13.33	3.81
22 07 19 00-0998			<b>3/4" Wall Flexible Polyethylene Tubing Foam Insulation</b> (22 07 19 00-0973)		
22 07 19 00-0999	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.24 <i>For Work In Restricted Working Space, Add</i> 2.10	8.24	3.50
22 07 19 00-1000	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.34 <i>For Work In Restricted Working Space, Add</i> 2.13	8.34	3.55
22 07 19 00-1001	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....8.98 <i>For Work In Restricted Working Space, Add</i> 2.20	8.98	3.66
22 07 19 00-1002	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.26 <i>For Work In Restricted Working Space, Add</i> 2.23	9.26	3.71
22 07 19 00-1003	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....10.08 <i>For Work In Restricted Working Space, Add</i> 2.29	10.08	3.81
22 07 19 00-1004	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....10.97 <i>For Work In Restricted Working Space, Add</i> 2.32	10.97	3.87
22 07 19 00-1005	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....11.37 <i>For Work In Restricted Working Space, Add</i> 2.33	11.37	3.89
22 07 19 00-1006	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....13.05 <i>For Work In Restricted Working Space, Add</i> 2.35	13.05	3.92
22 07 19 00-1007	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....15.32 <i>For Work In Restricted Working Space, Add</i> 2.42	15.32	4.02
22 07 19 00-1008	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....15.42 <i>For Work In Restricted Working Space, Add</i> 2.45	15.42	4.08
22 07 19 00-1009	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....17.08 <i>For Work In Restricted Working Space, Add</i> 2.48	17.08	4.13
22 07 19 00-1010	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....17.75 <i>For Work In Restricted Working Space, Add</i> 2.51	17.75	4.18
22 07 19 00-1011			<b>1" Wall Flexible Polyethylene Tubing Foam Insulation</b> (22 07 19 00-0973)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.48 2.32	3.87
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.77 2.35	3.92
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.72 2.42	4.02
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.00 2.45	4.08
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.49 2.51	4.18
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.17 2.97	4.29
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.45 2.60	4.34
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.91 2.63	4.39
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.91 2.70	4.49
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.81 2.73	4.55
<b>22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small>		
<i>Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</i>		
<b>22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-1022)</small>		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	7.26 1.79	2.98
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	7.47 1.79	2.98
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	7.81 1.85	3.09
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.04 1.88	3.14
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.28 1.92	3.19
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.62 1.94	3.25
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.92 1.98	3.30
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.30 1.99	3.30
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.62 2.00	3.30
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.95 2.01	3.35
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.36 2.04	3.40
22 07 19 00-1035 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.77 2.06	3.40
22 07 19 00-1036 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.04 2.07	3.46
22 07 19 00-1037 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.44 2.09	3.46
22 07 19 00-1038 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.39 2.10	3.50
22 07 19 00-1039 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.47 2.13	3.55
22 07 19 00-1040 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.72 2.15	3.57
<b>22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-1022)</small>		
22 07 19 00-1042 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.46 1.94	3.25
22 07 19 00-1043 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.62 1.96	3.25
22 07 19 00-1044 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	8.79 1.98	3.30
22 07 19 00-1045 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.09 1.99	3.30
22 07 19 00-1046 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.33 1.99	3.30
22 07 19 00-1047 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.81 2.04	3.40
22 07 19 00-1048 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.32 2.07	3.46
22 07 19 00-1049 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.75 2.10	3.50
22 07 19 00-1050 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.25 2.12	3.53
22 07 19 00-1051 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.64 2.13	3.55

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1052	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.22	3.61
			<i>For Work In Restricted Working Space, Add</i>	2.17	
22 07 19 00-1053	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.14	3.66
			<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1054	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.84	3.69
			<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-1055	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.42	3.71
			<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1056	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.85	3.74
			<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1057	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	16.20	3.76
			<i>For Work In Restricted Working Space, Add</i>	2.26	
22 07 19 00-1058	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	18.03	3.81
			<i>For Work In Restricted Working Space, Add</i>	2.29	
22 07 19 00-1059	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	18.44	3.84
			<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1060	LF		5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	20.27	3.87
			<i>For Work In Restricted Working Space, Add</i>	2.32	
22 07 19 00-1061	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	22.30	3.97
			<i>For Work In Restricted Working Space, Add</i>	2.38	
22 07 19 00-1062	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	24.59	4.08
			<i>For Work In Restricted Working Space, Add</i>	2.45	
<b>22 07 19 00-1063</b>			<b>3/4" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-1022)</small>		
22 07 19 00-1064	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.18	3.50
			<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-1065	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.55	3.55
			<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-1066	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.07	3.66
			<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1067	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.44	3.69
			<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-1068	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.58	3.71
			<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1069	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.42	3.81
			<i>For Work In Restricted Working Space, Add</i>	2.29	
22 07 19 00-1070	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.16	3.87
			<i>For Work In Restricted Working Space, Add</i>	2.32	
22 07 19 00-1071	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.89	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1072	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.11	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1073	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.38	3.95
			<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1074	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.32	3.97
			<i>For Work In Restricted Working Space, Add</i>	2.39	
22 07 19 00-1075	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.76	4.02
			<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1076	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	16.84	4.05
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-1077	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	17.57	4.08
			<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1078	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	18.70	4.11
			<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-1079	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	19.12	4.13
			<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-1080	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	20.81	4.18
			<i>For Work In Restricted Working Space, Add</i>	2.51	
22 07 19 00-1081	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	22.18	4.21
			<i>For Work In Restricted Working Space, Add</i>	2.52	
22 07 19 00-1082	LF		5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	24.53	4.23
			<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1083	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	26.96	4.29
			<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1084	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	29.83	4.39
			<i>For Work In Restricted Working Space, Add</i>	2.63	
<b>22 07 19 00-1085</b>			<b>1" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-1022)</small>		
22 07 19 00-1086	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.38	3.86
			<i>For Work In Restricted Working Space, Add</i>	2.32	
22 07 19 00-1087	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.86	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1088	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.42	4.02
			<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1089	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.01	4.05
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-1090	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.51	4.08
			<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1091	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.29	4.18
			<i>For Work In Restricted Working Space, Add</i>	2.51	
22 07 19 00-1092	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	16.58	4.29
			<i>For Work In Restricted Working Space, Add</i>	2.57	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1093 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....17.25 <i>For Work In Restricted Working Space, Add</i>	2.60	4.29
22 07 19 00-1094 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....18.22 <i>For Work In Restricted Working Space, Add</i>	2.62	4.34
22 07 19 00-1095 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....18.55 <i>For Work In Restricted Working Space, Add</i>	2.63	4.39
22 07 19 00-1096 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....20.65 <i>For Work In Restricted Working Space, Add</i>	2.67	4.44
22 07 19 00-1097 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....22.28 <i>For Work In Restricted Working Space, Add</i>	2.70	4.49
22 07 19 00-1098 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....24.40 <i>For Work In Restricted Working Space, Add</i>	2.72	4.52
22 07 19 00-1099 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....24.99 <i>For Work In Restricted Working Space, Add</i>	2.73	4.55
22 07 19 00-1100 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....26.09 <i>For Work In Restricted Working Space, Add</i>	2.75	4.58
22 07 19 00-1101 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....26.60 <i>For Work In Restricted Working Space, Add</i>	2.76	4.60
22 07 19 00-1102 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....30.57 <i>For Work In Restricted Working Space, Add</i>	2.82	4.71
22 07 19 00-1103 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....33.27 <i>For Work In Restricted Working Space, Add</i>	2.85	4.76
22 07 19 00-1104 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....37.34 <i>For Work In Restricted Working Space, Add</i>	2.88	4.81
22 07 19 00-1105 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....41.56 <i>For Work In Restricted Working Space, Add</i>	2.95	4.92
<b>22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)</b>		
22 07 19 00-1107 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....21.85 <i>For Work In Restricted Working Space, Add</i>	2.60	4.33
22 07 19 00-1108 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....22.43 <i>For Work In Restricted Working Space, Add</i>	2.66	4.42
22 07 19 00-1109 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....23.03 <i>For Work In Restricted Working Space, Add</i>	2.67	4.44
22 07 19 00-1110 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....23.64 <i>For Work In Restricted Working Space, Add</i>	2.69	4.48
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....24.34 <i>For Work In Restricted Working Space, Add</i>	2.75	4.59
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....25.50 <i>For Work In Restricted Working Space, Add</i>	2.85	4.76
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....27.47 <i>For Work In Restricted Working Space, Add</i>	2.87	4.69
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....29.14 <i>For Work In Restricted Working Space, Add</i>	2.91	4.80
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....30.14 <i>For Work In Restricted Working Space, Add</i>	2.95	4.92
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....33.47 <i>For Work In Restricted Working Space, Add</i>	2.98	4.98
22 07 19 00-1117 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....36.64 <i>For Work In Restricted Working Space, Add</i>	3.01	5.04
22 07 19 00-1118 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....38.11 <i>For Work In Restricted Working Space, Add</i>	3.03	5.06
22 07 19 00-1119 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....39.57 <i>For Work In Restricted Working Space, Add</i>	3.05	5.07
22 07 19 00-1120 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....41.31 <i>For Work In Restricted Working Space, Add</i>	3.06	5.10
22 07 19 00-1121 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....42.39 <i>For Work In Restricted Working Space, Add</i>	3.08	5.12
22 07 19 00-1122 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....48.15 <i>For Work In Restricted Working Space, Add</i>	3.17	5.31
22 07 19 00-1123 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....51.25 <i>For Work In Restricted Working Space, Add</i>	3.23	5.39
22 07 19 00-1124 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....58.96 <i>For Work In Restricted Working Space, Add</i>	3.28	5.46
22 07 19 00-1125 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....66.50 <i>For Work In Restricted Working Space, Add</i>	3.38	5.63
<b>22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)</b>		
22 07 19 00-1127 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....34.41 <i>For Work In Restricted Working Space, Add</i>	2.87	4.78
22 07 19 00-1128 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....35.94 <i>For Work In Restricted Working Space, Add</i>	2.93	4.85
22 07 19 00-1129 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....38.84 <i>For Work In Restricted Working Space, Add</i>	2.94	4.89
22 07 19 00-1130 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....39.82 <i>For Work In Restricted Working Space, Add</i>	2.95	4.93
22 07 19 00-1131 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....42.12 <i>For Work In Restricted Working Space, Add</i>	3.01	5.03
22 07 19 00-1132 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....44.73 <i>For Work In Restricted Working Space, Add</i>	3.16	5.27
22 07 19 00-1133 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....46.46 <i>For Work In Restricted Working Space, Add</i>	3.18	5.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1134 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	49.48	5.32
<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-1135 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	52.38	5.49
<i>For Work In Restricted Working Space, Add</i>	3.30	
22 07 19 00-1136 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	54.34	5.56
<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-1137 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	58.48	5.63
<i>For Work In Restricted Working Space, Add</i>	3.36	
22 07 19 00-1138 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	58.94	5.64
<i>For Work In Restricted Working Space, Add</i>	3.38	
22 07 19 00-1139 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	62.84	5.65
<i>For Work In Restricted Working Space, Add</i>	3.40	
22 07 19 00-1140 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	65.54	5.67
<i>For Work In Restricted Working Space, Add</i>	3.41	
22 07 19 00-1141 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	68.44	5.70
<i>For Work In Restricted Working Space, Add</i>	3.42	
22 07 19 00-1142 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	77.74	5.97
<i>For Work In Restricted Working Space, Add</i>	3.57	
22 07 19 00-1143 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	83.16	6.09
<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-1144 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	84.60	6.21
<i>For Work In Restricted Working Space, Add</i>	3.73	
22 07 19 00-1145 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	95.92	6.46
<i>For Work In Restricted Working Space, Add</i>	3.87	
<b>22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small>		
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
<b>22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-1146)</small>		
22 07 19 00-1148 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	6.44	2.98
<i>For Work In Restricted Working Space, Add</i>	1.79	
22 07 19 00-1149 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	6.52	2.98
<i>For Work In Restricted Working Space, Add</i>	1.79	
22 07 19 00-1150 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	6.76	3.09
<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-1151 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.07	3.19
<i>For Work In Restricted Working Space, Add</i>	1.92	
22 07 19 00-1152 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.25	3.25
<i>For Work In Restricted Working Space, Add</i>	1.94	
22 07 19 00-1153 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.58	3.30
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-1154 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.83	3.30
<i>For Work In Restricted Working Space, Add</i>	1.99	
22 07 19 00-1155 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	8.01	3.40
<i>For Work In Restricted Working Space, Add</i>	2.00	
22 07 19 00-1156 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	8.83	3.40
<i>For Work In Restricted Working Space, Add</i>	2.06	
22 07 19 00-1157 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	9.54	3.46
<i>For Work In Restricted Working Space, Add</i>	2.09	
22 07 19 00-1158 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	11.39	3.55
<i>For Work In Restricted Working Space, Add</i>	2.13	
<b>22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-1146)</small>		
22 07 19 00-1160 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.23	3.25
<i>For Work In Restricted Working Space, Add</i>	1.94	
22 07 19 00-1161 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.30	3.25
<i>For Work In Restricted Working Space, Add</i>	1.96	
22 07 19 00-1162 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.45	3.30
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-1163 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.65	3.30
<i>For Work In Restricted Working Space, Add</i>	1.99	
22 07 19 00-1164 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	7.90	3.40
<i>For Work In Restricted Working Space, Add</i>	2.04	
22 07 19 00-1165 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	8.26	3.46
<i>For Work In Restricted Working Space, Add</i>	2.07	
22 07 19 00-1166 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	8.66	3.50
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-1167 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	9.04	3.55
<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-1168 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	9.91	3.66
<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1169 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	10.67	3.71
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1170 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	12.13	3.81
<i>For Work In Restricted Working Space, Add</i>	2.29	
<b>22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-1146)</small>		
22 07 19 00-1172 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....	8.13	3.50
<i>For Work In Restricted Working Space, Add</i>	2.10	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1173 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.41	3.55
<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-1174 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.75	3.66
<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1175 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.27	3.71
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1176 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.76	3.81
<i>For Work In Restricted Working Space, Add</i>	2.29	
22 07 19 00-1177 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.61	3.87
<i>For Work In Restricted Working Space, Add</i>	2.32	
22 07 19 00-1178 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.16	3.87
<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1179 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.79	3.92
<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1180 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.02	4.02
<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1181 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.13	4.08
<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1182 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.26	4.18
<i>For Work In Restricted Working Space, Add</i>	2.51	

**22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation** (22 07 19 00-1146)

22 07 19 00-1184 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.69	3.87
<i>For Work In Restricted Working Space, Add</i>	2.32	
22 07 19 00-1185 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.84	3.92
<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1186 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.18	4.02
<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1187 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.94	4.08
<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1188 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.58	4.18
<i>For Work In Restricted Working Space, Add</i>	2.51	
22 07 19 00-1189 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.22	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1190 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.84	4.29
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1191 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.25	4.39
<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-1192 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.13	4.49
<i>For Work In Restricted Working Space, Add</i>	2.70	
22 07 19 00-1193 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.47	4.55
<i>For Work In Restricted Working Space, Add</i>	2.73	

**22 10 Plumbing Piping** (22)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**22 11 Facility Water Distribution** (22 10)

**22 11 16 Domestic Water Piping** (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**22 11 16 00-0001 Galvanized Steel Pipe Assemblies** (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	15.15	3.69
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.44	
<i>For Work In Restricted Working Space, Add</i>	3.68	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	3.76	
22 11 16 00-0003 LF 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	16.43	3.97
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.52	
<i>For Work In Restricted Working Space, Add</i>	3.89	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.15	
22 11 16 00-0004 LF 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	18.24	4.35
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.66	
<i>For Work In Restricted Working Space, Add</i>	4.16	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.74	
22 11 16 00-0005 LF 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	21.05	4.53
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.95	
<i>For Work In Restricted Working Space, Add</i>	4.42	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.79	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	22.45	5.36
		<i>For ASTM 120, Deduct</i>	-1.07	
		<i>For Work In Restricted Working Space, Add</i>	4.61	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.27	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	26.75	6.47
		<i>For ASTM 120, Deduct</i>	-1.39	
		<i>For Work In Restricted Working Space, Add</i>	5.24	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.67	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	38.24	7.66
		<i>For ASTM 120, Deduct</i>	-2.67	
		<i>For Work In Restricted Working Space, Add</i>	6.14	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	12.09	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	46.59	10.25
		<i>For ASTM 120, Deduct</i>	-3.27	
		<i>For Work In Restricted Working Space, Add</i>	7.44	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	14.77	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	70.81	11.58
		<i>For ASTM 120, Deduct</i>	-6.56	
		<i>For Work In Restricted Working Space, Add</i>	8.12	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	25.10	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	138.55	14.80
		<i>For ASTM 120, Deduct</i>	-15.88	
		<i>For Work In Restricted Working Space, Add</i>	9.80	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	54.18	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	154.46	17.50
		<i>For ASTM 120, Deduct</i>	-17.60	
		<i>For Work In Restricted Working Space, Add</i>	11.14	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	60.22	
22 11 16 00-0013		<b>Galvanized Steel Pipe And Threaded Fittings</b> <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014		<b>Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF	1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	6.74	3.69
		<i>For ASTM 120, Deduct</i>	-0.17	
		<i>For Work In Restricted Working Space, Add</i>	1.68	
		<i>For Schedule 80 Pipe, Add</i>	1.11	
22 11 16 00-0016	LF	3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	7.47	3.97
		<i>For ASTM 120, Deduct</i>	-0.23	
		<i>For Work In Restricted Working Space, Add</i>	1.79	
		<i>For Schedule 80 Pipe, Add</i>	1.32	
22 11 16 00-0017	LF	1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	8.71	4.35
		<i>For ASTM 120, Deduct</i>	-0.34	
		<i>For Work In Restricted Working Space, Add</i>	1.94	
		<i>For Schedule 80 Pipe, Add</i>	1.73	
22 11 16 00-0018	LF	1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	9.89	4.53
		<i>For ASTM 120, Deduct</i>	-0.46	
		<i>For Work In Restricted Working Space, Add</i>	2.05	
		<i>For Schedule 80 Pipe, Add</i>	2.15	
22 11 16 00-0019	LF	1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	11.68	5.36
		<i>For ASTM 120, Deduct</i>	-0.55	
		<i>For Work In Restricted Working Space, Add</i>	2.41	
		<i>For Schedule 80 Pipe, Add</i>	2.56	
22 11 16 00-0020	LF	2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	14.62	6.47
		<i>For ASTM 120, Deduct</i>	-0.74	
		<i>For Work In Restricted Working Space, Add</i>	2.92	
		<i>For Schedule 80 Pipe, Add</i>	3.32	
22 11 16 00-0021	LF	2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	19.32	7.66
		<i>For ASTM 120, Deduct</i>	-1.17	
		<i>For Work In Restricted Working Space, Add</i>	3.47	
		<i>For Schedule 80 Pipe, Add</i>	4.88	
22 11 16 00-0022	LF	3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	25.56	10.25
		<i>For ASTM 120, Deduct</i>	-1.53	
		<i>For Work In Restricted Working Space, Add</i>	4.62	
		<i>For Schedule 80 Pipe, Add</i>	6.42	
22 11 16 00-0023	LF	4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	31.89	11.58
		<i>For ASTM 120, Deduct</i>	-2.17	
		<i>For Work In Restricted Working Space, Add</i>	5.23	
		<i>For Schedule 80 Pipe, Add</i>	8.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	41.57	14.80
			<i>For ASTM 120, Deduct</i>	-2.91	
			<i>For Work In Restricted Working Space, Add</i>	6.65	
			<i>For Schedule 80 Pipe, Add</i>	11.53	
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	51.40	17.50
			<i>For ASTM 120, Deduct</i>	-3.78	
			<i>For Work In Restricted Working Space, Add</i>	7.87	
			<i>For Schedule 80 Pipe, Add</i>	14.71	
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	58.86	21.16
			<i>For ASTM 120, Deduct</i>	-4.08	
			<i>For Work In Restricted Working Space, Add</i>	9.50	
			<i>For Schedule 80 Pipe, Add</i>	16.22	
<b>22 11 16 00-0027</b>			<b>Seamless, Threaded And Coupled, Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small>		
			Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	9.56	3.69
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	1.68	
			<i>For Schedule 80 Pipe, Add</i>	2.46	
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	10.71	3.97
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	1.79	
			<i>For Schedule 80 Pipe, Add</i>	2.88	
22 11 16 00-0030	LF		1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	11.99	4.35
			<i>For ASTM 120, Deduct</i>	-0.83	
			<i>For Work In Restricted Working Space, Add</i>	1.94	
			<i>For Schedule 80 Pipe, Add</i>	3.30	
22 11 16 00-0031	LF		1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	13.79	4.53
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	2.05	
			<i>For Schedule 80 Pipe, Add</i>	4.02	
22 11 16 00-0032	LF		1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	15.97	5.36
			<i>For ASTM 120, Deduct</i>	-1.19	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
			<i>For Schedule 80 Pipe, Add</i>	4.61	
22 11 16 00-0033	LF		2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	18.76	6.47
			<i>For ASTM 120, Deduct</i>	-1.36	
			<i>For Work In Restricted Working Space, Add</i>	2.92	
			<i>For Schedule 80 Pipe, Add</i>	5.31	
22 11 16 00-0034	LF		2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	26.68	7.66
			<i>For ASTM 120, Deduct</i>	-2.27	
			<i>For Work In Restricted Working Space, Add</i>	3.47	
			<i>For Schedule 80 Pipe, Add</i>	8.42	
22 11 16 00-0035	LF		3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	33.89	10.25
			<i>For ASTM 120, Deduct</i>	-2.78	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Pipe, Add</i>	10.42	
22 11 16 00-0036	LF		4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	43.87	11.58
			<i>For ASTM 120, Deduct</i>	-3.97	
			<i>For Work In Restricted Working Space, Add</i>	5.23	
			<i>For Schedule 80 Pipe, Add</i>	14.44	
22 11 16 00-0037	LF		5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	56.68	14.80
			<i>For ASTM 120, Deduct</i>	-5.18	
			<i>For Work In Restricted Working Space, Add</i>	6.65	
			<i>For Schedule 80 Pipe, Add</i>	18.79	
22 11 16 00-0038	LF		6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	70.38	17.50
			<i>For ASTM 120, Deduct</i>	-6.62	
			<i>For Work In Restricted Working Space, Add</i>	7.87	
			<i>For Schedule 80 Pipe, Add</i>	23.82	
<b>22 11 16 00-0039</b>			<b>Galvanized Malleable Iron 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	29.35	16.44
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For 300 LB Rating, Add</i>	17.56	
22 11 16 00-0041	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	33.38	18.38
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	8.27	
			<i>For 300 LB Rating, Add</i>	21.41	
22 11 16 00-0042	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	41.54	20.50
			<i>For ASTM 120, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	9.23	
			<i>For 300 LB Rating, Add</i>	38.43	
22 11 16 00-0043	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	51.86	23.28
			<i>For ASTM 120, Deduct</i>	-2.55	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
			<i>For 300 LB Rating, Add</i>	59.93	
22 11 16 00-0044	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	61.50	26.22
			<i>For ASTM 120, Deduct</i>	-3.33	
			<i>For Work In Restricted Working Space, Add</i>	11.79	
			<i>For 300 LB Rating, Add</i>	77.84	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0045	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	86.28	33.34
			<i>For ASTM 120, Deduct</i>	-5.45	
			<i>For Work In Restricted Working Space, Add</i>	14.98	
			<i>For 300 LB Rating, Add</i>	126.62	
22 11 16 00-0046	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	169.01	49.32
			<i>For ASTM 120, Deduct</i>	-14.27	
			<i>For Work In Restricted Working Space, Add</i>	22.16	
			<i>For 300 LB Rating, Add</i>	327.87	
22 11 16 00-0047	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	254.06	64.83
			<i>For ASTM 120, Deduct</i>	-23.53	
			<i>For Work In Restricted Working Space, Add</i>	29.16	
			<i>For 300 LB Rating, Add</i>	539.12	
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	378.22	67.74
			<i>For ASTM 120, Deduct</i>	-41.50	
			<i>For Work In Restricted Working Space, Add</i>	30.47	
			<i>For 300 LB Rating, Add</i>	946.67	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,300.69	70.70
			<i>For ASTM 120, Deduct</i>	-179.20	
			<i>For Work In Restricted Working Space, Add</i>	31.80	
			<i>For 300 LB Rating, Add</i>	4,068.31	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,212.18	73.92
			<i>For ASTM 120, Deduct</i>	-165.21	
			<i>For Work In Restricted Working Space, Add</i>	33.24	
			<i>For 300 LB Rating, Add</i>	3,751.31	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,444.53	77.24
			<i>For ASTM 120, Deduct</i>	-199.31	
			<i>For Work In Restricted Working Space, Add</i>	34.74	
			<i>For 300 LB Rating, Add</i>	4,524.63	
<b>22 11 16 00-0052</b>			<b>Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)</b>		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	36.20	17.36
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	7.83	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	42.13	19.48
			<i>For ASTM 120, Deduct</i>	-1.94	
			<i>For Work In Restricted Working Space, Add</i>	8.75	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	41.45	18.47
			<i>For ASTM 120, Deduct</i>	-2.06	
			<i>For Work In Restricted Working Space, Add</i>	8.31	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	54.56	21.89
			<i>For ASTM 120, Deduct</i>	-3.26	
			<i>For Work In Restricted Working Space, Add</i>	9.84	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	57.32	20.78
			<i>For ASTM 120, Deduct</i>	-3.92	
			<i>For Work In Restricted Working Space, Add</i>	9.36	
22 11 16 00-0058	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	57.41	19.86
			<i>For ASTM 120, Deduct</i>	-4.15	
			<i>For Work In Restricted Working Space, Add</i>	8.92	
22 11 16 00-0059	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	71.82	24.75
			<i>For ASTM 120, Deduct</i>	-5.21	
			<i>For Work In Restricted Working Space, Add</i>	11.12	
22 11 16 00-0060	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	69.78	23.37
			<i>For ASTM 120, Deduct</i>	-5.21	
			<i>For Work In Restricted Working Space, Add</i>	10.51	
22 11 16 00-0061	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	68.19	22.26
			<i>For ASTM 120, Deduct</i>	-5.21	
			<i>For Work In Restricted Working Space, Add</i>	10.03	
22 11 16 00-0062	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	85.21	29.73
			<i>For ASTM 120, Deduct</i>	-6.09	
			<i>For Work In Restricted Working Space, Add</i>	13.38	
22 11 16 00-0063	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	88.92	28.26
			<i>For ASTM 120, Deduct</i>	-6.98	
			<i>For Work In Restricted Working Space, Add</i>	12.71	
22 11 16 00-0064	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	88.64	26.88
			<i>For ASTM 120, Deduct</i>	-7.24	
			<i>For Work In Restricted Working Space, Add</i>	12.11	
22 11 16 00-0065	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	75.38	25.86
			<i>For ASTM 120, Deduct</i>	-5.49	
			<i>For Work In Restricted Working Space, Add</i>	11.63	
22 11 16 00-0066	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	199.50	41.28
			<i>For ASTM 120, Deduct</i>	-20.64	
			<i>For Work In Restricted Working Space, Add</i>	18.57	
22 11 16 00-0067	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	209.90	37.77
			<i>For ASTM 120, Deduct</i>	-23.00	
			<i>For Work In Restricted Working Space, Add</i>	16.98	
22 11 16 00-0068	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	335.65	57.07
			<i>For ASTM 120, Deduct</i>	-37.52	
			<i>For Work In Restricted Working Space, Add</i>	25.67	
22 11 16 00-0069	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	290.79	49.04
			<i>For ASTM 120, Deduct</i>	-32.58	
			<i>For Work In Restricted Working Space, Add</i>	22.07	
22 11 16 00-0070	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	662.57	64.43
			<i>For ASTM 120, Deduct</i>	-84.89	
			<i>For Work In Restricted Working Space, Add</i>	28.99	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow</b> <small>(22 11 16 00-0013)</small>			
22 11 16 00-0072	EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	30.19	16.44
	<i>For ASTM 120, Deduct</i>	-0.84	
	<i>For Work In Restricted Working Space, Add</i>	7.39	
	<i>For 300 LB Rating, Add</i>	20.42	
22 11 16 00-0073	EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	35.58	18.38
	<i>For ASTM 120, Deduct</i>	-1.20	
	<i>For Work In Restricted Working Space, Add</i>	8.27	
	<i>For 300 LB Rating, Add</i>	28.89	
22 11 16 00-0074	EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	39.82	20.50
	<i>For ASTM 120, Deduct</i>	-1.36	
	<i>For Work In Restricted Working Space, Add</i>	9.23	
	<i>For 300 LB Rating, Add</i>	32.58	
22 11 16 00-0075	EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	51.74	23.28
	<i>For ASTM 120, Deduct</i>	-2.53	
	<i>For Work In Restricted Working Space, Add</i>	10.46	
	<i>For 300 LB Rating, Add</i>	59.52	
22 11 16 00-0076	EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	59.15	26.22
	<i>For ASTM 120, Deduct</i>	-2.98	
	<i>For Work In Restricted Working Space, Add</i>	11.79	
	<i>For 300 LB Rating, Add</i>	69.85	
22 11 16 00-0077	EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	79.29	33.34
	<i>For ASTM 120, Deduct</i>	-4.41	
	<i>For Work In Restricted Working Space, Add</i>	14.98	
	<i>For 300 LB Rating, Add</i>	102.85	
22 11 16 00-0078	EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	176.05	49.32
	<i>For ASTM 120, Deduct</i>	-15.33	
	<i>For Work In Restricted Working Space, Add</i>	22.16	
	<i>For 300 LB Rating, Add</i>	351.81	
22 11 16 00-0079	EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	245.81	64.83
	<i>For ASTM 120, Deduct</i>	-22.29	
	<i>For Work In Restricted Working Space, Add</i>	29.16	
	<i>For 300 LB Rating, Add</i>	511.07	
22 11 16 00-0080	EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	350.70	67.74
	<i>For ASTM 120, Deduct</i>	-37.37	
	<i>For Work In Restricted Working Space, Add</i>	30.47	
	<i>For 300 LB Rating, Add</i>	853.10	
22 11 16 00-0081	EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,112.64	70.70
	<i>For ASTM 120, Deduct</i>	-151.00	
	<i>For Work In Restricted Working Space, Add</i>	31.80	
	<i>For 300 LB Rating, Add</i>	3,428.94	
22 11 16 00-0082	EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,324.58	73.92
	<i>For ASTM 120, Deduct</i>	-182.07	
	<i>For Work In Restricted Working Space, Add</i>	33.24	
	<i>For 300 LB Rating, Add</i>	4,133.47	
22 11 16 00-0083	EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,578.04	77.24
	<i>For ASTM 120, Deduct</i>	-219.34	
	<i>For Work In Restricted Working Space, Add</i>	34.74	
	<i>For 300 LB Rating, Add</i>	4,978.56	
<b>22 11 16 00-0084 Galvanized Malleable Iron Tees</b> <small>(22 11 16 00-0013)</small>			
22 11 16 00-0085	EA 1/2", 150 LB, Galvanized Malleable Iron Tee.....	35.09	20.50
	<i>For ASTM 120, Deduct</i>	-0.65	
	<i>For Work In Restricted Working Space, Add</i>	9.23	
	<i>For 300 LB Rating, Add</i>	16.50	
22 11 16 00-0086	EA 3/4", 150 LB, Galvanized Malleable Iron Tee.....	42.63	23.74
	<i>For ASTM 120, Deduct</i>	-1.07	
	<i>For Work In Restricted Working Space, Add</i>	10.66	
	<i>For 300 LB Rating, Add</i>	26.31	
22 11 16 00-0087	EA 1", 150 LB, Galvanized Malleable Iron Tee.....	53.47	27.98
	<i>For ASTM 120, Deduct</i>	-1.72	
	<i>For Work In Restricted Working Space, Add</i>	12.59	
	<i>For 300 LB Rating, Add</i>	41.58	
22 11 16 00-0088	EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee.....	68.16	33.34
	<i>For ASTM 120, Deduct</i>	-2.74	
	<i>For Work In Restricted Working Space, Add</i>	14.98	
	<i>For 300 LB Rating, Add</i>	65.01	
22 11 16 00-0089	EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee.....	82.25	39.71
	<i>For ASTM 120, Deduct</i>	-3.40	
	<i>For Work In Restricted Working Space, Add</i>	17.87	
	<i>For 300 LB Rating, Add</i>	80.65	
22 11 16 00-0090	EA 2", 150 LB, Galvanized Malleable Iron Tee.....	110.74	49.32
	<i>For ASTM 120, Deduct</i>	-5.53	
	<i>For Work In Restricted Working Space, Add</i>	22.16	
	<i>For 300 LB Rating, Add</i>	129.76	
22 11 16 00-0091	EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee.....	184.08	53.56
	<i>For ASTM 120, Deduct</i>	-15.57	
	<i>For Work In Restricted Working Space, Add</i>	24.09	
	<i>For 300 LB Rating, Add</i>	357.64	



<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0092 EA 3", 150 LB, Galvanized Malleable Iron Tee.....	218.90	64.83
For ASTM 120, Deduct	-18.25	
For Work In Restricted Working Space, Add	29.16	
For 300 LB Rating, Add	419.58	
22 11 16 00-0093 EA 4", 150 LB, Galvanized Malleable Iron Tee.....	416.18	85.58
For ASTM 120, Deduct	-43.18	
For Work In Restricted Working Space, Add	38.49	
For 300 LB Rating, Add	986.46	
22 11 16 00-0094 EA 5", 150 LB, Galvanized Malleable Iron Tee.....	1,057.26	101.61
For ASTM 120, Deduct	-135.73	
For Work In Restricted Working Space, Add	45.71	
For 300 LB Rating, Add	3,085.77	
22 11 16 00-0095 EA 6", 150 LB, Galvanized Malleable Iron Tee.....	1,200.49	116.15
For ASTM 120, Deduct	-153.95	
For Work In Restricted Working Space, Add	52.24	
For 300 LB Rating, Add	3,500.07	
22 11 16 00-0096 EA 8", 150 LB, Galvanized Malleable Iron Tee.....	1,428.46	137.91
For ASTM 120, Deduct	-182.93	
For Work In Restricted Working Space, Add	62.69	
For 300 LB Rating, Add	4,158.84	
<b>22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)</b>		
22 11 16 00-0098 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	40.80	20.50
For ASTM 120, Deduct	-1.50	
For Work In Restricted Working Space, Add	9.23	
For 300 LB Rating, Add	35.91	
22 11 16 00-0099 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	45.40	23.74
For ASTM 120, Deduct	-1.48	
For Work In Restricted Working Space, Add	10.66	
For 300 LB Rating, Add	35.72	
22 11 16 00-0100 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	55.87	27.98
For ASTM 120, Deduct	-2.08	
For Work In Restricted Working Space, Add	12.59	
For 300 LB Rating, Add	49.74	
22 11 16 00-0101 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	71.45	33.34
For ASTM 120, Deduct	-3.23	
For Work In Restricted Working Space, Add	14.98	
For 300 LB Rating, Add	76.20	
22 11 16 00-0102 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	86.18	39.71
For ASTM 120, Deduct	-3.99	
For Work In Restricted Working Space, Add	17.87	
For 300 LB Rating, Add	94.01	
22 11 16 00-0103 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	112.71	49.32
For ASTM 120, Deduct	-5.82	
For Work In Restricted Working Space, Add	22.16	
For 300 LB Rating, Add	136.45	
22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	217.71	53.74
For ASTM 120, Deduct	-20.57	
For Work In Restricted Working Space, Add	24.17	
For 300 LB Rating, Add	471.14	
22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	276.62	65.85
For ASTM 120, Deduct	-26.68	
For Work In Restricted Working Space, Add	29.63	
For 300 LB Rating, Add	610.68	
22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	643.94	85.58
For ASTM 120, Deduct	-77.34	
For Work In Restricted Working Space, Add	38.49	
For 300 LB Rating, Add	1,760.84	
22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,851.89	101.61
For ASTM 120, Deduct	-254.93	
For Work In Restricted Working Space, Add	45.71	
For 300 LB Rating, Add	5,787.51	
22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,530.66	116.15
For ASTM 120, Deduct	-203.48	
For Work In Restricted Working Space, Add	52.24	
For 300 LB Rating, Add	4,622.65	
22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,835.88	133.37
For ASTM 120, Deduct	-245.34	
For Work In Restricted Working Space, Add	60.08	
For 300 LB Rating, Add	5,573.12	
<b>22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)</b>		
22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling.....	28.78	16.44
For ASTM 120, Deduct	-0.62	
For Work In Restricted Working Space, Add	7.39	
For 300 LB Rating, Add	15.62	
22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling.....	32.36	18.38
For ASTM 120, Deduct	-0.72	
For Work In Restricted Working Space, Add	8.27	
For 300 LB Rating, Add	17.94	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0113	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	38.63	20.50
				<i>For ASTM 120, Deduct</i>	-1.18	
				<i>For Work In Restricted Working Space, Add</i>	9.23	
				<i>For 300 LB Rating, Add</i>	28.54	
	22 11 16 00-0114	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	45.93	23.28
				<i>For ASTM 120, Deduct</i>	-1.66	
				<i>For Work In Restricted Working Space, Add</i>	10.46	
				<i>For 300 LB Rating, Add</i>	39.76	
	22 11 16 00-0115	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	51.89	26.22
				<i>For ASTM 120, Deduct</i>	-1.89	
				<i>For Work In Restricted Working Space, Add</i>	11.79	
				<i>For 300 LB Rating, Add</i>	45.16	
	22 11 16 00-0116	EA		2", 150 LB, Galvanized Malleable Iron Coupling.....	68.33	33.34
				<i>For ASTM 120, Deduct</i>	-2.76	
				<i>For Work In Restricted Working Space, Add</i>	14.98	
				<i>For 300 LB Rating, Add</i>	65.59	
	22 11 16 00-0117	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	130.24	49.32
				<i>For ASTM 120, Deduct</i>	-8.45	
				<i>For Work In Restricted Working Space, Add</i>	22.16	
				<i>For 300 LB Rating, Add</i>	196.06	
	22 11 16 00-0118	EA		3", 150 LB, Galvanized Malleable Iron Coupling.....	172.54	64.83
				<i>For ASTM 120, Deduct</i>	-11.30	
				<i>For Work In Restricted Working Space, Add</i>	29.16	
				<i>For 300 LB Rating, Add</i>	261.95	
	22 11 16 00-0119	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	261.56	67.74
				<i>For ASTM 120, Deduct</i>	-24.00	
				<i>For Work In Restricted Working Space, Add</i>	30.47	
				<i>For 300 LB Rating, Add</i>	550.03	
	22 11 16 00-0120	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	556.47	70.70
				<i>For ASTM 120, Deduct</i>	-67.57	
				<i>For Work In Restricted Working Space, Add</i>	31.80	
				<i>For 300 LB Rating, Add</i>	1,537.96	
	22 11 16 00-0121	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	624.01	73.92
				<i>For ASTM 120, Deduct</i>	-76.98	
				<i>For Work In Restricted Working Space, Add</i>	33.24	
				<i>For 300 LB Rating, Add</i>	1,751.53	
	22 11 16 00-0122	EA		8", 150 LB, Galvanized Malleable Iron Coupling.....	734.32	77.24
				<i>For ASTM 120, Deduct</i>	-92.78	
				<i>For Work In Restricted Working Space, Add</i>	34.74	
				<i>For 300 LB Rating, Add</i>	2,109.92	
	<b>22 11 16 00-0123</b>			<b>Galvanized Malleable Iron Reducing Couplings</b> <small>(22 11 16 00-0013)</small>		
	22 11 16 00-0124	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	29.67	16.44
				<i>For ASTM 120, Deduct</i>	-0.76	
				<i>For Work In Restricted Working Space, Add</i>	7.39	
				<i>For 300 LB Rating, Add</i>	18.65	
	22 11 16 00-0125	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	32.96	18.38
				<i>For ASTM 120, Deduct</i>	-0.81	
				<i>For Work In Restricted Working Space, Add</i>	8.27	
				<i>For 300 LB Rating, Add</i>	19.98	
	22 11 16 00-0126	EA		1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	39.77	20.50
				<i>For ASTM 120, Deduct</i>	-1.35	
				<i>For Work In Restricted Working Space, Add</i>	9.23	
				<i>For 300 LB Rating, Add</i>	32.41	
	22 11 16 00-0127	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	46.48	23.28
				<i>For ASTM 120, Deduct</i>	-1.74	
				<i>For Work In Restricted Working Space, Add</i>	10.46	
				<i>For 300 LB Rating, Add</i>	41.63	
	22 11 16 00-0128	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	54.30	26.22
				<i>For ASTM 120, Deduct</i>	-2.25	
				<i>For Work In Restricted Working Space, Add</i>	11.79	
				<i>For 300 LB Rating, Add</i>	53.36	
	22 11 16 00-0129	EA		2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	70.37	33.34
				<i>For ASTM 120, Deduct</i>	-3.07	
				<i>For Work In Restricted Working Space, Add</i>	14.98	
				<i>For 300 LB Rating, Add</i>	72.53	
	22 11 16 00-0130	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	130.95	49.32
				<i>For ASTM 120, Deduct</i>	-8.56	
				<i>For Work In Restricted Working Space, Add</i>	22.16	
				<i>For 300 LB Rating, Add</i>	198.47	
	22 11 16 00-0131	EA		3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	170.40	64.83
				<i>For ASTM 120, Deduct</i>	-10.98	
				<i>For Work In Restricted Working Space, Add</i>	29.16	
				<i>For 300 LB Rating, Add</i>	254.68	
	22 11 16 00-0132	EA		4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	265.68	67.74
				<i>For ASTM 120, Deduct</i>	-24.62	
				<i>For Work In Restricted Working Space, Add</i>	30.47	
				<i>For 300 LB Rating, Add</i>	564.03	
	22 11 16 00-0133	EA		5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	580.18	70.70
				<i>For ASTM 120, Deduct</i>	-71.13	
				<i>For Work In Restricted Working Space, Add</i>	31.80	
				<i>For 300 LB Rating, Add</i>	1,618.57	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0134 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling .....	651.02	73.92
For ASTM 120, Deduct	-81.03	
For Work In Restricted Working Space, Add	33.24	
For 300 LB Rating, Add	1,843.36	
22 11 16 00-0135 EA 8", 150 LB, Galvanized Malleable Iron Reducing Coupling .....	767.11	77.24
For ASTM 120, Deduct	-97.70	
For Work In Restricted Working Space, Add	34.74	
For 300 LB Rating, Add	2,221.40	
<b>22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)</b>		
22 11 16 00-0137 EA 1/2", 150 LB, Galvanized Malleable Iron Cap .....	13.78	7.66
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	3.47	
For 300 LB Rating, Add	8.28	
22 11 16 00-0138 EA 3/4", 150 LB, Galvanized Malleable Iron Cap .....	15.40	8.22
For ASTM 120, Deduct	-0.46	
For Work In Restricted Working Space, Add	3.69	
For 300 LB Rating, Add	11.24	
22 11 16 00-0139 EA 1", 150 LB, Galvanized Malleable Iron Cap .....	18.03	9.52
For ASTM 120, Deduct	-0.57	
For Work In Restricted Working Space, Add	4.26	
For 300 LB Rating, Add	13.87	
22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap .....	19.94	9.98
For ASTM 120, Deduct	-0.76	
For Work In Restricted Working Space, Add	4.47	
For 300 LB Rating, Add	18.03	
22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap .....	19.63	9.98
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	4.47	
For 300 LB Rating, Add	16.98	
22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap .....	29.97	13.21
For ASTM 120, Deduct	-1.52	
For Work In Restricted Working Space, Add	5.96	
For 300 LB Rating, Add	35.57	
22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap .....	47.31	16.44
For ASTM 120, Deduct	-3.40	
For Work In Restricted Working Space, Add	7.39	
For 300 LB Rating, Add	78.62	
22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap .....	62.10	19.86
For ASTM 120, Deduct	-4.85	
For Work In Restricted Working Space, Add	8.94	
For 300 LB Rating, Add	111.64	
22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap .....	95.22	23.25
For ASTM 120, Deduct	-9.06	
For Work In Restricted Working Space, Add	10.45	
For 300 LB Rating, Add	207.45	
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap .....	244.03	29.08
For ASTM 120, Deduct	-30.08	
For Work In Restricted Working Space, Add	13.06	
For 300 LB Rating, Add	684.31	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap .....	304.57	34.56
For ASTM 120, Deduct	-37.91	
For Work In Restricted Working Space, Add	15.56	
For 300 LB Rating, Add	862.29	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap .....	385.39	38.62
For ASTM 120, Deduct	-49.12	
For Work In Restricted Working Space, Add	17.37	
For 300 LB Rating, Add	1,116.94	
<b>22 11 16 00-0149 Galvanized Malleable Iron Unions (22 11 16 00-0013)</b>		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union .....	47.11	20.50
For Work In Restricted Working Space, Add	9.23	
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union .....	54.28	23.74
For Work In Restricted Working Space, Add	10.66	
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union .....	66.55	27.98
For Work In Restricted Working Space, Add	12.59	
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union .....	85.44	33.34
For Work In Restricted Working Space, Add	14.98	
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union .....	102.62	39.71
For Work In Restricted Working Space, Add	17.87	
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union .....	123.36	49.32
For Work In Restricted Working Space, Add	22.16	
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union .....	280.94	72.69
For Work In Restricted Working Space, Add	32.72	
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union .....	384.05	95.59
For Work In Restricted Working Space, Add	43.05	
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union .....	63.98	20.50
For Work In Restricted Working Space, Add	9.23	
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union .....	65.69	23.74
For Work In Restricted Working Space, Add	10.66	
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union .....	79.38	27.98
For Work In Restricted Working Space, Add	12.59	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0161	EA		1-1/4", 250 LB, Galvanized Malleable Iron Union.....	106.55	33.34
				<i>For Work In Restricted Working Space, Add</i>	14.97	
	22 11 16 00-0162	EA		1-1/2", 250 LB, Galvanized Malleable Iron Union.....	124.79	39.71
				<i>For Work In Restricted Working Space, Add</i>	17.88	
	22 11 16 00-0163	EA		2", 250 LB, Galvanized Malleable Iron Union.....	165.96	49.32
				<i>For Work In Restricted Working Space, Add</i>	22.16	
	22 11 16 00-0164	EA		2-1/2", 250 LB, Galvanized Malleable Iron Union.....	351.30	72.69
				<i>For Work In Restricted Working Space, Add</i>	32.72	
	22 11 16 00-0165	EA		3", 250 LB, Galvanized Malleable Iron Union.....	515.16	95.59
				<i>For Work In Restricted Working Space, Add</i>	43.05	
	22 11 16 00-0166	EA		4", 250 LB, Galvanized Malleable Iron Union.....	732.93	99.95
				<i>For Work In Restricted Working Space, Add</i>	44.98	
	22 11 16 00-0167	EA		1/2", 300 LB, Galvanized Malleable Iron Union.....	68.61	20.50
				<i>For Work In Restricted Working Space, Add</i>	9.23	
	22 11 16 00-0168	EA		3/4", 300 LB, Galvanized Malleable Iron Union.....	76.54	23.74
				<i>For Work In Restricted Working Space, Add</i>	10.66	
	22 11 16 00-0169	EA		1", 300 LB, Galvanized Malleable Iron Union.....	96.40	27.98
				<i>For Work In Restricted Working Space, Add</i>	12.59	
	22 11 16 00-0170	EA		1-1/4", 300 LB, Galvanized Malleable Iron Union.....	125.79	33.34
				<i>For Work In Restricted Working Space, Add</i>	14.97	
	22 11 16 00-0171	EA		1-1/2", 300 LB, Galvanized Malleable Iron Union.....	150.96	39.71
				<i>For Work In Restricted Working Space, Add</i>	17.88	
	22 11 16 00-0172	EA		2", 300 LB, Galvanized Malleable Iron Union.....	183.55	49.32
				<i>For Work In Restricted Working Space, Add</i>	22.16	
	22 11 16 00-0173	EA		2-1/2", 300 LB, Galvanized Malleable Iron Union.....	414.98	72.69
				<i>For Work In Restricted Working Space, Add</i>	32.72	
	22 11 16 00-0174	EA		3", 300 LB, Galvanized Malleable Iron Union.....	660.89	95.59
				<i>For Work In Restricted Working Space, Add</i>	43.05	
	22 11 16 00-0175	EA		4", 300 LB, Galvanized Malleable Iron Union.....	1,447.54	99.95
				<i>For Work In Restricted Working Space, Add</i>	44.98	
	<b>22 11 16 00-0176</b>			<b>Galvanized Steel Nipples</b> <small>(22 11 16 00-0013)</small>		
				Note: ASTM A-53.		
	22 11 16 00-0177	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple.....	14.90	8.77
				<i>For ASTM 120, Deduct</i>	-0.26	
				<i>For Work In Restricted Working Space, Add</i>	3.96	
				<i>For Schedule 80 Nipples, Add</i>	1.94	
	22 11 16 00-0178	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	14.58	8.77
				<i>For ASTM 120, Deduct</i>	-0.21	
				<i>For Work In Restricted Working Space, Add</i>	3.96	
				<i>For Schedule 80 Nipples, Add</i>	1.57	
	22 11 16 00-0179	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple.....	14.88	8.77
				<i>For ASTM 120, Deduct</i>	-0.25	
				<i>For Work In Restricted Working Space, Add</i>	3.96	
				<i>For Schedule 80 Nipples, Add</i>	1.92	
	22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple.....	16.50	9.52
				<i>For ASTM 120, Deduct</i>	-0.35	
				<i>For Work In Restricted Working Space, Add</i>	4.26	
				<i>For Schedule 80 Nipples, Add</i>	2.62	
	22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple.....	18.47	10.25
				<i>For ASTM 120, Deduct</i>	-0.46	
				<i>For Work In Restricted Working Space, Add</i>	4.62	
				<i>For Schedule 80 Nipples, Add</i>	3.51	
	22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	19.01	10.25
				<i>For ASTM 120, Deduct</i>	-0.54	
				<i>For Work In Restricted Working Space, Add</i>	4.62	
				<i>For Schedule 80 Nipples, Add</i>	4.13	
	22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple.....	24.96	13.21
				<i>For ASTM 120, Deduct</i>	-0.77	
				<i>For Work In Restricted Working Space, Add</i>	5.96	
				<i>For Schedule 80 Nipples, Add</i>	5.81	
	22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	39.80	16.44
				<i>For ASTM 120, Deduct</i>	-2.28	
				<i>For Work In Restricted Working Space, Add</i>	7.39	
				<i>For Schedule 80 Nipples, Add</i>	17.31	
	22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple.....	47.98	19.86
				<i>For ASTM 120, Deduct</i>	-2.73	
				<i>For Work In Restricted Working Space, Add</i>	8.94	
				<i>For Schedule 80 Nipples, Add</i>	20.74	
	22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple.....	62.08	23.25
				<i>For ASTM 120, Deduct</i>	-4.09	
				<i>For Work In Restricted Working Space, Add</i>	10.45	
				<i>For Schedule 80 Nipples, Add</i>	31.08	
	22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.16	8.77
				<i>For ASTM 120, Deduct</i>	-0.29	
				<i>For Work In Restricted Working Space, Add</i>	3.96	
				<i>For Schedule 80 Nipples, Add</i>	2.23	
	22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.65	8.77
				<i>For ASTM 120, Deduct</i>	-0.22	
				<i>For Work In Restricted Working Space, Add</i>	3.96	
				<i>For Schedule 80 Nipples, Add</i>	1.65	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0189 EA 3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.02	8.77
For ASTM 120, Deduct	-0.27	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.07	
22 11 16 00-0190 EA 3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.16	8.77
For ASTM 120, Deduct	-0.29	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.23	
22 11 16 00-0191 EA 1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	14.65	8.77
For ASTM 120, Deduct	-0.22	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	1.65	
22 11 16 00-0192 EA 3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.02	8.77
For ASTM 120, Deduct	-0.27	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.07	
22 11 16 00-0193 EA 1" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	16.91	9.52
For ASTM 120, Deduct	-0.41	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	3.09	
22 11 16 00-0194 EA 1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	18.70	10.25
For ASTM 120, Deduct	-0.50	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	3.77	
22 11 16 00-0195 EA 1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.27	10.25
For ASTM 120, Deduct	-0.58	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	4.42	
22 11 16 00-0196 EA 3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.81	8.77
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.98	
22 11 16 00-0197 EA 1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.90	8.77
For ASTM 120, Deduct	-0.26	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	1.94	
22 11 16 00-0198 EA 3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.22	8.77
For ASTM 120, Deduct	-0.30	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.30	
22 11 16 00-0199 EA 1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.14	9.52
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	3.35	
22 11 16 00-0200 EA 1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	19.02	10.25
For ASTM 120, Deduct	-0.54	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	4.14	
22 11 16 00-0201 EA 1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	19.72	10.25
For ASTM 120, Deduct	-0.65	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	4.94	
22 11 16 00-0202 EA 2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	25.60	13.21
For ASTM 120, Deduct	-0.86	
For Work In Restricted Working Space, Add	5.96	
For Schedule 80 Nipples, Add	6.54	
22 11 16 00-0203 EA 3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	15.81	8.77
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.98	
22 11 16 00-0204 EA 1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	14.90	8.77
For ASTM 120, Deduct	-0.26	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	1.94	
22 11 16 00-0205 EA 3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	15.22	8.77
For ASTM 120, Deduct	-0.30	
For Work In Restricted Working Space, Add	3.96	
For Schedule 80 Nipples, Add	2.30	
22 11 16 00-0206 EA 1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	17.14	9.52
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	3.35	
22 11 16 00-0207 EA 1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	19.02	10.25
For ASTM 120, Deduct	-0.54	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	4.14	
22 11 16 00-0208 EA 1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	19.72	10.25
For ASTM 120, Deduct	-0.65	
For Work In Restricted Working Space, Add	4.62	
For Schedule 80 Nipples, Add	4.94	
22 11 16 00-0209 EA 2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	25.60	13.21
For ASTM 120, Deduct	-0.86	
For Work In Restricted Working Space, Add	5.96	
For Schedule 80 Nipples, Add	6.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0210 EA 2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	40.38	16.44
<i>For ASTM 120, Deduct</i>	-2.36	
<i>For Work In Restricted Working Space, Add</i>	7.39	
<i>For Schedule 80 Nipples, Add</i>	17.97	
22 11 16 00-0211 EA 3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	50.48	19.86
<i>For ASTM 120, Deduct</i>	-3.10	
<i>For Work In Restricted Working Space, Add</i>	8.94	
<i>For Schedule 80 Nipples, Add</i>	23.59	
22 11 16 00-0212 EA 3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.30	8.77
<i>For ASTM 120, Deduct</i>	-0.47	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	3.53	
22 11 16 00-0213 EA 1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.30	8.77
<i>For ASTM 120, Deduct</i>	-0.32	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	2.39	
22 11 16 00-0214 EA 3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.81	8.77
<i>For ASTM 120, Deduct</i>	-0.39	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	2.98	
22 11 16 00-0215 EA 1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.73	9.52
<i>For ASTM 120, Deduct</i>	-0.53	
<i>For Work In Restricted Working Space, Add</i>	4.26	
<i>For Schedule 80 Nipples, Add</i>	4.02	
22 11 16 00-0216 EA 1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	19.72	10.25
<i>For ASTM 120, Deduct</i>	-0.65	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	4.94	
22 11 16 00-0217 EA 1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.86	10.25
<i>For ASTM 120, Deduct</i>	-0.82	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	6.24	
22 11 16 00-0218 EA 2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	26.83	13.21
<i>For ASTM 120, Deduct</i>	-1.05	
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Schedule 80 Nipples, Add</i>	7.95	
22 11 16 00-0219 EA 2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	42.91	16.44
<i>For ASTM 120, Deduct</i>	-2.74	
<i>For Work In Restricted Working Space, Add</i>	7.39	
<i>For Schedule 80 Nipples, Add</i>	20.85	
22 11 16 00-0220 EA 3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	54.07	19.86
<i>For ASTM 120, Deduct</i>	-3.64	
<i>For Work In Restricted Working Space, Add</i>	8.94	
<i>For Schedule 80 Nipples, Add</i>	27.68	
22 11 16 00-0221 EA 3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.30	8.77
<i>For ASTM 120, Deduct</i>	-0.47	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	3.53	
22 11 16 00-0222 EA 1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.30	8.77
<i>For ASTM 120, Deduct</i>	-0.32	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	2.39	
22 11 16 00-0223 EA 3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.30	8.77
<i>For ASTM 120, Deduct</i>	-0.47	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	3.53	
22 11 16 00-0224 EA 1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	17.73	9.52
<i>For ASTM 120, Deduct</i>	-0.53	
<i>For Work In Restricted Working Space, Add</i>	4.26	
<i>For Schedule 80 Nipples, Add</i>	4.02	
22 11 16 00-0225 EA 1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	19.72	10.25
<i>For ASTM 120, Deduct</i>	-0.65	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	4.94	
22 11 16 00-0226 EA 1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	20.86	10.25
<i>For ASTM 120, Deduct</i>	-0.82	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	6.24	
22 11 16 00-0227 EA 2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	26.89	13.21
<i>For ASTM 120, Deduct</i>	-1.05	
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Schedule 80 Nipples, Add</i>	8.01	
22 11 16 00-0228 EA 2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	42.91	16.44
<i>For ASTM 120, Deduct</i>	-2.74	
<i>For Work In Restricted Working Space, Add</i>	7.39	
<i>For Schedule 80 Nipples, Add</i>	20.85	
22 11 16 00-0229 EA 3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	54.07	19.86
<i>For ASTM 120, Deduct</i>	-3.64	
<i>For Work In Restricted Working Space, Add</i>	8.94	
<i>For Schedule 80 Nipples, Add</i>	27.68	
22 11 16 00-0230 EA 4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	67.42	23.25
<i>For ASTM 120, Deduct</i>	-4.89	
<i>For Work In Restricted Working Space, Add</i>	10.45	
<i>For Schedule 80 Nipples, Add</i>	37.16	



<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.47	8.77
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	4.87	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.73	8.77
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	2.88	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.31	8.77
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	3.55	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	18.53	9.52
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.26	
			<i>For Schedule 80 Nipples, Add</i>	4.94	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	20.74	10.25
			<i>For ASTM 120, Deduct</i>	-0.80	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	6.10	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	22.00	10.25
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	7.54	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	28.75	13.21
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.96	
			<i>For Schedule 80 Nipples, Add</i>	10.13	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	45.02	16.44
			<i>For ASTM 120, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For Schedule 80 Nipples, Add</i>	23.26	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	58.09	19.86
			<i>For ASTM 120, Deduct</i>	-4.25	
			<i>For Work In Restricted Working Space, Add</i>	8.94	
			<i>For Schedule 80 Nipples, Add</i>	32.26	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	71.38	23.25
			<i>For ASTM 120, Deduct</i>	-5.48	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
			<i>For Schedule 80 Nipples, Add</i>	41.68	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	17.47	8.77
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	4.87	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	15.73	8.77
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	2.88	
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	16.31	8.77
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	3.55	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	18.53	9.52
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.26	
			<i>For Schedule 80 Nipples, Add</i>	4.94	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	20.74	10.25
			<i>For ASTM 120, Deduct</i>	-0.80	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	6.10	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.00	10.25
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	7.54	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	28.75	13.21
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.96	
			<i>For Schedule 80 Nipples, Add</i>	10.13	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	45.02	16.44
			<i>For ASTM 120, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For Schedule 80 Nipples, Add</i>	23.26	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	58.09	19.86
			<i>For ASTM 120, Deduct</i>	-4.25	
			<i>For Work In Restricted Working Space, Add</i>	8.94	
			<i>For Schedule 80 Nipples, Add</i>	32.26	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	71.38	23.25
			<i>For ASTM 120, Deduct</i>	-5.48	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
			<i>For Schedule 80 Nipples, Add</i>	41.68	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	17.94	8.77
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	5.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0252 EA 1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	16.08	8.77
<i>For ASTM 120, Deduct</i>	-0.43	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	3.28	
22 11 16 00-0253 EA 3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	16.94	8.77
<i>For ASTM 120, Deduct</i>	-0.56	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	4.26	
22 11 16 00-0254 EA 1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	19.11	9.52
<i>For ASTM 120, Deduct</i>	-0.74	
<i>For Work In Restricted Working Space, Add</i>	4.26	
<i>For Schedule 80 Nipples, Add</i>	5.60	
22 11 16 00-0255 EA 1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	21.60	10.25
<i>For ASTM 120, Deduct</i>	-0.93	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	7.08	
22 11 16 00-0256 EA 1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.83	10.25
<i>For ASTM 120, Deduct</i>	-1.12	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	8.48	
22 11 16 00-0257 EA 2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	30.19	13.21
<i>For ASTM 120, Deduct</i>	-1.55	
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Schedule 80 Nipples, Add</i>	11.78	
22 11 16 00-0258 EA 2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	47.03	16.44
<i>For ASTM 120, Deduct</i>	-3.36	
<i>For Work In Restricted Working Space, Add</i>	7.39	
<i>For Schedule 80 Nipples, Add</i>	25.55	
22 11 16 00-0259 EA 3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	59.72	19.86
<i>For ASTM 120, Deduct</i>	-4.49	
<i>For Work In Restricted Working Space, Add</i>	8.94	
<i>For Schedule 80 Nipples, Add</i>	34.12	
22 11 16 00-0260 EA 4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	75.23	23.25
<i>For ASTM 120, Deduct</i>	-6.06	
<i>For Work In Restricted Working Space, Add</i>	10.45	
<i>For Schedule 80 Nipples, Add</i>	46.07	
22 11 16 00-0261 EA 3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	32.16	8.77
<i>For ASTM 120, Deduct</i>	-2.84	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	21.61	
22 11 16 00-0262 EA 1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	18.27	8.77
<i>For ASTM 120, Deduct</i>	-0.76	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	5.78	
22 11 16 00-0263 EA 3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	19.68	8.77
<i>For ASTM 120, Deduct</i>	-0.97	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	7.39	
22 11 16 00-0264 EA 1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	22.41	9.52
<i>For ASTM 120, Deduct</i>	-1.23	
<i>For Work In Restricted Working Space, Add</i>	4.26	
<i>For Schedule 80 Nipples, Add</i>	9.36	
22 11 16 00-0265 EA 1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	25.46	10.25
<i>For ASTM 120, Deduct</i>	-1.51	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	11.48	
22 11 16 00-0266 EA 1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	26.94	10.25
<i>For ASTM 120, Deduct</i>	-1.73	
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Schedule 80 Nipples, Add</i>	13.17	
22 11 16 00-0267 EA 2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	36.70	13.21
<i>For ASTM 120, Deduct</i>	-2.53	
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Schedule 80 Nipples, Add</i>	19.20	
22 11 16 00-0268 EA 2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	53.47	16.44
<i>For ASTM 120, Deduct</i>	-4.33	
<i>For Work In Restricted Working Space, Add</i>	7.39	
<i>For Schedule 80 Nipples, Add</i>	32.89	
22 11 16 00-0269 EA 3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	70.11	19.86
<i>For ASTM 120, Deduct</i>	-6.05	
<i>For Work In Restricted Working Space, Add</i>	8.94	
<i>For Schedule 80 Nipples, Add</i>	45.96	
22 11 16 00-0270 EA 4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	83.04	23.25
<i>For ASTM 120, Deduct</i>	-7.23	
<i>For Work In Restricted Working Space, Add</i>	10.45	
<i>For Schedule 80 Nipples, Add</i>	54.97	
22 11 16 00-0271 EA 3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	22.24	8.77
<i>For ASTM 120, Deduct</i>	-1.36	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	10.31	
22 11 16 00-0272 EA 1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	19.22	8.77
<i>For ASTM 120, Deduct</i>	-0.90	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Nipples, Add</i>	6.86	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	20.39	8.77
			<i>For ASTM 120, Deduct</i>	-1.08	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	8.20	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	23.58	9.52
			<i>For ASTM 120, Deduct</i>	-1.41	
			<i>For Work In Restricted Working Space, Add</i>	4.26	
			<i>For Schedule 80 Nipples, Add</i>	10.69	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	27.43	10.25
			<i>For ASTM 120, Deduct</i>	-1.81	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	13.73	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	28.85	10.25
			<i>For ASTM 120, Deduct</i>	-2.02	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	15.34	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	39.56	13.21
			<i>For ASTM 120, Deduct</i>	-2.96	
			<i>For Work In Restricted Working Space, Add</i>	5.96	
			<i>For Schedule 80 Nipples, Add</i>	22.46	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	57.50	16.44
			<i>For ASTM 120, Deduct</i>	-4.93	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For Schedule 80 Nipples, Add</i>	37.48	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	75.79	19.86
			<i>For ASTM 120, Deduct</i>	-6.90	
			<i>For Work In Restricted Working Space, Add</i>	8.94	
			<i>For Schedule 80 Nipples, Add</i>	52.44	
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	90.71	23.25
			<i>For ASTM 120, Deduct</i>	-8.38	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
			<i>For Schedule 80 Nipples, Add</i>	63.71	
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	23.22	8.77
			<i>For ASTM 120, Deduct</i>	-1.50	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	11.42	
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	20.05	8.77
			<i>For ASTM 120, Deduct</i>	-1.03	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	7.81	
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	21.26	8.77
			<i>For ASTM 120, Deduct</i>	-1.21	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
			<i>For Schedule 80 Nipples, Add</i>	9.19	
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	25.13	9.52
			<i>For ASTM 120, Deduct</i>	-1.64	
			<i>For Work In Restricted Working Space, Add</i>	4.26	
			<i>For Schedule 80 Nipples, Add</i>	12.46	
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	29.84	10.25
			<i>For ASTM 120, Deduct</i>	-2.17	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	16.47	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	30.79	10.25
			<i>For ASTM 120, Deduct</i>	-2.31	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
			<i>For Schedule 80 Nipples, Add</i>	17.56	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	42.47	13.21
			<i>For ASTM 120, Deduct</i>	-3.39	
			<i>For Work In Restricted Working Space, Add</i>	5.96	
			<i>For Schedule 80 Nipples, Add</i>	25.78	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	61.41	16.44
			<i>For ASTM 120, Deduct</i>	-5.52	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For Schedule 80 Nipples, Add</i>	41.94	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	81.51	19.86
			<i>For ASTM 120, Deduct</i>	-7.76	
			<i>For Work In Restricted Working Space, Add</i>	8.94	
			<i>For Schedule 80 Nipples, Add</i>	58.96	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	98.45	23.25
			<i>For ASTM 120, Deduct</i>	-9.54	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
			<i>For Schedule 80 Nipples, Add</i>	72.54	
22 11 16 00-0291			<b>Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)</b>		
22 11 16 00-0292	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	15.04	6.56
			<i>For Work In Restricted Working Space, Add</i>	2.96	
			<i>For 300 LB Rating, Add</i>	18.20	
22 11 16 00-0293	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	16.20	7.38
			<i>For Work In Restricted Working Space, Add</i>	3.31	
			<i>For 300 LB Rating, Add</i>	18.27	
22 11 16 00-0294	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	17.99	8.22
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For 300 LB Rating, Add</i>	20.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	22.66 4.18 30.52	9.32
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	27.48 4.72 40.93	10.43
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	34.93 5.99 52.06	13.30
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	58.73 8.87 100.99	19.68
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	80.28 11.67 143.06	25.95
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	126.57 12.19 294.63	27.08
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	200.08 12.72 538.66	28.30
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	214.79 13.30 582.22	29.52
<b>22 11 16 00-0303 Galvanized Malleable Iron Bushing</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	37.55 7.83	17.36
22 11 16 00-0305 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	41.40 8.31	18.47
22 11 16 00-0306 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	42.15 8.75	19.48
22 11 16 00-0307 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.91 8.92	19.86
22 11 16 00-0308 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.64 9.36	20.78
22 11 16 00-0309 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	50.25 9.84	21.89
22 11 16 00-0310 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.31 9.59	21.33
22 11 16 00-0311 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.78 10.03	22.26
22 11 16 00-0312 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.88 10.51	23.37
22 11 16 00-0313 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.16 11.12	24.75
22 11 16 00-0314 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.93 11.18	24.85
22 11 16 00-0315 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.20 11.63	25.86
22 11 16 00-0316 EA 2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.20 12.11	26.88
22 11 16 00-0317 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.23 12.71	28.26
22 11 16 00-0318 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.03 13.38	29.73
22 11 16 00-0319 EA 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	96.53 15.22	33.80
22 11 16 00-0320 EA 2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	98.14 15.70	34.90
22 11 16 00-0321 EA 2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	100.17 16.31	36.20
22 11 16 00-0322 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	101.55 16.98	37.77
22 11 16 00-0323 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	101.73 18.57	41.28
22 11 16 00-0324 EA 3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	122.86 18.72	41.56
22 11 16 00-0325 EA 3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	124.46 19.20	42.67
22 11 16 00-0326 EA 3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	126.50 19.81	44.05
22 11 16 00-0327 EA 3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	127.54 20.48	45.53
22 11 16 00-0328 EA 3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	127.32 22.07	49.04
22 11 16 00-0329 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	142.42 25.67	57.07
22 11 16 00-0330 EA 4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	190.51 19.14	42.48
22 11 16 00-0331 EA 4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	192.02 19.59	43.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0332 EA 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing .....	193.94	44.84
For Work In Restricted Working Space, Add	20.17	
22 11 16 00-0333 EA 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing .....	196.03	46.23
For Work In Restricted Working Space, Add	20.79	
22 11 16 00-0334 EA 4" x 2", 150 LB, Galvanized Malleable Iron Bushing .....	186.12	49.54
For Work In Restricted Working Space, Add	22.30	
22 11 16 00-0335 EA 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing .....	212.33	57.11
For Work In Restricted Working Space, Add	25.68	
22 11 16 00-0336 EA 4" x 3", 150 LB, Galvanized Malleable Iron Bushing .....	214.96	64.43
For Work In Restricted Working Space, Add	28.99	
<b>22 11 16 00-0337 Galvanized Malleable Iron Floor Flange</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0338 EA 1/2", 150 LB, Galvanized Malleable Iron Floor Flange .....	55.26	33.75
22 11 16 00-0339 EA 3/4", 150 LB, Galvanized Malleable Iron Floor Flange .....	60.43	36.94
22 11 16 00-0340 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange .....	69.14	41.74
22 11 16 00-0341 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange .....	71.78	43.22
22 11 16 00-0342 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange .....	78.11	47.01
22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange .....	83.51	49.04
<b>22 11 16 00-0344 Galvanized Cast Iron Flanges</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange .....	94.60	36.94
For Work In Restricted Working Space, Add	16.62	
22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange .....	92.95	41.74
For Work In Restricted Working Space, Add	18.78	
22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange .....	80.84	43.22
For Work In Restricted Working Space, Add	19.44	
22 11 16 00-0348 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange .....	106.14	47.01
For Work In Restricted Working Space, Add	21.15	
22 11 16 00-0349 EA 2", 125 LB, Galvanized Cast Iron Flange .....	104.92	49.04
For Work In Restricted Working Space, Add	22.07	
22 11 16 00-0350 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange .....	121.76	56.79
For Work In Restricted Working Space, Add	25.53	
22 11 16 00-0351 EA 3", 125 LB, Galvanized Cast Iron Flange .....	207.00	72.03
For Work In Restricted Working Space, Add	32.40	
22 11 16 00-0352 EA 4", 125 LB, Galvanized Cast Iron Flange .....	274.12	92.90
For Work In Restricted Working Space, Add	41.78	
22 11 16 00-0353 EA 5", 125 LB, Galvanized Cast Iron Flange .....	377.51	110.58
For Work In Restricted Working Space, Add	49.74	
22 11 16 00-0354 EA 6", 125 LB, Galvanized Cast Iron Flange .....	416.74	127.03
For Work In Restricted Working Space, Add	57.14	
22 11 16 00-0355 EA 8", 125 LB, Galvanized Cast Iron Flange .....	394.58	145.18
For Work In Restricted Working Space, Add	65.30	
<b>22 11 16 00-0356 Cut And Thread Existing In-Place Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small>		
Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0357 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe .....	30.08	
For Work In Restricted Working Space, Add	9.02	
22 11 16 00-0358 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe .....	33.10	
For Work In Restricted Working Space, Add	9.93	
22 11 16 00-0359 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe .....	36.11	
For Work In Restricted Working Space, Add	10.83	
22 11 16 00-0360 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe .....	39.11	
For Work In Restricted Working Space, Add	11.73	
22 11 16 00-0361 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe .....	41.11	
For Work In Restricted Working Space, Add	12.33	
22 11 16 00-0362 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe .....	43.13	
For Work In Restricted Working Space, Add	12.94	
22 11 16 00-0363 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe .....	45.14	
For Work In Restricted Working Space, Add	13.54	
22 11 16 00-0364 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe .....	47.14	
For Work In Restricted Working Space, Add	14.14	
22 11 16 00-0365 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe .....	49.14	
For Work In Restricted Working Space, Add	14.74	
22 11 16 00-0366 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe .....	53.15	
For Work In Restricted Working Space, Add	15.95	
22 11 16 00-0367 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe .....	57.16	
For Work In Restricted Working Space, Add	17.15	
<b>22 11 16 00-0368 Copper Pipe And Fittings</b> <small>(22 11 16)</small>		
Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
<b>22 11 16 00-0369 Copper Tube/Pipe</b> <small>(22 11 16 00-0368)</small>		
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
<b>22 11 16 00-0370 Hard Drawn Type L Copper Tube/Pipe</b> <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371 LF 1/4" Hard Drawn Type L Copper Tube/Pipe .....	4.03	2.25
For <20, Add	0.07	
For >150, Deduct	-0.13	
For Work In Restricted Working Space, Add	1.01	
For Medical/Oxygen Service Tubing, Add	0.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0372 LF 3/8" Hard Drawn Type L Copper Tube/Pipe.....	4.48	2.34
For <20, Add	0.10	
For >150, Deduct	-0.19	
For Work In Restricted Working Space, Add	1.06	
For Medical/Oxygen Service Tubing, Add	0.08	
22 11 16 00-0373 LF 1/2" Hard Drawn Type L Copper Tube/Pipe.....	4.80	2.44
For <20, Add	0.11	
For >150, Deduct	-0.23	
For Work In Restricted Working Space, Add	1.10	
For Medical/Oxygen Service Tubing, Add	0.09	
22 11 16 00-0374 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....	5.73	2.59
For <20, Add	0.18	
For >150, Deduct	-0.37	
For Work In Restricted Working Space, Add	1.17	
For Medical/Oxygen Service Tubing, Add	0.15	
22 11 16 00-0375 LF 1" Hard Drawn Type L Copper Tube/Pipe.....	7.02	2.92
For <20, Add	0.27	
For >150, Deduct	-0.53	
For Work In Restricted Working Space, Add	1.31	
For Medical/Oxygen Service Tubing, Add	0.21	
22 11 16 00-0376 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	10.16	4.34
For <20, Add	0.37	
For >150, Deduct	-0.73	
For Work In Restricted Working Space, Add	1.95	
For Medical/Oxygen Service Tubing, Add	0.29	
22 11 16 00-0377 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	11.96	4.85
For <20, Add	0.47	
For >150, Deduct	-0.94	
For Work In Restricted Working Space, Add	2.18	
For Medical/Oxygen Service Tubing, Add	0.38	
22 11 16 00-0378 LF 2" Hard Drawn Type L Copper Tube/Pipe.....	16.39	5.97
For <20, Add	0.74	
For >150, Deduct	-1.49	
For Work In Restricted Working Space, Add	2.69	
For Medical/Oxygen Service Tubing, Add	0.59	
22 11 16 00-0379 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	31.85	7.03
For <20, Add	1.07	
For >150, Deduct	-2.15	
For Work In Restricted Working Space, Add	6.33	
For Medical/Oxygen Service Tubing, Add	0.86	
22 11 16 00-0380 LF 3" Hard Drawn Type L Copper Tube/Pipe.....	39.15	8.29
For <20, Add	1.43	
For >150, Deduct	-2.86	
For Work In Restricted Working Space, Add	7.45	
For Medical/Oxygen Service Tubing, Add	1.15	
22 11 16 00-0381 LF 4" Hard Drawn Type L Copper Tube/Pipe.....	53.54	9.34
For <20, Add	2.55	
For >150, Deduct	-5.10	
For Work In Restricted Working Space, Add	8.41	
For Medical/Oxygen Service Tubing, Add	2.04	
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe.....	77.27	10.73
For <20, Add	4.51	
For >150, Deduct	-9.02	
For Work In Restricted Working Space, Add	9.66	
For Medical/Oxygen Service Tubing, Add	3.61	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe.....	109.18	16.64
For <20, Add	5.93	
For >150, Deduct	-11.86	
For Work In Restricted Working Space, Add	14.96	
For Medical/Oxygen Service Tubing, Add	4.74	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe.....	167.21	18.49
For <20, Add	11.18	
For >150, Deduct	-22.36	
For Work In Restricted Working Space, Add	16.63	
For Medical/Oxygen Service Tubing, Add	8.94	
<b>22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe</b> (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe.....	4.36	2.42
For <20, Add	0.07	
For >150, Deduct	-0.15	
For Work In Restricted Working Space, Add	1.09	
For Medical/Oxygen Service Tubing, Add	0.06	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe.....	5.45	2.52
For <20, Add	0.13	
For >150, Deduct	-0.26	
For Work In Restricted Working Space, Add	1.25	
For Medical/Oxygen Service Tubing, Add	0.10	
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe.....	5.58	2.62
For <20, Add	0.15	
For >150, Deduct	-0.31	
For Work In Restricted Working Space, Add	1.22	
For Medical/Oxygen Service Tubing, Add	0.12	



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe .....	7.46	2.79
For <20, Add	0.28	
For >150, Deduct	-0.55	
For Work In Restricted Working Space, Add	1.41	
For Medical/Oxygen Service Tubing, Add	0.22	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe .....	8.67	3.14
For <20, Add	0.37	
For >150, Deduct	-0.73	
For Work In Restricted Working Space, Add	1.50	
For Medical/Oxygen Service Tubing, Add	0.29	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe .....	11.65	4.67
For <20, Add	0.46	
For >150, Deduct	-0.91	
For Work In Restricted Working Space, Add	2.12	
For Medical/Oxygen Service Tubing, Add	0.37	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe .....	13.81	5.21
For <20, Add	0.59	
For >150, Deduct	-1.17	
For Work In Restricted Working Space, Add	2.39	
For Medical/Oxygen Service Tubing, Add	0.47	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe .....	18.75	6.43
For <20, Add	0.90	
For >150, Deduct	-1.80	
For Work In Restricted Working Space, Add	2.93	
For Medical/Oxygen Service Tubing, Add	0.72	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe .....	34.61	7.55
For <20, Add	1.34	
For >150, Deduct	-2.68	
For Work In Restricted Working Space, Add	6.36	
For Medical/Oxygen Service Tubing, Add	1.07	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe .....	45.66	8.90
For <20, Add	1.83	
For >150, Deduct	-3.67	
For Work In Restricted Working Space, Add	8.20	
For Medical/Oxygen Service Tubing, Add	1.47	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe .....	63.63	10.05
For <20, Add	3.27	
For >150, Deduct	-6.53	
For Work In Restricted Working Space, Add	9.29	
For Medical/Oxygen Service Tubing, Add	2.61	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe .....	96.40	11.54
For <20, Add	5.99	
For >150, Deduct	-11.97	
For Work In Restricted Working Space, Add	10.96	
For Medical/Oxygen Service Tubing, Add	4.79	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe .....	144.81	17.87
For <20, Add	8.59	
For >150, Deduct	-17.18	
For Work In Restricted Working Space, Add	17.67	
For Medical/Oxygen Service Tubing, Add	6.87	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe .....	225.76	19.88
For <20, Add	16.08	
For >150, Deduct	-32.17	
For Work In Restricted Working Space, Add	19.48	
For Medical/Oxygen Service Tubing, Add	12.87	
<b>22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)</b>		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe .....	3.80	2.11
For <20, Add	0.07	
For >150, Deduct	-0.15	
For Work In Restricted Working Space, Add	0.92	
22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe .....	3.98	2.20
For <20, Add	0.08	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	0.95	
22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe .....	4.69	2.33
For <20, Add	0.13	
For >150, Deduct	-0.27	
For Work In Restricted Working Space, Add	1.01	
22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe .....	5.81	2.62
For <20, Add	0.21	
For >150, Deduct	-0.41	
For Work In Restricted Working Space, Add	1.12	
22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe .....	8.77	3.91
For <20, Add	0.30	
For >150, Deduct	-0.60	
For Work In Restricted Working Space, Add	1.73	
22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe .....	10.78	4.36
For <20, Add	0.42	
For >150, Deduct	-0.83	
For Work In Restricted Working Space, Add	1.99	
22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe .....	14.75	5.38
For <20, Add	0.65	
For >150, Deduct	-1.31	
For Work In Restricted Working Space, Add	2.46	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe.....	29.44	6.33
For <20, Add	0.95	
For >150, Deduct	-1.90	
For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe.....	35.02	7.45
For <20, Add	1.26	
For >150, Deduct	-2.52	
For Work In Restricted Working Space, Add	6.72	
22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe.....	49.77	8.41
For <20, Add	2.36	
For >150, Deduct	-4.73	
For Work In Restricted Working Space, Add	7.84	
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe.....	76.05	9.66
For <20, Add	4.59	
For >150, Deduct	-9.17	
For Work In Restricted Working Space, Add	9.05	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe.....	108.02	14.97
For <20, Add	6.13	
For >150, Deduct	-12.26	
For Work In Restricted Working Space, Add	14.02	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe.....	167.55	16.64
For <20, Add	11.61	
For >150, Deduct	-23.23	
For Work In Restricted Working Space, Add	15.43	
<b>22 11 16 00-0414 Soft Drawn Type L Copper Tube (22 11 16 00-0369)</b>		
22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube .....	4.21	2.25
For <20, Add	0.08	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	1.01	
22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube .....	4.83	2.34
For <20, Add	0.13	
For >150, Deduct	-0.26	
For Work In Restricted Working Space, Add	1.06	
22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube .....	5.41	2.44
For <20, Add	0.17	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.10	
22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube .....	6.01	2.52
For <20, Add	0.22	
For >150, Deduct	-0.45	
For Work In Restricted Working Space, Add	1.13	
22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube .....	6.56	2.59
For <20, Add	0.27	
For >150, Deduct	-0.53	
For Work In Restricted Working Space, Add	1.17	
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube .....	8.05	2.92
For <20, Add	0.37	
For >150, Deduct	-0.74	
For Work In Restricted Working Space, Add	1.31	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube .....	11.36	4.34
For <20, Add	0.49	
For >150, Deduct	-0.97	
For Work In Restricted Working Space, Add	1.95	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube .....	13.83	4.85
For <20, Add	0.66	
For >150, Deduct	-1.31	
For Work In Restricted Working Space, Add	2.18	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube .....	19.41	5.97
For <20, Add	1.05	
For >150, Deduct	-2.09	
For Work In Restricted Working Space, Add	2.69	
<b>22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)</b>		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube .....	4.30	2.25
For <20, Add	0.09	
For >150, Deduct	-0.18	
For Work In Restricted Working Space, Add	1.01	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube .....	5.10	2.34
For <20, Add	0.16	
For >150, Deduct	-0.31	
For Work In Restricted Working Space, Add	1.06	
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube .....	5.63	2.44
For <20, Add	0.20	
For >150, Deduct	-0.39	
For Work In Restricted Working Space, Add	1.10	
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube .....	6.12	2.52
For <20, Add	0.23	
For >150, Deduct	-0.47	
For Work In Restricted Working Space, Add	1.13	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0429	LF		3/4" Soft Drawn Type K Copper Tube .....	7.53	2.59
			<i>For &lt;20, Add</i>	0.36	
			<i>For &gt;150, Deduct</i>	-0.73	
			<i>For Work In Restricted Working Space, Add</i>	1.17	
22 11 16 00-0430	LF		1" Soft Drawn Type K Copper Tube.....	9.19	2.92
			<i>For &lt;20, Add</i>	0.48	
			<i>For &gt;150, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
22 11 16 00-0431	LF		1-1/4" Soft Drawn Type K Copper Tube.....	12.19	4.34
			<i>For &lt;20, Add</i>	0.57	
			<i>For &gt;150, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	1.95	
22 11 16 00-0432	LF		1-1/2" Soft Drawn Type K Copper Tube.....	15.15	4.85
			<i>For &lt;20, Add</i>	0.79	
			<i>For &gt;150, Deduct</i>	-1.58	
			<i>For Work In Restricted Working Space, Add</i>	2.18	
22 11 16 00-0433	LF		2" Soft Drawn Type K Copper Tube.....	21.22	5.97
			<i>For &lt;20, Add</i>	1.23	
			<i>For &gt;150, Deduct</i>	-2.45	
			<i>For Work In Restricted Working Space, Add</i>	2.69	
22 11 16 00-0434	LF		2-1/2" Soft Drawn Type K Copper Tube.....	29.14	7.17
			<i>For &lt;20, Add</i>	1.84	
			<i>For &gt;150, Deduct</i>	-3.68	
			<i>For Work In Restricted Working Space, Add</i>	3.23	
22 11 16 00-0435	LF		3" Soft Drawn Type K Copper Tube.....	38.27	8.46
			<i>For &lt;20, Add</i>	2.56	
			<i>For &gt;150, Deduct</i>	-5.12	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0436			<b>Copper And Brass Fittings</b> (22 11 16 00-0368)		
			Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437			<b>90 Degree Copper Elbows</b> (22 11 16 00-0436)		
22 11 16 00-0438	EA		1/4" 90 Degree Copper Elbow.....	23.12	13.38
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.01	
			<i>For Street Fitting, Add</i>	1.22	
			<i>For Work In Restricted Working Space, Add</i>	6.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.16	
22 11 16 00-0439	EA		3/8" 90 Degree Copper Elbow.....	27.30	16.05
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.57	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.61	
			<i>For Street Fitting, Add</i>	1.29	
			<i>For Work In Restricted Working Space, Add</i>	7.22	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.77	
22 11 16 00-0440	EA		1/2" 90 Degree Copper Elbow.....	34.15	22.06
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.97	
			<i>For Street Fitting, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	9.93	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.02	
22 11 16 00-0441	EA		3/4" 90 Degree Copper Elbow.....	43.47	27.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.17	
			<i>For Street Fitting, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.28	
22 11 16 00-0442	EA		1" 90 Degree Copper Elbow.....	54.90	32.80
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.37	
			<i>For Street Fitting, Add</i>	2.30	
			<i>For Work In Restricted Working Space, Add</i>	14.74	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.66	
22 11 16 00-0443	EA		1-1/4" 90 Degree Copper Elbow .....	61.77	35.50
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.97	
			<i>For Street Fitting, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.40	
22 11 16 00-0444	EA		1-1/2" 90 Degree Copper Elbow .....	71.65	38.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.49	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.73	
			<i>For Street Fitting, Add</i>	5.39	
			<i>For Work In Restricted Working Space, Add</i>	17.45	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.40	
22 11 16 00-0445	EA		2" 90 Degree Copper Elbow .....	89.76	43.53
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.78	
			<i>For Street Fitting, Add</i>	9.83	
			<i>For Work In Restricted Working Space, Add</i>	19.56	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.01	
22 11 16 00-0446	EA		2-1/2" 90 Degree Copper Elbow .....	114.67	44.33
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.06	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	19.95	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0447 EA 3" 90 Degree Copper Elbow.....	147.37	53.01
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.91	
For Work In Restricted Working Space, Add	23.83	
For Silver Solder Instead Of 95/5 Solder, Add	15.31	
22 11 16 00-0448 EA 4" 90 Degree Copper Elbow.....	277.54	75.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.51	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.90	
For Work In Restricted Working Space, Add	33.80	
For Silver Solder Instead Of 95/5 Solder, Add	25.14	
22 11 16 00-0449 EA 5" 90 Degree Copper Elbow.....	844.91	102.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-49.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.13	
For Work In Restricted Working Space, Add	46.27	
For Silver Solder Instead Of 95/5 Solder, Add	57.67	
22 11 16 00-0450 EA 6" 90 Degree Copper Elbow.....	1,145.14	149.71
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-68.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	33.66	
For Work In Restricted Working Space, Add	67.32	
For Silver Solder Instead Of 95/5 Solder, Add	79.70	
22 11 16 00-0451 EA 8" 90 Degree Copper Elbow.....	3,705.44	199.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-200.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	44.88	
For Work In Restricted Working Space, Add	89.77	
For Silver Solder Instead Of 95/5 Solder, Add	215.19	
<b>22 11 16 00-0452 90 Degree Brass Elbows (22 11 16 00-0436)</b>		
22 11 16 00-0453 EA 1/2" Drop Ear 90 Degree Brass Elbow.....	39.68	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.29	
22 11 16 00-0454 EA 3/4" Drop Ear 90 Degree Brass Elbow.....	60.30	27.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.07	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.17	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	7.13	
22 11 16 00-0455 EA 1/2" Flanged Sink 90 Degree Brass Elbow.....	45.09	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.56	
22 11 16 00-0456 EA 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	33.91	16.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.90	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.61	
For Work In Restricted Working Space, Add	7.22	
For Silver Solder Instead Of 95/5 Solder, Add	4.10	
22 11 16 00-0457 EA 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	40.15	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.32	
22 11 16 00-0458 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	53.51	27.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.17	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	6.79	
22 11 16 00-0459 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	88.73	32.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.37	
For Work In Restricted Working Space, Add	14.74	
For Silver Solder Instead Of 95/5 Solder, Add	9.35	
<b>22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)</b>		
22 11 16 00-0461 EA 1/2" Reducing 90 Degree Copper Elbow.....	41.60	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.39	
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow.....	47.14	27.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.17	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	6.47	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow.....	60.20	32.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.37	
For Work In Restricted Working Space, Add	14.74	
For Silver Solder Instead Of 95/5 Solder, Add	7.92	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow.....	81.33	35.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.97	
For Work In Restricted Working Space, Add	15.95	
For Silver Solder Instead Of 95/5 Solder, Add	9.38	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow .....	95.20	38.81
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.73	
For Work In Restricted Working Space, Add	17.45	
For Silver Solder Instead Of 95/5 Solder, Add	10.58	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow .....	115.03	43.53
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.01	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.78	
For Work In Restricted Working Space, Add	19.56	
For Silver Solder Instead Of 95/5 Solder, Add	12.27	
<b>22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)</b>		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow .....	25.77	13.38
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.01	
For Street Fitting, Add	2.28	
For Work In Restricted Working Space, Add	6.02	
For Silver Solder Instead Of 95/5 Solder, Add	3.29	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow .....	28.96	16.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.61	
For Street Fitting, Add	1.96	
For Work In Restricted Working Space, Add	7.22	
For Silver Solder Instead Of 95/5 Solder, Add	3.86	
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow .....	35.02	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Street Fitting, Add	0.77	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.06	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow .....	44.40	27.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.17	
For Street Fitting, Add	1.32	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	6.33	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow .....	57.35	32.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.37	
For Street Fitting, Add	3.28	
For Work In Restricted Working Space, Add	14.74	
For Silver Solder Instead Of 95/5 Solder, Add	7.78	
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow .....	64.27	35.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.87	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.97	
For Street Fitting, Add	4.45	
For Work In Restricted Working Space, Add	15.95	
For Silver Solder Instead Of 95/5 Solder, Add	8.53	
22 11 16 00-0474 EA 1-1/2" 45 Degree Copper Elbow .....	71.82	38.81
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.73	
For Street Fitting, Add	5.46	
For Work In Restricted Working Space, Add	17.45	
For Silver Solder Instead Of 95/5 Solder, Add	9.41	
22 11 16 00-0475 EA 2" 45 Degree Copper Elbow .....	87.96	43.53
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.78	
For Work In Restricted Working Space, Add	19.56	
For Silver Solder Instead Of 95/5 Solder, Add	10.92	
22 11 16 00-0476 EA 2-1/2" 45 Degree Copper Elbow .....	114.09	44.33
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.97	
For Work In Restricted Working Space, Add	19.95	
For Silver Solder Instead Of 95/5 Solder, Add	12.35	
22 11 16 00-0477 EA 3" 45 Degree Copper Elbow .....	150.05	53.01
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.91	
For Work In Restricted Working Space, Add	23.83	
For Silver Solder Instead Of 95/5 Solder, Add	15.44	
22 11 16 00-0478 EA 4" 45 Degree Copper Elbow .....	263.27	75.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.80	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.90	
For Work In Restricted Working Space, Add	33.80	
For Silver Solder Instead Of 95/5 Solder, Add	24.43	
22 11 16 00-0479 EA 5" 45 Degree Copper Elbow .....	737.48	102.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-44.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.13	
For Work In Restricted Working Space, Add	46.27	
For Silver Solder Instead Of 95/5 Solder, Add	52.30	
22 11 16 00-0480 EA 6" 45 Degree Copper Elbow .....	1,143.57	149.71
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-68.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	33.66	
For Work In Restricted Working Space, Add	67.32	
For Silver Solder Instead Of 95/5 Solder, Add	79.62	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Water Distribution</b>	<b>22 11</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0481	EA		8" 45 Degree Copper Elbow..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3,422.46 -186.08 44.88 89.77 201.05	199.58
<b>22 11 16 00-0482</b>			<b>Straight Copper And Brass Tees</b> (22 11 16 00-0436)		
22 11 16 00-0483	EA		1/4" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	36.48 -3.33 4.51 9.02 4.83	20.06
22 11 16 00-0484	EA		3/8" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.26 -3.87 5.42 10.83 5.67	24.07
22 11 16 00-0485	EA		1/2" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	51.94 -5.10 7.52 15.04 7.61	33.49
22 11 16 00-0486	EA		3/4" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	66.49 -6.43 9.33 18.65 9.54	41.52
22 11 16 00-0487	EA		1" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	87.18 -8.07 11.13 22.27 11.78	49.54
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	98.28 -8.93 12.03 24.07 12.94	53.55
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	114.57 -10.09 13.09 26.18 14.45	58.17
22 11 16 00-0490	EA		2" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	141.70 -12.00 14.74 29.49 16.91	65.59
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	185.62 -14.27 14.96 29.92 19.26	66.49
22 11 16 00-0492	EA		3" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	251.27 -18.57 18.01 36.02 24.57	80.07
22 11 16 00-0493	EA		4" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	485.64 -32.69 25.21 50.42 41.09	112.12
22 11 16 00-0494	EA		5" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,268.07 -74.90 34.49 68.99 86.40	153.40
22 11 16 00-0495	EA		6" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,756.16 -104.66 50.56 101.12 121.52	224.88
22 11 16 00-0496	EA		8" Straight Copper Tee ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5,922.90 -318.59 67.33 134.65 341.03	299.40
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	61.23 -5.57 7.52 15.04 8.08	33.49

**22 11 16 00-0498 Reducing Copper Tees** (22 11 16 00-0436)



<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0499 EA 3/8" Reducing Copper Tee.....	42.29	21.37
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.82	
For Work In Restricted Working Space, Add	9.63	
For Silver Solder Instead Of 95/5 Solder, Add	5.32	
22 11 16 00-0500 EA 1/2" Reducing Copper Tee.....	54.10	30.08
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.77	
For Work In Restricted Working Space, Add	13.54	
For Silver Solder Instead Of 95/5 Solder, Add	7.22	
22 11 16 00-0501 EA 3/4" Reducing Copper Tee.....	62.74	38.81
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.73	
For Work In Restricted Working Space, Add	17.45	
For Silver Solder Instead Of 95/5 Solder, Add	8.95	
22 11 16 00-0502 EA 1" Reducing Copper Tee.....	84.73	46.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.53	
For Work In Restricted Working Space, Add	21.06	
For Silver Solder Instead Of 95/5 Solder, Add	11.26	
22 11 16 00-0503 EA 1-1/4" Reducing Copper Tee.....	98.27	50.85
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.43	
For Work In Restricted Working Space, Add	22.87	
For Silver Solder Instead Of 95/5 Solder, Add	12.54	
22 11 16 00-0504 EA 1-1/2" Reducing Copper Tee.....	114.40	55.56
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.49	
For Work In Restricted Working Space, Add	24.98	
For Silver Solder Instead Of 95/5 Solder, Add	14.05	
22 11 16 00-0505 EA 2" Reducing Copper Tee.....	138.31	62.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.58	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.99	
For Work In Restricted Working Space, Add	27.98	
For Silver Solder Instead Of 95/5 Solder, Add	16.24	
22 11 16 00-0506 EA 2-1/2" Reducing Copper Tee.....	190.12	64.10
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.31	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.41	
For Work In Restricted Working Space, Add	28.81	
For Silver Solder Instead Of 95/5 Solder, Add	19.11	
22 11 16 00-0507 EA 3" Reducing Copper Tee.....	265.32	73.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.81	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.62	
For Work In Restricted Working Space, Add	33.25	
For Silver Solder Instead Of 95/5 Solder, Add	24.35	
22 11 16 00-0508 EA 4" Reducing Copper Tee.....	461.93	91.15
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-29.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.50	
For Work In Restricted Working Space, Add	41.00	
For Silver Solder Instead Of 95/5 Solder, Add	36.76	
<b>22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)</b>		
22 11 16 00-0510 EA 1/4" Copper Coupling.....	20.67	13.38
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.04	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.01	
For Work In Restricted Working Space, Add	6.02	
For Silver Solder Instead Of 95/5 Solder, Add	3.04	
22 11 16 00-0511 EA 3/8" Copper Coupling.....	24.89	16.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.45	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.61	
For Work In Restricted Working Space, Add	7.22	
For Silver Solder Instead Of 95/5 Solder, Add	3.65	
22 11 16 00-0512 EA 1/2" Copper Coupling.....	33.77	22.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.97	
For Work In Restricted Working Space, Add	9.93	
For Silver Solder Instead Of 95/5 Solder, Add	5.00	
22 11 16 00-0513 EA 3/4" Copper Coupling.....	42.48	27.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.17	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	6.24	
22 11 16 00-0514 EA 1" Copper Coupling.....	51.85	32.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.37	
For Work In Restricted Working Space, Add	14.74	
For Silver Solder Instead Of 95/5 Solder, Add	7.51	
22 11 16 00-0515 EA 1-1/4" Copper Coupling.....	57.92	35.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.97	
For Work In Restricted Working Space, Add	15.95	
For Silver Solder Instead Of 95/5 Solder, Add	8.21	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0516	EA		1-1/2" Copper Coupling.....	64.49	38.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.73	
			<i>For Work In Restricted Working Space, Add</i>	17.45	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.04	
22 11 16 00-0517	EA		2" Copper Coupling.....	75.70	43.13
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.78	
			<i>For Work In Restricted Working Space, Add</i>	19.56	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.30	
22 11 16 00-0518	EA		2-1/2" Copper Coupling.....	84.40	41.93
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.42	
			<i>For Work In Restricted Working Space, Add</i>	18.84	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.50	
22 11 16 00-0519	EA		3" Copper Coupling.....	105.13	50.80
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.36	
			<i>For Work In Restricted Working Space, Add</i>	22.72	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.83	
22 11 16 00-0520	EA		4" Copper Coupling.....	166.36	68.34
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.24	
			<i>For Work In Restricted Working Space, Add</i>	30.47	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.48	
22 11 16 00-0521	EA		5" Copper Coupling.....	273.53	124.68
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	20.78	
			<i>For Work In Restricted Working Space, Add</i>	41.56	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.53	
22 11 16 00-0522	EA		6" Copper Coupling.....	426.27	135.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-31.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	30.48	
			<i>For Work In Restricted Working Space, Add</i>	60.95	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.63	
22 11 16 00-0523	EA		8" Copper Coupling.....	992.84	179.62
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-63.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	40.45	
			<i>For Work In Restricted Working Space, Add</i>	80.90	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	76.61	
<b>22 11 16 00-0524</b>			<b>Reducing Copper Couplings</b> <small>(22 11 16 00-0436)</small>		
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling.....	21.40	13.34
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.01	
			<i>For Work In Restricted Working Space, Add</i>	6.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.08	
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling.....	29.99	19.05
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.58	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.36	
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling.....	39.53	24.78
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.83	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.57	
			<i>For Work In Restricted Working Space, Add</i>	11.13	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.69	
22 11 16 00-0528	EA		1" Reducing Copper Coupling.....	49.50	30.08
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.73	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.77	
			<i>For Work In Restricted Working Space, Add</i>	13.54	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.99	
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling.....	57.23	34.10
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.42	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.67	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.98	
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling.....	65.73	37.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.35	
			<i>For Work In Restricted Working Space, Add</i>	16.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.85	
22 11 16 00-0531	EA		2" Reducing Copper Coupling.....	77.26	41.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.95	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.25	
			<i>For Work In Restricted Working Space, Add</i>	18.50	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.03	
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling.....	95.31	42.21
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.49	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.09	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0533 EA 3" Reducing Copper Coupling.....	112.58	48.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.94	
For Work In Restricted Working Space, Add	21.89	
For Silver Solder Instead Of 95/5 Solder, Add	12.93	
22 11 16 00-0534 EA 4" Reducing Copper Coupling.....	174.70	64.10
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.41	
For Work In Restricted Working Space, Add	28.81	
For Silver Solder Instead Of 95/5 Solder, Add	18.34	
22 11 16 00-0535 EA 5" Reducing Copper Coupling.....	441.52	89.30
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-28.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.09	
For Work In Restricted Working Space, Add	40.17	
For Silver Solder Instead Of 95/5 Solder, Add	35.47	
22 11 16 00-0536 EA 6" Reducing Copper Coupling.....	656.43	120.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.83	
For Brazed Fittings Instead Of 95/5 Solder, Add	27.01	
For Work In Restricted Working Space, Add	54.02	
For Silver Solder Instead Of 95/5 Solder, Add	50.83	
22 11 16 00-0537 EA 8" Reducing Copper Coupling.....	1,272.09	174.94
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-76.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	39.34	
For Work In Restricted Working Space, Add	78.68	
For Silver Solder Instead Of 95/5 Solder, Add	89.83	
<b>22 11 16 00-0538 Male Copper Adapters (22 11 16 00-0436)</b>		
22 11 16 00-0539 EA 1/4" Male Copper Adapter.....	30.86	13.04
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.01	
For Work In Restricted Working Space, Add	6.02	
For Silver Solder Instead Of 95/5 Solder, Add	3.55	
22 11 16 00-0540 EA 3/8" Male Copper Adapter.....	29.46	16.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.61	
For Work In Restricted Working Space, Add	7.22	
For Silver Solder Instead Of 95/5 Solder, Add	3.88	
22 11 16 00-0541 EA 1/2" Male Copper Adapter.....	32.26	20.06
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.51	
For Work In Restricted Working Space, Add	9.02	
For Silver Solder Instead Of 95/5 Solder, Add	4.62	
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	40.81	25.08
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.90	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.57	
For Work In Restricted Working Space, Add	11.13	
For Silver Solder Instead Of 95/5 Solder, Add	5.75	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	52.53	29.09
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.78	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.47	
For Work In Restricted Working Space, Add	12.94	
For Silver Solder Instead Of 95/5 Solder, Add	6.94	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter.....	63.82	33.10
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.52	
For Work In Restricted Working Space, Add	15.04	
For Silver Solder Instead Of 95/5 Solder, Add	8.21	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter.....	73.17	38.11
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.52	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.57	
For Work In Restricted Working Space, Add	17.15	
For Silver Solder Instead Of 95/5 Solder, Add	9.37	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	100.31	48.65
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.98	
For Work In Restricted Working Space, Add	21.96	
For Silver Solder Instead Of 95/5 Solder, Add	12.34	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter.....	180.48	63.19
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.14	
For Work In Restricted Working Space, Add	28.28	
For Silver Solder Instead Of 95/5 Solder, Add	18.45	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	239.71	84.27
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.84	
For Work In Restricted Working Space, Add	37.68	
For Silver Solder Instead Of 95/5 Solder, Add	24.54	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	359.83	118.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.60	
For Work In Restricted Working Space, Add	53.20	
For Silver Solder Instead Of 95/5 Solder, Add	35.72	
<b>22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)</b>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0551	EA		1/4" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.96 -2.35 3.01 6.02 3.35	13.04
22 11 16 00-0552	EA		3/8" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.29 -2.77 3.61 7.22 3.97	16.05
22 11 16 00-0553	EA		1/2" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	33.57 -3.18 4.51 9.02 4.69	20.06
22 11 16 00-0554	EA		3/4" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.88 -3.95 5.57 11.13 5.81	25.08
22 11 16 00-0555	EA		1" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.05 -4.86 6.47 12.94 7.02	29.09
22 11 16 00-0556	EA		1-1/4" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	66.15 -5.81 7.52 15.04 8.32	33.10
22 11 16 00-0557	EA		1-1/2" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	82.23 -6.97 8.57 17.15 9.83	38.11
22 11 16 00-0558	EA		2" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.21 -9.02 10.98 21.96 12.68	48.65
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	208.44 -14.76 13.02 26.04 19.10	58.18
22 11 16 00-0560	EA		3" Female Copper Adapter ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	330.49 -22.80 18.84 37.68 29.08	84.27
<b>22 11 16 00-0561</b>			<b>Wrot Copper, Solder Union</b> <small>(22 11 16 00-0436)</small>		
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	39.33 -3.17 3.61 7.22 4.37	16.05
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	44.81 -3.70 4.36 8.73 5.15	19.36
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	45.83 -4.10 5.42 10.83 5.90	24.07
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.06 -4.71 6.17 12.33 6.76	27.48
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.68 -5.94 7.37 14.74 8.40	32.80
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union ..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.90 -6.90 8.12 16.25 9.61	36.11

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	102.11 -8.11 9.03 18.05 11.12	40.12
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	143.69 -10.80 10.83 21.66 14.41	48.14
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	274.34 -17.69 11.91 23.83 21.66	53.01
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	617.06 -36.49 16.90 33.80 42.12	75.18
<b>22 11 16 00-0572 Cast Bronze, Solder Union (22 11 16 00-0436)</b>					
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	44.96 -3.45 3.61 7.22 4.66	16.05
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	50.12 -3.96 4.36 8.73 5.42	19.36
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	47.31 -4.17 5.42 10.83 5.98	24.07
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	55.15 -4.81 6.17 12.33 6.87	27.48
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	73.30 -6.12 7.37 14.74 8.58	32.80
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	93.81 -7.40 8.12 16.25 10.11	36.11
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	112.45 -8.63 9.03 18.05 11.64	40.12
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	161.29 -11.68 10.83 21.66 15.29	48.14
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	274.32 -17.69 11.91 23.83 21.66	53.01
22 11 16 00-0582	EA		3" Cast Bronze, Solder Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	617.06 -36.49 16.90 33.80 42.12	75.18
<b>22 11 16 00-0583 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)</b>					
22 11 16 00-0584	EA		1/4" Cast Bronze, Solder X Female Threaded Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.56 -3.83 3.61 7.22 5.04	16.05
22 11 16 00-0585	EA		3/8" Cast Bronze, Solder X Female Threaded Union ..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.56 -4.38 4.36 8.73 5.84	19.36



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Water Distribution</b>	<b>22 11</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0586	EA		1/2" Cast Bronze, Solder X Female Threaded Union.....	59.52	24.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	10.83	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.59	
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	73.02	27.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.71	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.17	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.76	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union.....	115.51	32.80
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.37	
			<i>For Work In Restricted Working Space, Add</i>	14.74	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.69	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	177.85	36.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.12	
			<i>For Work In Restricted Working Space, Add</i>	16.25	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.31	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	216.88	40.12
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.03	
			<i>For Work In Restricted Working Space, Add</i>	18.05	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.86	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union.....	337.46	48.14
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.48	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.83	
			<i>For Work In Restricted Working Space, Add</i>	21.66	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.09	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	582.24	53.01
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-33.08	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.91	
			<i>For Work In Restricted Working Space, Add</i>	23.83	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	37.05	
<b>22 11 16 00-0593</b>			<b>Cast Bronze, Solder X Male Threaded Union</b> <small>(22 11 16 00-0436)</small>		
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	45.77	16.05
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.49	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.61	
			<i>For Work In Restricted Working Space, Add</i>	7.22	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.70	
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	54.41	19.36
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.18	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	8.73	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.63	
22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	54.59	24.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.54	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	10.83	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.34	
22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	68.84	27.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.50	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.17	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.55	
22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union.....	117.42	32.80
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.33	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.37	
			<i>For Work In Restricted Working Space, Add</i>	14.74	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.79	
22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	138.86	36.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.12	
			<i>For Work In Restricted Working Space, Add</i>	16.25	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.36	
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	149.15	40.12
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.03	
			<i>For Work In Restricted Working Space, Add</i>	18.05	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.48	
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union.....	208.87	48.14
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.05	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.83	
			<i>For Work In Restricted Working Space, Add</i>	21.66	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.66	
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	479.90	53.01
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-27.97	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.91	
			<i>For Work In Restricted Working Space, Add</i>	23.83	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.94	
<b>22 11 16 00-0603</b>			<b>Copper Caps</b> <small>(22 11 16 00-0436)</small>		



<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0604 EA 1/4" Copper Cap .....4.69		2.53
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	0.56	
For Work In Restricted Working Space, Add	1.13	
For Silver Solder Instead Of 95/5 Solder, Add	0.61	
22 11 16 00-0605 EA 3/8" Copper Cap .....5.49		2.67
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	0.60	
For Work In Restricted Working Space, Add	1.20	
For Silver Solder Instead Of 95/5 Solder, Add	0.68	
22 11 16 00-0606 EA 1/2" Copper Cap .....5.02		2.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	0.64	
For Work In Restricted Working Space, Add	1.28	
For Silver Solder Instead Of 95/5 Solder, Add	0.68	
22 11 16 00-0607 EA 3/4" Copper Cap .....6.77		3.61
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	0.80	
For Work In Restricted Working Space, Add	1.60	
For Silver Solder Instead Of 95/5 Solder, Add	0.87	
22 11 16 00-0608 EA 1" Copper Cap .....10.12		4.56
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.02	
For Work In Restricted Working Space, Add	2.03	
For Silver Solder Instead Of 95/5 Solder, Add	1.18	
22 11 16 00-0609 EA 1-1/4" Copper Cap .....13.76		6.26
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.39	
For Work In Restricted Working Space, Add	2.78	
For Silver Solder Instead Of 95/5 Solder, Add	1.62	
22 11 16 00-0610 EA 1-1/2" Copper Cap .....17.43		7.36
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.64	
For Work In Restricted Working Space, Add	3.27	
For Silver Solder Instead Of 95/5 Solder, Add	1.96	
22 11 16 00-0611 EA 2" Copper Cap .....36.34		16.40
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.64	
For Work In Restricted Working Space, Add	7.29	
For Silver Solder Instead Of 95/5 Solder, Add	4.25	
22 11 16 00-0612 EA 2-1/2" Copper Cap .....73.04		24.94
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.54	
For Work In Restricted Working Space, Add	11.08	
For Silver Solder Instead Of 95/5 Solder, Add	7.35	
22 11 16 00-0613 EA 3" Copper Cap .....100.18		32.73
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.27	
For Work In Restricted Working Space, Add	14.54	
For Silver Solder Instead Of 95/5 Solder, Add	9.86	
22 11 16 00-0614 EA 4" Copper Cap .....155.31		38.97
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
For Work In Restricted Working Space, Add	17.32	
For Silver Solder Instead Of 95/5 Solder, Add	13.54	
22 11 16 00-0615 EA 5" Cast Bronze Cap.....766.12		53.47
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.31	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.02	
For Work In Restricted Working Space, Add	24.05	
For Silver Solder Instead Of 95/5 Solder, Add	46.32	
22 11 16 00-0616 EA 6" Cast Bronze Cap.....1,469.28		69.27
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-78.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.39	
For Work In Restricted Working Space, Add	30.78	
For Silver Solder Instead Of 95/5 Solder, Add	83.72	
22 11 16 00-0617 EA 8" Cast Bronze Cap.....1,882.28		99.74
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-101.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	22.16	
For Work In Restricted Working Space, Add	44.33	
For Silver Solder Instead Of 95/5 Solder, Add	108.89	
<b>22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)</b>		
22 11 16 00-0619 EA 1/2" Copper Cross.....72.97		40.64
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.14	
For Work In Restricted Working Space, Add	18.29	
For Silver Solder Instead Of 95/5 Solder, Add	9.74	
22 11 16 00-0620 EA 3/4" Copper Cross.....99.07		50.52
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.36	
For Work In Restricted Working Space, Add	22.72	
For Silver Solder Instead Of 95/5 Solder, Add	12.53	





	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Water Distribution</b>	<b>22 11</b>

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0621	EA		1" Copper Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	130.16 -11.03 13.58 27.15 15.56	60.30
22 11 16 00-0622	EA		1-1/4" Copper Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	154.88 -12.64 14.68 29.37 17.53	65.29
22 11 16 00-0623	EA		1-1/2" Copper Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	188.36 -14.77 16.07 32.14 20.13	71.39
22 11 16 00-0624	EA		2" Copper Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	273.51 -19.68 18.01 36.02 25.68	80.07
22 11 16 00-0625	EA		2-1/2" Copper Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	486.71 -30.99 19.95 39.90 37.63	88.66
<b>22 11 16 00-0626</b>			<b>Cast Bronze Crosses</b> (22 11 16 00-0436)		
22 11 16 00-0627	EA		3/8" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	60.34 -5.23 6.65 13.30 7.45	29.55
22 11 16 00-0628	EA		1/2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	75.37 -6.82 9.14 18.29 9.86	40.64
22 11 16 00-0629	EA		3/4" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	103.74 -8.97 11.36 22.72 12.76	50.52
22 11 16 00-0630	EA		1" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	138.08 -11.43 13.58 27.15 15.96	60.30
22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	166.28 -13.21 14.68 29.37 18.10	65.29
22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	204.60 -15.59 16.07 32.14 20.94	71.39
22 11 16 00-0633	EA		2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	304.20 -21.21 18.01 36.02 27.22	80.07
22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	557.46 -34.52 19.95 39.90 41.17	88.66
<b>22 11 16 00-0635</b>			<b>Flexible Corrugated Copper Supply Line</b> (22 11 16 00-0436)		
22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line.....	77.28	27.48
22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line.....	81.63	27.48
22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line.....	69.45	27.48
22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line.....	74.38	27.48
22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line.....	78.73	27.48
22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line.....	81.63	27.48
<b>22 11 16 00-0642</b>			<b>Crimped Copper Fittings</b> (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
<b>22 11 16 00-0643</b>			<b>Crimped Copper 90 Degree Elbows</b> (22 11 16 00-0642)		
22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow.....	20.00	12.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0645 EA 3/4" Crimped Copper 90 Degree Elbow .....	23.87	13.74
22 11 16 00-0646 EA 1" Crimped Copper 90 Degree Elbow .....	31.21	16.35
22 11 16 00-0647 EA 1-1/4" Crimped Copper 90 Degree Elbow .....	40.48	18.05
22 11 16 00-0648 EA 1-1/2" Crimped Copper 90 Degree Elbow .....	55.45	20.06
22 11 16 00-0649 EA 2" Crimped Copper 90 Degree Elbow .....	71.37	24.07
22 11 16 00-0650 EA 2-1/2" Crimped Copper 90 Degree Elbow .....	144.54	28.08
22 11 16 00-0651 EA 3" Crimped Copper 90 Degree Elbow .....	179.00	33.39
22 11 16 00-0652 EA 4" Crimped Copper 90 Degree Elbow .....	225.61	44.13
<b>22 11 16 00-0653 Crimped Copper 45 Degree Elbows (22 11 16 00-0642)</b>		
22 11 16 00-0654 EA 1/2" Crimped Copper 45 Degree Elbow .....	20.33	12.04
22 11 16 00-0655 EA 3/4" Crimped Copper 45 Degree Elbow .....	23.36	13.74
22 11 16 00-0656 EA 1" Crimped Copper 45 Degree Elbow .....	33.55	16.35
22 11 16 00-0657 EA 1-1/4" Crimped Copper 45 Degree Elbow .....	39.96	18.05
22 11 16 00-0658 EA 1-1/2" Crimped Copper 45 Degree Elbow .....	50.96	20.06
22 11 16 00-0659 EA 2" Crimped Copper 45 Degree Elbow .....	65.32	24.07
22 11 16 00-0660 EA 2-1/2" Crimped Copper 45 Degree Elbow .....	109.78	28.08
22 11 16 00-0661 EA 3" Crimped Copper 45 Degree Elbow .....	146.80	33.39
22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow .....	200.43	44.13
<b>22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)</b>		
22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee .....	30.07	18.05
22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee .....	40.87	23.77
22 11 16 00-0666 EA 1" Crimped Copper Straight Tee .....	49.12	26.37
22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee .....	56.69	27.08
22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee .....	77.35	30.79
22 11 16 00-0669 EA 2" Crimped Copper Straight Tee .....	92.73	36.11
22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee .....	189.73	42.12
22 11 16 00-0671 EA 3" Crimped Copper Straight Tee .....	233.39	50.14
22 11 16 00-0672 EA 4" Crimped Copper Straight Tee .....	321.23	66.19
<b>22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)</b>		
22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee .....	33.90	17.15
22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee .....	48.23	22.56
22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee .....	52.31	25.08
22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee .....	66.33	25.77
22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee .....	78.90	29.19
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee .....	198.79	33.10
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee .....	242.15	40.12
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee .....	287.26	53.45
<b>22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)</b>		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling .....	19.81	12.04
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling .....	23.23	13.74
22 11 16 00-0685 EA 1" Crimped Copper Coupling .....	29.97	16.35
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling .....	33.78	18.05
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling .....	42.57	20.06
22 11 16 00-0688 EA 2" Crimped Copper Coupling .....	52.05	24.07
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling .....	93.13	28.08
22 11 16 00-0690 EA 3" Crimped Copper Coupling .....	115.10	33.39
22 11 16 00-0691 EA 4" Crimped Copper Coupling .....	156.40	44.13
<b>22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)</b>		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling .....	25.15	11.43
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling .....	28.74	13.04
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling .....	36.71	15.54
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling .....	45.41	17.15
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling .....	50.71	19.05
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling .....	94.36	22.76
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling .....	116.98	26.78
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling .....	152.31	35.40
<b>22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)</b>		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter .....	20.20	12.04
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter .....	24.46	13.74
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter .....	31.72	16.35
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter .....	42.76	18.05
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter .....	52.07	20.06
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter .....	78.46	24.07
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter .....	144.54	28.08
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter .....	179.00	33.39
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter .....	215.35	44.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 16 00-0711</b>				<b>Crimped Copper Female Adapters</b> (22 11 16 00-0642)		
			EA	1/2" Crimped Copper Female Adapter.....	20.65	12.04
			EA	3/4" Crimped Copper Female Adapter.....	24.79	13.74
			EA	1" Crimped Copper Female Adapter.....	32.38	16.35
			EA	1-1/4" Crimped Copper Female Adapter.....	44.71	18.05
			EA	1-1/2" Crimped Copper Female Adapter.....	55.71	20.06
			EA	2" Crimped Copper Female Adapter.....	79.63	24.07
<b>22 11 16 00-0718</b>				<b>Crimped Copper Caps</b> (22 11 16 00-0642)		
			EA	1/2" Crimped Copper Cap.....	12.80	6.01
			EA	3/4" Crimped Copper Cap.....	16.90	7.02
			EA	1" Crimped Copper Cap.....	21.86	8.02
			EA	1-1/4" Crimped Copper Cap.....	24.66	9.03
			EA	1-1/2" Crimped Copper Cap.....	32.78	10.33
			EA	2" Crimped Copper Cap.....	38.99	12.04
			EA	2-1/2" Crimped Copper Cap.....	88.04	14.04
			EA	3" Crimped Copper Cap.....	109.84	16.75
			EA	4" Crimped Copper Cap.....	146.04	22.06
<b>22 11 16 00-0728</b>				<b>C x F NPT Crimped Bronze Unions</b> (22 11 16 00-0642)		
			EA	1/2" C x F NPT Crimped Bronze Union.....	35.63	16.35
			EA	3/4" C x F NPT Crimped Bronze Union.....	44.37	20.16
			EA	1" C x F NPT Crimped Bronze Union.....	59.76	24.17
			EA	1-1/4" C x F NPT Crimped Bronze Union.....	71.72	27.88
			EA	1-1/2" C x F NPT Crimped Bronze Union.....	87.76	27.28
			EA	2" C x F NPT Crimped Bronze Union.....	121.23	39.52
<b>22 11 16 00-0735</b>				<b>C x C Crimped Bronze Unions</b> (22 11 16 00-0642)		
			EA	1/2" C x C Bronze Crimped Union.....	31.84	12.04
			EA	3/4" C x C Bronze Crimped Union.....	38.64	13.74
			EA	1" C x C Bronze Crimped Union.....	53.45	16.35
			EA	1-1/4" C x C Bronze Crimped Union.....	68.32	18.05
			EA	1-1/2" C x C Bronze Crimped Union.....	86.09	20.06
			EA	2" C x C Bronze Crimped Union.....	127.58	24.07
<b>22 11 16 00-0742</b>				<b>C x Flange Crimped Bronze Flange</b> (22 11 16 00-0642)		
			EA	2-1/2" C x Flange Crimped Bronze Flange.....	237.96	28.08
			EA	3" C x Flange Crimped Bronze Flange.....	260.93	33.39
			EA	4" C x Flange Crimped Bronze Flange.....	302.16	44.13
<b>22 11 16 00-0746</b>				<b>Field Installed FKM Seals</b> (22 11 16 00-0642)		
			EA	1/2" Field Installed FKM Seal.....	5.61	
				Note: To be used in conjunction with fittings.		
			EA	3/4" Field Installed FKM Seal.....	6.96	
				Note: To be used in conjunction with fittings.		
			EA	1" Field Installed FKM Seal.....	7.96	
				Note: To be used in conjunction with fittings.		
			EA	1-1/4" Field Installed FKM Seal.....	9.11	
				Note: To be used in conjunction with fittings.		
			EA	1-1/2" Field Installed FKM Seal.....	12.20	
				Note: To be used in conjunction with fittings.		
			EA	2" Field Installed FKM Seal.....	13.71	
				Note: To be used in conjunction with fittings.		
			EA	2-1/2" Field Installed FKM Seal.....	19.44	
				Note: To be used in conjunction with fittings.		
			EA	3" Field Installed FKM Seal.....	22.49	
				Note: To be used in conjunction with fittings.		
			EA	4" Field Installed FKM Seal.....	30.47	
				Note: To be used in conjunction with fittings.		
<b>22 11 16 00-0756</b>				<b>Cut And Prepare Existing In-Place Copper Pipe</b> (22 11 16 00-0368)		
			EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	10.02	
			EA	3/4", Cut And Prepare Existing In Place Copper Pipe.....	10.83	
			EA	1", Cut And Prepare Existing In Place Copper Pipe.....	12.19	
			EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	12.79	
			EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	13.53	
			EA	2", Cut And Prepare Existing In Place Copper Pipe.....	14.89	
			EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	16.05	
			EA	3", Cut And Prepare Existing In Place Copper Pipe.....	18.95	
			EA	4", Cut And Prepare Existing In Place Copper Pipe.....	25.57	
			EA	6", Cut And Prepare Existing In Place Copper Pipe.....	36.55	
			EA	8", Cut And Prepare Existing In Place Copper Pipe.....	48.75	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0768			<b>Sweat Brass Companion Flanges</b> (22 11 16 00-0368)		
22 11 16 00-0769	EA		1" Sweat Brass Companion Flange .....	56.23	15.42
22 11 16 00-0770	EA		1-1/4" Sweat Brass Companion Flange .....	61.38	16.99
22 11 16 00-0771	EA		1-1/2" Sweat Brass Companion Flange .....	87.68	18.47
22 11 16 00-0772	EA		2" Sweat Brass Companion Flange .....	117.29	20.50
22 11 16 00-0773	EA		2-1/2" Sweat Brass Companion Flange .....	148.27	24.65
22 11 16 00-0774	EA		3" Sweat Brass Companion Flange .....	163.70	32.32
22 11 16 00-0775	EA		4" Sweat Brass Companion Flange .....	218.50	38.52
22 11 16 00-0776	EA		5" Sweat Brass Companion Flange .....	409.59	45.41
22 11 16 00-0777	EA		6" Sweat Brass Companion Flange .....	472.79	65.98
22 11 16 00-0778	EA		8" Copper Companion Flange .....	1,088.36	94.10
22 11 16 00-0779			<b>Brass Compression Fittings</b> (22 11 16 00-0368)		
22 11 16 00-0780			<b>Brass Compression Unions</b> (22 11 16 00-0779)		
22 11 16 00-0781	EA		1/4" Brass Compression Union .....	17.13	10.83
22 11 16 00-0782	EA		3/8" Brass Compression Union .....	17.37	10.83
22 11 16 00-0783	EA		1/2" Brass Compression Union .....	18.11	10.83
22 11 16 00-0784	EA		5/8" Brass Compression Union .....	18.46	10.83
22 11 16 00-0785	EA		3/4" Brass Compression Union .....	23.40	10.83
22 11 16 00-0786	EA		3/8" x 1/4" Brass Compression Union .....	17.54	10.83
22 11 16 00-0787	EA		1/2" x 3/8" Brass Compression Union .....	18.16	10.83
22 11 16 00-0788	EA		5/8" x 3/8" Brass Compression Union .....	18.60	10.83
22 11 16 00-0789	EA		5/8" x 1/2" Brass Compression Union .....	19.30	10.83
22 11 16 00-0790			<b>Brass Compression Union Elbows</b> (22 11 16 00-0779)		
22 11 16 00-0791	EA		1/4" Brass Compression Union Elbow .....	18.11	10.83
22 11 16 00-0792	EA		3/8" Brass Compression Union Elbow .....	18.50	10.83
22 11 16 00-0793	EA		1/2" Brass Compression Union Elbow .....	19.38	10.83
22 11 16 00-0794	EA		5/8" Brass Compression Union Elbow .....	20.73	10.83
22 11 16 00-0795	EA		3/4" Brass Compression Union Elbow .....	26.01	10.83
22 11 16 00-0796	EA		3/8" x 1/4" Brass Compression Union Elbow .....	18.50	10.83
22 11 16 00-0797	EA		1/2" x 3/8" Brass Compression Union Elbow .....	19.38	10.83
22 11 16 00-0798	EA		5/8" x 3/8" Brass Compression Union Elbow .....	19.62	10.83
22 11 16 00-0799	EA		5/8" x 1/2" Brass Compression Union Elbow .....	23.59	10.83
22 11 16 00-0800			<b>Brass Compression Union Tees</b> (22 11 16 00-0779)		
22 11 16 00-0801	EA		1/4" Brass Compression Union Tee .....	18.41	10.83
22 11 16 00-0802	EA		3/8" Brass Compression Union Tee .....	19.23	10.83
22 11 16 00-0803	EA		1/2" Brass Compression Union Tee .....	20.10	10.83
22 11 16 00-0804	EA		5/8" Brass Compression Union Tee .....	22.86	10.83
22 11 16 00-0805	EA		3/4" Brass Compression Union Tee .....	32.40	10.83
22 11 16 00-0806	EA		3/8" x 3/8" x 1/4" Brass Compression Union Tee .....	19.81	10.83
22 11 16 00-0807	EA		1/2" x 1/2" x 3/8" Brass Compression Union Tee .....	24.29	10.83
22 11 16 00-0808	EA		5/8" x 5/8" x 3/8" Brass Compression Union Tee .....	23.86	10.83
22 11 16 00-0809	EA		5/8" x 5/8" x 1/2" Brass Compression Union Tee .....	24.36	10.83
22 11 16 00-0810			<b>Brass Compression Male Connectors</b> (22 11 16 00-0779)		
22 11 16 00-0811	EA		1/4" Brass Compression Male Connector .....	16.95	10.83
22 11 16 00-0812	EA		3/8" Brass Compression Male Connector .....	17.27	10.83
22 11 16 00-0813	EA		1/2" Brass Compression Male Connector .....	17.83	10.83
22 11 16 00-0814	EA		5/8" Brass Compression Male Connector .....	18.65	10.83
22 11 16 00-0815	EA		3/4" Brass Compression Male Connector .....	21.24	10.73
22 11 16 00-0816			<b>Brass Compression Female Connectors</b> (22 11 16 00-0779)		
22 11 16 00-0817	EA		1/4" Brass Compression Female Connector .....	17.30	10.83
22 11 16 00-0818	EA		3/8" Brass Compression Female Connector .....	17.72	10.83
22 11 16 00-0819	EA		1/2" Brass Compression Female Connector .....	18.42	10.83
22 11 16 00-0820	EA		5/8" Brass Compression Female Connector .....	18.87	10.83
22 11 16 00-0821	EA		3/4" Brass Compression Female Connector .....	26.20	10.63
22 11 16 00-0822			<b>Dielectric Fittings</b> (22 11 16 00-0368)		
22 11 16 00-0823			<b>Copper x Female Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0822)		
22 11 16 00-0824	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union .....	43.41	24.07
22 11 16 00-0825	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union .....	48.41	27.48
22 11 16 00-0826	EA		1" Copper x Female Iron Pipe Thread Dielectric Union .....	57.95	30.20
22 11 16 00-0827	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union .....	70.68	33.24
22 11 16 00-0828	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union .....	85.91	36.94
22 11 16 00-0829	EA		2" Copper x Female Iron Pipe Thread Dielectric Union .....	109.48	44.33



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 16 00-0830</b>				<b>Female Brass Thread x Iron Pipe Thread Dielectric Unions</b> <small>(22 11 16 00-0822)</small>		
22 11 16 00-0831	EA			1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	48.02	24.07
22 11 16 00-0832	EA			3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	56.00	27.48
22 11 16 00-0833	EA			1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	67.96	30.20
22 11 16 00-0834	EA			1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	83.96	33.24
22 11 16 00-0835	EA			1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	102.34	36.94
22 11 16 00-0836	EA			2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	128.75	44.33
<b>22 11 16 00-0837</b>				<b>Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions</b> <small>(22 11 16 00-0822)</small>		
22 11 16 00-0838	EA			1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	45.10	24.07
22 11 16 00-0839	EA			3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	51.18	27.48
22 11 16 00-0840	EA			1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	58.68	30.20
22 11 16 00-0841	EA			1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	68.11	33.24
22 11 16 00-0842	EA			1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	83.37	36.94
22 11 16 00-0843	EA			2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	107.44	44.33
<b>22 11 16 00-0844</b>				<b>Copper x Female Iron Pipe Thread Dielectric Flanges</b> <small>(22 11 16 00-0822)</small>		
22 11 16 00-0845	EA			2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	265.71	113.97
22 11 16 00-0846	EA			3" Copper x Female Iron Pipe Thread Dielectric Flange.....	332.52	143.52
22 11 16 00-0847	EA			4" Copper x Female Iron Pipe Thread Dielectric Flange.....	469.81	195.32
<b>22 11 16 00-0848</b>				<b>Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges</b> <small>(22 11 16 00-0822)</small>		
22 11 16 00-0849	EA			2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	267.62	113.97
22 11 16 00-0850	EA			3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	347.63	143.52
22 11 16 00-0851	EA			4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	644.17	195.32
<b>22 11 16 00-0852</b>				<b>Brass Push-Fit Fittings</b> <small>(22 11 16)</small>		
22 11 16 00-0853	EA			1/4" x 1/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	19.72	10.02
22 11 16 00-0854	EA			3/8" x 3/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	23.75	10.70
22 11 16 00-0855	EA			1/2" x 1/2" Brass Push-Fit Coupling..... Note: (Sharkbite)	25.01	12.04
22 11 16 00-0856	EA			5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	28.36	12.84
22 11 16 00-0857	EA			3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	29.17	13.72
22 11 16 00-0858	EA			1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	39.78	16.38
22 11 16 00-0859	EA			1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	24.38	11.36
22 11 16 00-0860	EA			3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	27.91	12.44
22 11 16 00-0861	EA			1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	40.11	15.04
22 11 16 00-0862	EA			1/4" x 1/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	20.40	10.02
22 11 16 00-0863	EA			3/8" x 3/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	26.63	10.70
22 11 16 00-0864	EA			1/2" x 1/2" Brass Push-Fit Elbow..... Note: (Sharkbite)	25.38	12.04
22 11 16 00-0865	EA			5/8" x 5/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	30.04	12.84
22 11 16 00-0866	EA			3/4" x 3/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	28.69	13.72
22 11 16 00-0867	EA			1" x 1" Brass Push-Fit Elbow..... Note: (Sharkbite)	40.15	16.38
22 11 16 00-0868	EA			1/2" x 3/8" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	24.07	11.36
22 11 16 00-0869	EA			3/4" x 1/2" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	26.72	12.44
22 11 16 00-0870	EA			1" x 3/4" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	48.37	15.04
22 11 16 00-0871	EA			1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	30.87	15.04
22 11 16 00-0872	EA			3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	37.84	16.05
22 11 16 00-0873	EA			1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	36.07	18.05
22 11 16 00-0874	EA			5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	44.35	19.26
22 11 16 00-0875	EA			3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	41.86	20.56
22 11 16 00-0876	EA			1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	55.74	24.57
22 11 16 00-0877	EA			1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	39.12	17.05



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0878	EA	1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee ..... Note: (Sharkbite)	39.43	17.39
22 11 16 00-0879	EA	3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee ..... Note: (Sharkbite)	40.36	19.73
22 11 16 00-0880	EA	1" x 1" x 3/4" Brass Push-Fit Reducing Tee ..... Note: (Sharkbite)	53.82	23.24
22 11 16 00-0881	EA	1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	23.10	11.03
22 11 16 00-0882	EA	3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	23.02	11.36
22 11 16 00-0883	EA	1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	23.09	12.04
22 11 16 00-0884	EA	3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	26.41	13.72
22 11 16 00-0885	EA	1" x 1" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	35.90	16.38
22 11 16 00-0886	EA	1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	20.79	11.03
22 11 16 00-0887	EA	3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	23.02	11.36
22 11 16 00-0888	EA	1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	23.14	12.04
22 11 16 00-0889	EA	3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	26.20	13.72
22 11 16 00-0890	EA	5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	27.79	13.27
22 11 16 00-0891	EA	1" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	32.97	15.04
22 11 16 00-0892	EA	1" x 1" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	36.33	16.38
22 11 16 00-0893	EA	1/2" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	31.09	12.04
22 11 16 00-0894	EA	3/4" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	36.20	13.72
22 11 16 00-0895	EA	1" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	47.10	16.38
22 11 16 00-0896	EA	1/2" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	32.95	12.04
22 11 16 00-0897	EA	3/4" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	39.34	13.72
22 11 16 00-0898	EA	1" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	63.43	16.38
22 11 16 00-0899		<b>Copper Pipe Assemblies</b> <sup>(22 11 16)</sup> Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF	1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.18 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.01 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.51 <i>For For Brazed Fittings, Add</i> 0.63 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.73 <i>For Work In Restricted Working Space, Add</i> 4.71	18.86	2.81
22 11 16 00-0901	LF	3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.35 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.15 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.85 <i>For For Brazed Fittings, Add</i> 0.71 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.96 <i>For Work In Restricted Working Space, Add</i> 5.33	21.43	3.61
22 11 16 00-0902	LF	1" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.54 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.29 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.02 <i>For For Brazed Fittings, Add</i> 0.75 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.09 <i>For Work In Restricted Working Space, Add</i> 5.59	23.21	4.31
22 11 16 00-0903	LF	1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.87 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.53 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.22 <i>For For Brazed Fittings, Add</i> 0.77 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.25 <i>For Work In Restricted Working Space, Add</i> 5.81 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.63	25.67	5.02





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0904 LF 1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.14 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.73 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.47 <i>For For Brazed Fittings, Add</i> 0.83 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.44 <i>For Work In Restricted Working Space, Add</i> 6.19 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.75	28.17	5.72
22 11 16 00-0905 LF 2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.83 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.24 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.10 <i>For For Brazed Fittings, Add</i> 0.95 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.92 <i>For Work In Restricted Working Space, Add</i> 7.13 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.08	34.54	7.12
22 11 16 00-0906 LF 2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.83 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.95 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.63 <i>For For Brazed Fittings, Add</i> 1.02 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.35 <i>For Work In Restricted Working Space, Add</i> 7.64 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.61	41.59	8.59
22 11 16 00-0907 LF 3" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.99 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.78 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.26 <i>For For Brazed Fittings, Add</i> 1.10 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.88 <i>For Work In Restricted Working Space, Add</i> 8.28 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.23	49.90	9.98
22 11 16 00-0908 LF 4" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 8.43 <i>For Type M Tubing Instead Of Type L, Deduct</i> -6.25 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 7.36 <i>For For Brazed Fittings, Add</i> 1.43 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -5.58 <i>For Work In Restricted Working Space, Add</i> 10.71 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -4.02	75.84	13.21
22 11 16 00-0909 LF 5" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 17.78 <i>For Type M Tubing Instead Of Type L, Deduct</i> -12.81 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 11.45 <i>For For Brazed Fittings, Add</i> 1.83 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -9.15 <i>For Work In Restricted Working Space, Add</i> 13.74 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -9.15	137.28	16.44
22 11 16 00-0910 LF 6" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 23.43 <i>For Type M Tubing Instead Of Type L, Deduct</i> -16.84 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 14.78 <i>For For Brazed Fittings, Add</i> 2.33 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -11.87 <i>For Work In Restricted Working Space, Add</i> 17.45 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -12.10	179.16	19.86
22 11 16 00-0911 LF 8" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 61.86 <i>For Type M Tubing Instead Of Type L, Deduct</i> -43.47 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 27.75 <i>For For Brazed Fittings, Add</i> 2.89 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -24.14 <i>For Work In Restricted Working Space, Add</i> 21.69 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -33.81	410.41	23.74

- 22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16)  
Note: Socket weld.
- 22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>22 11 16 00-0914</b>	<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0915	LF 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	5.34	1.48
	<i>For Work In Restricted Working Space, Add</i>	1.10	
22 11 16 00-0916	LF 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	6.15	1.55
	<i>For Work In Restricted Working Space, Add</i>	1.16	
22 11 16 00-0917	LF 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	7.49	1.67
	<i>For Work In Restricted Working Space, Add</i>	1.25	
22 11 16 00-0918	LF 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....	9.16	1.82
	<i>For Work In Restricted Working Space, Add</i>	1.37	
22 11 16 00-0919	LF 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....	10.60	2.01
	<i>For Work In Restricted Working Space, Add</i>	1.51	
22 11 16 00-0920	LF 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	13.32	2.25
	<i>For Work In Restricted Working Space, Add</i>	1.69	
22 11 16 00-0921	LF 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....	18.18	2.56
	<i>For Work In Restricted Working Space, Add</i>	1.92	
22 11 16 00-0922	LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	23.30	3.03
	<i>For Work In Restricted Working Space, Add</i>	2.27	
22 11 16 00-0923	LF 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	32.38	3.72
	<i>For Work In Restricted Working Space, Add</i>	2.79	
22 11 16 00-0924	LF 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	56.48	4.73
	<i>For Work In Restricted Working Space, Add</i>	3.55	
22 11 16 00-0925	LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	81.37	6.21
	<i>For Work In Restricted Working Space, Add</i>	4.65	
<b>22 11 16 00-0926</b>	<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0927	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	20.13	7.02
	<i>For Work In Restricted Working Space, Add</i>	5.26	
22 11 16 00-0928	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	26.19	8.86
	<i>For Work In Restricted Working Space, Add</i>	6.65	
22 11 16 00-0929	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	34.16	11.08
	<i>For Work In Restricted Working Space, Add</i>	8.34	
22 11 16 00-0930	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	46.98	13.85
	<i>For Work In Restricted Working Space, Add</i>	10.42	
22 11 16 00-0931	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	52.25	15.33
	<i>For Work In Restricted Working Space, Add</i>	11.52	
22 11 16 00-0932	EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	61.51	15.33
	<i>For Work In Restricted Working Space, Add</i>	12.86	
22 11 16 00-0933	EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	97.37	19.48
	<i>For Work In Restricted Working Space, Add</i>	14.63	
22 11 16 00-0934	EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	110.44	23.09
	<i>For Work In Restricted Working Space, Add</i>	17.29	
22 11 16 00-0935	EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	159.00	28.36
	<i>For Work In Restricted Working Space, Add</i>	21.28	
22 11 16 00-0936	EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	200.53	36.02
	<i>For Work In Restricted Working Space, Add</i>	27.04	
22 11 16 00-0937	EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	388.39	47.29
	<i>For Work In Restricted Working Space, Add</i>	35.46	
<b>22 11 16 00-0938</b>	<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0939	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	21.42	7.02
	<i>For Work In Restricted Working Space, Add</i>	5.26	
22 11 16 00-0940	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	27.73	8.86
	<i>For Work In Restricted Working Space, Add</i>	6.65	
22 11 16 00-0941	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	36.68	11.08
	<i>For Work In Restricted Working Space, Add</i>	8.34	
22 11 16 00-0942	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	50.29	13.85
	<i>For Work In Restricted Working Space, Add</i>	10.42	
22 11 16 00-0943	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	56.28	15.33
	<i>For Work In Restricted Working Space, Add</i>	11.52	
22 11 16 00-0944	EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	62.87	17.18
	<i>For Work In Restricted Working Space, Add</i>	12.86	
22 11 16 00-0945	EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	98.23	19.48
	<i>For Work In Restricted Working Space, Add</i>	14.63	
22 11 16 00-0946	EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	110.33	23.09
	<i>For Work In Restricted Working Space, Add</i>	17.29	
22 11 16 00-0947	EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	143.22	28.36
	<i>For Work In Restricted Working Space, Add</i>	21.28	
22 11 16 00-0948	EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	230.12	36.02
	<i>For Work In Restricted Working Space, Add</i>	27.04	
22 11 16 00-0949	EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	409.34	47.29
	<i>For Work In Restricted Working Space, Add</i>	35.46	
<b>22 11 16 00-0950</b>	<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0951	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	31.03	10.53
	<i>For Work In Restricted Working Space, Add</i>	7.90	
22 11 16 00-0952	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	40.76	13.30
	<i>For Work In Restricted Working Space, Add</i>	9.97	
22 11 16 00-0953	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	50.98	16.72
	<i>For Work In Restricted Working Space, Add</i>	12.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	71.56 15.62	20.87
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	79.96 17.29	23.09
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	97.58 19.28	25.67
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	127.85 21.95	29.27
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	145.97 25.94	34.54
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	176.70 31.92	42.58
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	272.59 40.56	54.12
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	570.65 53.20	70.93
<b>22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses</b> <small>(22 11 16 00-0913)</small>					
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	39.16 10.53	14.04
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	50.80 13.30	17.73
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	63.56 16.68	22.26
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	86.23 20.84	27.80
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	96.07 23.05	30.75
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	114.38 25.71	34.26
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	144.64 29.26	38.97
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	166.52 34.58	46.08
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	202.41 42.56	56.70
22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	298.61 54.08	72.13
22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	575.20 70.93	94.57
<b>22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts</b> <small>(22 11 16 00-0913)</small>					
22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	17.81 4.88	6.47
22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	24.91 6.57	8.77
22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	42.43 8.59	11.45
22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	47.97 9.50	12.65
22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	56.76 10.61	14.13
22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	61.66 12.08	16.07
22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	74.95 14.27	19.02
22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	102.44 17.57	23.37
22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	167.85 22.31	29.73
22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	378.84 29.26	38.97
<b>22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts</b> <small>(22 11 16 00-0913)</small>					
22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	21.69 3.47	4.62
22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	27.19 4.88	6.47
22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	33.61 6.57	8.77
22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	41.68 8.59	11.45
22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	49.08 9.50	12.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0991 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert ..... <i>For Work In Restricted Working Space, Add</i>	62.30 10.61	14.13
22 11 16 00-0992 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	97.82 12.08	16.07
22 11 16 00-0993 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert ..... <i>For Work In Restricted Working Space, Add</i>	197.89 14.27	19.02
22 11 16 00-0994 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert ..... <i>For Work In Restricted Working Space, Add</i>	295.48 17.57	23.37
<b>22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0996 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	15.43 3.47	4.62
22 11 16 00-0997 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	21.51 4.88	6.47
22 11 16 00-0998 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	30.73 6.57	8.77
22 11 16 00-0999 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	41.68 8.59	11.45
22 11 16 00-1000 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	49.33 9.50	12.65
22 11 16 00-1001 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	59.24 10.61	14.13
22 11 16 00-1002 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	85.46 12.08	16.07
22 11 16 00-1003 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	102.20 14.27	19.02
22 11 16 00-1004 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	150.93 17.57	23.37
<b>22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	16.91 3.47	4.62
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	21.98 4.88	6.47
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	30.86 6.57	8.77
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	42.11 8.59	11.45
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	47.35 9.50	12.65
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	57.62 10.61	14.13
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	86.39 12.08	16.07
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	118.52 14.27	19.02
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	178.68 17.57	23.37
<b>22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	13.84 3.16	4.24
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	19.45 4.43	5.91
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	26.15 5.96	7.95
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	35.42 7.81	10.43
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	40.65 8.65	11.55
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	45.87 9.64	12.84
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	69.50 10.97	14.60
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	76.47 12.97	17.27
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	96.76 15.96	21.24
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	153.56 20.28	27.06
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	262.82 26.60	35.47
<b>22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	26.74 3.80	5.08





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	32.51 5.32	7.11
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	39.07 7.15	9.52
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	67.05 9.36	12.46
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	71.03 10.36	13.85
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	99.14 11.58	15.42
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	169.40 13.16	17.54
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	241.59 15.57	20.78
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	386.29 19.14	25.49
22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	516.61 24.32	32.42
22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	638.40 31.92	42.58
<b>22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)</b>		
22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	8.72 1.05	1.39
22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	14.78 2.21	2.96
22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	24.99 3.57	4.80
22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	27.38 3.91	5.17
22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	29.03 4.32	5.72
22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	39.63 4.82	6.47
22 11 16 00-1046 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	60.71 5.49	7.29
22 11 16 00-1047 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	65.00 6.48	8.68
22 11 16 00-1048 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	99.79 7.98	10.62
22 11 16 00-1049 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	215.91 10.14	13.48
22 11 16 00-1050 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap ..... <i>For Work In Restricted Working Space, Add</i>	278.17 13.30	17.73
<b>22 11 16 00-1051 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0913)</b>		
22 11 16 00-1052 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	20.98 2.52	3.33
22 11 16 00-1053 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	25.30 3.55	4.71
22 11 16 00-1054 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	30.91 4.76	6.38
22 11 16 00-1055 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	36.33 6.26	8.31
22 11 16 00-1056 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	38.91 6.93	9.23
22 11 16 00-1057 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	46.70 7.70	10.25
22 11 16 00-1058 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	62.10 8.78	11.73
22 11 16 00-1059 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	70.34 10.36	13.85
22 11 16 00-1060 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	87.95 12.77	16.99
22 11 16 00-1061 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	125.44 16.24	21.61
22 11 16 00-1062 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	231.83 21.28	28.36
<b>22 11 19 Domestic Water Piping Specialties (22 11)</b>		
<b>22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)</b>		
<b>22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)</b>		
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	4.76	2.00
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.34	2.00
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.09	2.00
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.12	2.00
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.58	2.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp .....	10.93	2.99
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp .....	11.96	3.99
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp .....	20.06	3.99
<b>22 11 19 00-0011 Reinforced EPDM Water Hose Assembly</b> (22 11 19 00-0001) Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement .....	25.06	3.99
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement .....	29.26	3.99
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement .....	41.00	4.91
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement .....	56.68	6.63
<b>22 11 19 00-0016 Chemical Resistant Rubber Hoses</b> (22 11 19 00-0001)		
22 11 19 00-0017 EA 50" x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose .....	1,072.57	236.20
22 11 19 00-0018 EA 50" x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose .....	1,465.78	236.20
<b>22 11 19 00-0019 Water Pump Hose</b> (22 11 19 00-0001)		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose .....	261.48	60.95
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose .....	272.28	60.95
<b>22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling</b> (22 11 19 00-0001)		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling .....	23.95	8.38
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling .....	25.47	8.98
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling .....	27.24	9.57
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling .....	30.51	10.78
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling .....	37.14	13.17
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling .....	44.13	15.77
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling .....	57.10	20.75
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling .....	71.77	25.94
<b>22 11 19 00-0031 Worm-Drive Hose Clamp</b> (22 11 19 00-0001)		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp .....	10.20	2.99
22 11 19 00-0033 EA 1/2" To 1-1/8" Diameter Worm Drive Hose Clamp .....	10.80	2.99
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp .....	11.45	2.99
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp .....	12.18	2.99
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp .....	13.04	2.99
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp .....	14.09	3.99
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp .....	15.23	3.99
<b>22 11 19 00-0039 Trap Primer And Accessories</b> (22 11 19)		
<b>22 11 19 00-0040 Trap Primer</b> (22 11 19 00-0039)		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699) .....	218.60	15.04
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500) .....	134.53	10.02
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500) .....	130.47	10.02
<b>22 11 19 00-0044 Trap Primer Distribution Unit</b> (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U) .....	119.52	20.06
Note: Can be used for two, three or four drains.		
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4) .....	130.45	20.06
Note: Can be used for two, three or four drains.		
<b>22 11 19 00-0047 Trap Primer Manifold</b> (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Manifold .....	176.40	26.98
22 11 19 00-0049 EA Four Outlet Manifold .....	264.01	30.69
22 11 19 00-0050 EA Six Outlet Manifold .....	349.11	32.50
22 11 19 00-0051 EA Eight Outlet Manifold .....	438.37	38.11
<b>22 11 19 00-0052 Brass, Anti Siphon Vacuum Breakers</b> (22 11 19)		
Note: Watts 288A		
22 11 19 00-0053 EA 1/2" Brass, Anti Siphon Vacuum Breaker .....	84.75	25.08
22 11 19 00-0054 EA 3/4" Brass, Anti Siphon Vacuum Breaker .....	97.02	28.08
22 11 19 00-0055 EA 1" Brass, Anti Siphon Vacuum Breaker .....	189.48	32.10
22 11 19 00-0056 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker .....	296.34	37.11
22 11 19 00-0057 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker .....	353.60	41.11
22 11 19 00-0058 EA 2" Brass, Anti Siphon Vacuum Breaker .....	513.52	50.14
22 11 19 00-0059 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker .....	1,321.72	62.68





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0060</b>				<b>Anti Siphon Pressure Vacuum Breakers</b> <small>(22 11 19)</small>		
				Note: Watts 800M4QT		
				22 11 19 00-0061 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	231.33	25.08
				22 11 19 00-0062 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	204.38	28.08
				22 11 19 00-0063 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	289.19	32.10
				22 11 19 00-0064 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	515.68	37.11
				22 11 19 00-0065 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	627.33	41.11
				22 11 19 00-0066 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	636.13	50.14
<b>22 11 19 00-0067</b>				<b>Bellows Type Water Hammer Arrestors</b> <small>(22 11 19)</small>		
				22 11 19 00-0068 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	208.06	12.00
				22 11 19 00-0069 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	403.62	14.51
				22 11 19 00-0070 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	589.30	14.51
				22 11 19 00-0071 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,433.72	14.51
				22 11 19 00-0072 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	1,614.58	14.51
				22 11 19 00-0073 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	1,977.39	14.51
<b>22 11 19 00-0074</b>				<b>Piston Type Water Hammer Arrestors</b> <small>(22 11 19)</small>		
<b>22 11 19 00-0075</b>				<b>Threaded Piston Type Water Hammer Arrestors</b> <small>(22 11 19 00-0074)</small>		
				22 11 19 00-0076 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	125.44	6.69
				22 11 19 00-0077 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	239.56	7.71
				22 11 19 00-0078 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	355.20	8.36
				22 11 19 00-0079 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	871.18	10.78
				22 11 19 00-0080 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,061.14	13.37
				22 11 19 00-0081 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,207.30	14.51
<b>22 11 19 00-0082</b>				<b>Escutcheons</b> <small>(22 11 19)</small>		
<b>22 11 19 00-0083</b>				<b>Brass Escutcheons</b> <small>(22 11 19 00-0082)</small>		
<b>22 11 19 00-0084</b>				<b>Shallow Brass Escutcheons</b> <small>(22 11 19 00-0083)</small>		
				22 11 19 00-0085 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	11.04	2.50
				22 11 19 00-0086 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	11.88	2.50
<b>22 11 19 00-0087</b>				<b>Deep Bell Brass Escutcheons</b> <small>(22 11 19 00-0083)</small>		
				22 11 19 00-0088 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.96	2.81
				22 11 19 00-0089 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.99	2.81
<b>22 11 19 00-0090</b>				<b>Chrome Plated Brass Escutcheons With Setscrew</b> <small>(22 11 19 00-0083)</small>		
				22 11 19 00-0091 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.19	2.50
				22 11 19 00-0092 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.47	2.50
				22 11 19 00-0093 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.88	2.50
				22 11 19 00-0094 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	26.37	2.50
				22 11 19 00-0095 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	26.68	3.01
				22 11 19 00-0096 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	28.13	3.01
				22 11 19 00-0097 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	29.05	3.31
				22 11 19 00-0098 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	30.30	3.51
				22 11 19 00-0099 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	44.29	4.01
<b>22 11 19 00-0100</b>				<b>Plastic Escutcheons</b> <small>(22 11 19 00-0082)</small>		
<b>22 11 19 00-0101</b>				<b>Split-Ring White Plastic Escutcheons</b> <small>(22 11 19 00-0100)</small>		
				22 11 19 00-0102 EA 3/8" IPS, Split-Ring White Plastic Escutcheon.....	5.23	2.50
				22 11 19 00-0103 EA 1/2" IPS, Split-Ring White Plastic Escutcheon.....	5.23	2.50
				22 11 19 00-0104 EA 3/4" IPS, Split-Ring White Plastic Escutcheon.....	5.84	2.79
				22 11 19 00-0105 EA 1" IPS, Split-Ring White Plastic Escutcheon.....	6.35	2.99
				22 11 19 00-0106 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon.....	6.87	3.29
				22 11 19 00-0107 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon.....	7.38	3.49
				22 11 19 00-0108 EA 2" IPS, Split-Ring White Plastic Escutcheon.....	8.41	3.99
				22 11 19 00-0109 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	9.40	4.29
				22 11 19 00-0110 EA 3" IPS, Split-Ring White Plastic Escutcheon.....	10.40	4.49
				22 11 19 00-0111 EA 4" IPS, Split-Ring White Plastic Escutcheon.....	11.88	4.99



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0112			<b>Chrome Plate Plastic Escutcheons</b> (22 11 19 00-0100)		
22 11 19 00-0113	EA		1/2" IPS, Chrome Plate Plastic Escutcheon.....	5.63	2.50
22 11 19 00-0114	EA		3/4" IPS, Chrome Plate Plastic Escutcheon.....	6.18	2.79
22 11 19 00-0115	EA		1" IPS, Chrome Plate Plastic Escutcheon.....	6.79	2.99
22 11 19 00-0116	EA		1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	7.42	3.29
22 11 19 00-0117	EA		1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	7.93	3.49
22 11 19 00-0118	EA		2" IPS, Chrome Plate Plastic Escutcheon.....	9.35	3.99
22 11 19 00-0119	EA		2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	11.10	4.29
22 11 19 00-0120	EA		3" IPS, Chrome Plate Plastic Escutcheon.....	11.65	4.49
22 11 19 00-0121	EA		4" IPS, Chrome Plate Plastic Escutcheon.....	12.74	4.99
22 11 19 00-0122			<b>Stainless Steel Escutcheons</b> (22 11 19 00-0082)		
22 11 19 00-0123			<b>Shallow Stainless Steel Escutcheons</b> (22 11 19 00-0122)		
22 11 19 00-0124	EA		3/8" IPS, Shallow Stainless Steel Escutcheon.....	12.55	2.50
22 11 19 00-0125	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	12.55	2.50
22 11 19 00-0126	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	17.12	2.81
22 11 19 00-0127			<b>Chrome Plated Steel Escutcheons</b> (22 11 19 00-0082)		
22 11 19 00-0128			<b>Split-Ring Chrome Plated Steel Escutcheons</b> (22 11 19 00-0127)		
22 11 19 00-0129	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.84	2.50
22 11 19 00-0130	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.34	2.79
22 11 19 00-0131	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.99	2.99
22 11 19 00-0132	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.49	3.29
22 11 19 00-0133	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.99	3.49
22 11 19 00-0134	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.24	3.99
22 11 19 00-0135	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	15.44	4.29
22 11 19 00-0136	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	16.40	4.49
22 11 19 00-0137	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.87	4.79
22 11 19 00-0138	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	17.80	4.99
22 11 19 00-0139	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	23.77	5.49
22 11 19 00-0140	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	28.08	5.98
22 11 19 00-0141			<b>Split-Ring/Springs Chrome Plated Steel Escutcheons</b> (22 11 19 00-0127)		
22 11 19 00-0142	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.61	2.50
22 11 19 00-0143	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.61	2.50
22 11 19 00-0144	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.29	2.79
22 11 19 00-0145	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	9.03	2.99
22 11 19 00-0146	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.52	3.29
22 11 19 00-0147	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.26	3.49
22 11 19 00-0148	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.03	3.99
22 11 19 00-0149	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	19.90	4.29
22 11 19 00-0150	EA		3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	24.90	4.49
22 11 19 00-0151	EA		3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	31.24	4.79
22 11 19 00-0152	EA		4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	31.57	4.99
22 11 19 00-0153	EA		5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	54.47	5.49
22 11 19 00-0154	EA		6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	56.64	5.98
22 11 19 00-0155			<b>Deep Bell Chrome Plated Steel Escutcheons</b> (22 11 19 00-0127)		
22 11 19 00-0156	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.33	2.81
22 11 19 00-0157	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.19	2.81
22 11 19 00-0158	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.89	2.81
22 11 19 00-0159	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.79	3.01
22 11 19 00-0160	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.47	3.31
22 11 19 00-0161	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.38	3.51
22 11 19 00-0162			<b>Shallow Chrome Plated Steel Escutcheons</b> (22 11 19 00-0127)		
22 11 19 00-0163	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.34	2.50
22 11 19 00-0164	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.34	2.50
22 11 19 00-0165	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.48	2.50
22 11 19 00-0166	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.95	3.01
22 11 19 00-0167	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.53	3.31
22 11 19 00-0168	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.43	3.51
22 11 19 00-0169	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.53	4.01
22 11 19 00-0170			<b>Wall Hydrants</b> (22 11 19)		
			Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171			<b>Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker</b>		
			<b>Wall Hydrants</b> (22 11 19 00-0170)		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0172 EA 6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant ..... <i>For Cast Bronze Box, Add</i> <i>For 1" NPT Outlet, Add</i>	651.54 32.92 77.59	25.08
22 11 19 00-0173 EA 12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant ..... <i>For Cast Bronze Box, Add</i> <i>For 1" NPT Outlet, Add</i>	687.65 32.92 77.59	30.08
22 11 19 00-0174 EA 18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant ..... <i>For Cast Bronze Box, Add</i> <i>For 1" NPT Outlet, Add</i>	708.19 32.92 77.59	36.21
<b>22 11 19 00-0175 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants</b> <small>(22 11 19 00-0170)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant ..... <i>For Cast Bronze Box, Add</i> <i>For 1" NPT Outlet, Add</i>	662.18 32.92 77.59	42.12
<b>22 11 19 00-0177 Cast Bronze Non-Freezing Wall Hydrant</b> <small>(22 11 19 00-0170)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0178 EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	360.14 77.59	31.09
22 11 19 00-0179 EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	443.49 77.59	31.09
22 11 19 00-0180 EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	443.49 77.59	31.09
22 11 19 00-0181 EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	443.49 77.59	31.09
22 11 19 00-0182 EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	462.89 77.59	62.68
22 11 19 00-0183 EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	462.89 77.59	62.68
22 11 19 00-0184 EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant ..... <i>For 1" NPT Outlet, Add</i>	520.91 77.59	62.68
<b>22 11 19 00-0185 Stainless Steel Box Type Wall Hydrants</b> <small>(22 11 19 00-0170)</small> Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0186 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140) .....	328.11	25.08
22 11 19 00-0187 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141) .....	357.19	25.08
22 11 19 00-0188 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150) .....	361.15	25.08
22 11 19 00-0189 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151) .....	404.77	25.08
22 11 19 00-0190 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145) .....	568.20	35.10
22 11 19 00-0191 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) .....	585.38	35.10
22 11 19 00-0192 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155) .....	585.38	35.10
22 11 19 00-0193 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) .....	626.36	35.10
<b>22 11 19 00-0194 Washer Boxes And Dryer Outlets</b> <small>(22 11 19)</small>		
<b>22 11 19 00-0195 Dryer Vent Kit</b> <small>(22 11 19 00-0194)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0196 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps .....	69.81	13.04
<b>22 11 19 00-0197 Washer Boxes And Dryer Vents</b> <small>(22 11 19 00-0194)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0198 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves .....	240.93	20.06
<b>22 11 19 00-0199 Ice Maker Outlet Box</b> <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0200 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount .....	124.54	20.06
22 11 19 00-0201 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount .....	152.99	20.06
22 11 19 00-0202 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount .....	168.64	20.06
<b>22 11 19 00-0203 Tempering Controllers For Potable Hot Water</b> <small>(22 11 19)</small>		
<b>22 11 19 00-0204 Point-Of-Use Thermostatic Mixing Valves (Bradley)</b> <small>(22 11 19 00-0203)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0205 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007) .....	345.58	24.28
22 11 19 00-0206 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004) .....	178.20	24.28
22 11 19 00-0207 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008) .....	201.18	24.28
22 11 19 00-0208 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016) .....	232.99	32.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0209</b>	<b>Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small></b>	
Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0210 EA	3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	925.43 35.01
22 11 19 00-0211 EA	3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045).....	1,040.36 43.12
22 11 19 00-0212 EA	1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	1,250.00 50.16
22 11 19 00-0213 EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	1,615.19 52.73
22 11 19 00-0214 EA	2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....	2,167.47 68.41
<b>22 11 19 00-0215</b>	<b>High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small></b>	
Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0216 EA	3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045).....	2,344.32 53.92
22 11 19 00-0217 EA	1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	3,048.12 62.70
22 11 19 00-0218 EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	3,551.81 65.90
22 11 19 00-0219 EA	2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	3,940.14 85.50
<b>22 11 19 00-0220</b>	<b>Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0203)</small></b>	
Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0221 EA	3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	675.48 35.01
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0222 EA	1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	796.09 43.12
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0223 EA	1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	977.18 50.16
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0224 EA	1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,191.08 52.75
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0225 EA	2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	1,765.26 68.41
Note: For hot water or two pipe low pressure steam.		
<b>22 11 19 00-0226</b>	<b>Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0203)</small></b>	
Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0227 EA	3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,953.99 50.14
22 11 19 00-0228 EA	1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,124.72 63.19
22 11 19 00-0229 EA	1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,437.91 76.23
22 11 19 00-0230 EA	1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,781.18 89.26
22 11 19 00-0231 EA	2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,503.00 117.34
22 11 19 00-0232 EA	2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,326.00 133.82
<b>22 11 19 00-0233</b>	<b>Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0203)</small></b>	
22 11 19 00-0234 EA	2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	3,123.31 68.43
<b>22 11 19 00-0235</b>	<b>Backflow Preventer Valves <small>(22 11 19)</small></b>	
<b>22 11 19 00-0236</b>	<b>Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0235)</small></b>	
<b>22 11 19 00-0237</b>	<b>Threaded Double Check Valve Assemblies <small>(22 11 19 00-0236)</small></b>	
<b>22 11 19 00-0238</b>	<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0237)</small></b>	
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239 EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	303.33 26.88
For Work In Restricted Working Space, Add 20.16		
For Owner Furnished Material, Deduct -236.13		
22 11 19 00-0240 EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	361.85 38.11
For Work In Restricted Working Space, Add 28.58		
For Owner Furnished Material, Deduct -266.57		
22 11 19 00-0241 EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	418.79 46.53
For Work In Restricted Working Space, Add 34.90		
For Owner Furnished Material, Deduct -302.45		
22 11 19 00-0242 EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	579.73 54.16
For Work In Restricted Working Space, Add 40.62		
For Owner Furnished Material, Deduct -444.34		
22 11 19 00-0243 EA	1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	714.74 62.18
For Work In Restricted Working Space, Add 46.34		
For Owner Furnished Material, Deduct -560.29		
22 11 19 00-0244 EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	828.74 80.23
For Work In Restricted Working Space, Add 60.18		
For Owner Furnished Material, Deduct -628.15		



<b>Plumbing</b>	<b>22</b>	<b>22</b>
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0237)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	370.90	26.88
For Work In Restricted Working Space, Add	20.16	
For Owner Furnished Material, Deduct	-303.70	
22 11 19 00-0247 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	460.81	38.11
For Work In Restricted Working Space, Add	28.58	
For Owner Furnished Material, Deduct	-365.53	
22 11 19 00-0248 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	540.11	46.53
For Work In Restricted Working Space, Add	34.90	
For Owner Furnished Material, Deduct	-423.77	
22 11 19 00-0249 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	752.60	54.16
For Work In Restricted Working Space, Add	40.62	
For Owner Furnished Material, Deduct	-617.21	
22 11 19 00-0250 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	918.34	62.18
For Work In Restricted Working Space, Add	46.34	
For Owner Furnished Material, Deduct	-763.89	
22 11 19 00-0251 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,109.84	80.23
For Work In Restricted Working Space, Add	60.18	
For Owner Furnished Material, Deduct	-909.25	
<b>22 11 19 00-0252 Flanged Double Check Valve Assemblies</b> <small>(22 11 19 00-0236)</small>		
<b>22 11 19 00-0253 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0254 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	3,837.00	221.65
For Work In Restricted Working Space, Add	88.66	
For Owner Furnished Material, Deduct	-3,541.47	
22 11 19 00-0255 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	4,216.75	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-3,888.90	
<b>22 11 19 00-0256 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0257 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	4,196.96	221.65
For Work In Restricted Working Space, Add	88.66	
For Owner Furnished Material, Deduct	-3,901.43	
22 11 19 00-0258 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	4,816.69	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-4,488.84	
<b>22 11 19 00-0259 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0260 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	3,862.94	221.65
For Work In Restricted Working Space, Add	88.65	
For Owner Furnished Material, Deduct	-3,567.43	
22 11 19 00-0261 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	2,972.41	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-2,644.55	
22 11 19 00-0262 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,648.02	369.41
For Work In Restricted Working Space, Add	147.68	
For Owner Furnished Material, Deduct	-4,155.74	
22 11 19 00-0263 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,116.51	539.82
For Work In Restricted Working Space, Add	292.55	
For Owner Furnished Material, Deduct	-6,141.36	
22 11 19 00-0264 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	16,067.41	809.72
For Work In Restricted Working Space, Add	438.89	
For Owner Furnished Material, Deduct	-14,604.45	
22 11 19 00-0265 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	20,602.66	957.74
For Work In Restricted Working Space, Add	522.40	
For Owner Furnished Material, Deduct	-18,861.32	
<b>22 11 19 00-0266 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0267 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	5,408.21	369.41
For Work In Restricted Working Space, Add	147.67	
For Owner Furnished Material, Deduct	-4,915.97	



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0268 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	9,026.95	539.82
<i>For Work In Restricted Working Space, Add</i>	292.55	
<i>For Owner Furnished Material, Deduct</i>	-8,051.80	
22 11 19 00-0269 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	23,861.87	957.74
<i>For Work In Restricted Working Space, Add</i>	522.40	
<i>For Owner Furnished Material, Deduct</i>	-22,120.53	
<b>22 11 19 00-0270 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22)</sup>		
<small>11 19 00-0252</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0271 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	4,098.44	221.65
<i>For Work In Restricted Working Space, Add</i>	88.65	
<i>For Owner Furnished Material, Deduct</i>	-3,802.93	
22 11 19 00-0272 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	4,504.18	249.35
<i>For Work In Restricted Working Space, Add</i>	98.36	
<i>For Owner Furnished Material, Deduct</i>	-4,176.33	
22 11 19 00-0273 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	4,923.77	369.41
<i>For Work In Restricted Working Space, Add</i>	147.67	
<i>For Owner Furnished Material, Deduct</i>	-4,431.53	
22 11 19 00-0274 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	8,289.10	539.82
<i>For Work In Restricted Working Space, Add</i>	292.55	
<i>For Owner Furnished Material, Deduct</i>	-7,313.95	
22 11 19 00-0275 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	17,041.00	809.72
<i>For Work In Restricted Working Space, Add</i>	438.82	
<i>For Owner Furnished Material, Deduct</i>	-15,578.27	
22 11 19 00-0276 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	21,859.17	957.74
<i>For Work In Restricted Working Space, Add</i>	522.40	
<i>For Owner Furnished Material, Deduct</i>	-20,117.83	
<b>22 11 19 00-0277 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22)</sup>		
<small>11 19 00-0252</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,471.52	221.65
<i>For Work In Restricted Working Space, Add</i>	88.65	
<i>For Owner Furnished Material, Deduct</i>	-2,176.01	
22 11 19 00-0279 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,721.59	249.35
<i>For Work In Restricted Working Space, Add</i>	98.36	
<i>For Owner Furnished Material, Deduct</i>	-2,393.74	
22 11 19 00-0280 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	3,103.70	369.41
<i>For Work In Restricted Working Space, Add</i>	147.67	
<i>For Owner Furnished Material, Deduct</i>	-2,611.46	
22 11 19 00-0281 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	5,058.54	539.82
<i>For Work In Restricted Working Space, Add</i>	292.55	
<i>For Owner Furnished Material, Deduct</i>	-4,083.39	
22 11 19 00-0282 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	9,535.93	809.72
<i>For Work In Restricted Working Space, Add</i>	438.82	
<i>For Owner Furnished Material, Deduct</i>	-8,073.20	
22 11 19 00-0283 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	10,380.23	957.74
<i>For Work In Restricted Working Space, Add</i>	522.40	
<i>For Owner Furnished Material, Deduct</i>	-8,638.89	
<b>22 11 19 00-0284 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0252)</sup>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	3,243.61	221.65
<i>For Work In Restricted Working Space, Add</i>	88.65	
<i>For Owner Furnished Material, Deduct</i>	-2,948.10	
22 11 19 00-0286 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	3,493.68	249.35
<i>For Work In Restricted Working Space, Add</i>	98.36	
<i>For Owner Furnished Material, Deduct</i>	-3,165.83	
22 11 19 00-0287 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY series).....	4,393.90	369.41
<i>For Work In Restricted Working Space, Add</i>	147.67	
<i>For Owner Furnished Material, Deduct</i>	-3,901.66	
22 11 19 00-0288 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	7,218.38	539.82
<i>For Work In Restricted Working Space, Add</i>	292.55	
<i>For Owner Furnished Material, Deduct</i>	-6,243.23	
22 11 19 00-0289 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	12,737.04	809.72
<i>For Work In Restricted Working Space, Add</i>	438.82	
<i>For Owner Furnished Material, Deduct</i>	-11,274.31	
22 11 19 00-0290 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	15,157.09	957.74
<i>For Work In Restricted Working Space, Add</i>	522.40	
<i>For Owner Furnished Material, Deduct</i>	-13,415.75	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0291			<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0292	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,317.95 88.65 -2,022.44	221.65
22 11 19 00-0293	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,575.00 98.36 -2,247.15	249.35
22 11 19 00-0294	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,964.01 147.67 -2,471.77	369.41
22 11 19 00-0295	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,948.80 292.55 -3,973.65	539.82
22 11 19 00-0296	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,430.18 438.82 -7,967.45	809.72
22 11 19 00-0297	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	10,675.50 522.40 -8,934.16	957.74
22 11 19 00-0298			<b>N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0299	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,025.30 88.65 -2,729.79	221.65
22 11 19 00-0300	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,275.37 98.36 -2,947.52	249.35
22 11 19 00-0301	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,175.86 147.67 -3,683.62	369.41
22 11 19 00-0302	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,986.15 292.55 -6,011.00	539.82
22 11 19 00-0303	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,385.53 438.82 -10,922.80	809.72
22 11 19 00-0304	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	14,804.56 522.40 -13,063.22	957.74
22 11 19 00-0305			<b>Double Check Valve Assemblies With Butterfly Shut-Off Valves</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0306	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,681.14 88.65 -2,385.63	221.65
22 11 19 00-0307	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,931.21 98.36 -2,603.36	249.35
22 11 19 00-0308	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,313.32 147.67 -2,821.08	369.41
22 11 19 00-0309	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,273.44 292.55 -4,298.29	539.82
22 11 19 00-0310	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,750.83 438.82 -8,288.10	809.72
22 11 19 00-0311			<b>N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs</b> <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0312	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,453.23 88.65 -3,157.72	221.65
22 11 19 00-0313	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,703.30 98.36 -3,375.45	249.35
22 11 19 00-0314	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,603.52 147.67 -4,111.28	369.41
22 11 19 00-0315	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,433.33 292.55 -6,458.18	539.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0316 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,750.83 438.82 -8,288.10	809.72
<b>22 11 19 00-0317 Grooved Double Check Valve Assemblies</b> (22 11 19 00-0236)		
<b>22 11 19 00-0318 Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0319 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,317.95 88.65 -2,022.44	118.21
22 11 19 00-0320 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,575.00 98.36 -2,247.15	131.14
<b>22 11 19 00-0321 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0322 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,025.30 88.65 -2,729.79	118.21
22 11 19 00-0323 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,275.37 98.36 -2,947.52	131.14
<b>22 11 19 00-0324 Reduced Pressure Zone Backflow Preventer Assemblies</b> (22 11 19 00-0235)		
<b>22 11 19 00-0325 Threaded Reduced Pressure Zone Assemblies</b> (22 11 19 00-0324)		
<b>22 11 19 00-0326 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0327 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	332.81 17.45 -274.64	23.27
22 11 19 00-0328 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	352.17 19.26 -287.98	25.67
22 11 19 00-0329 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	408.33 20.16 -341.13	26.88
22 11 19 00-0330 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	549.61 28.58 -454.33	38.11
22 11 19 00-0331 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	652.89 34.90 -536.55	46.53
22 11 19 00-0332 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	977.07 40.62 -841.68	54.16
22 11 19 00-0333 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,035.72 46.34 -881.27	62.18
22 11 19 00-0334 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,246.36 60.18 -1,045.77	80.23
<b>22 11 19 00-0335 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0336 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	366.06 17.45 -307.89	23.27
22 11 19 00-0337 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	387.21 19.26 -323.02	25.67
22 11 19 00-0338 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	456.35 20.16 -389.15	38.11
22 11 19 00-0339 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) ..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	625.07 28.58 -529.79	38.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0340	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	747.24	46.53
			<i>For Work In Restricted Working Space, Add</i>	34.90	
			<i>For Owner Furnished Material, Deduct</i>	-630.90	
22 11 19 00-0341	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,105.76	54.16
			<i>For Work In Restricted Working Space, Add</i>	40.62	
			<i>For Owner Furnished Material, Deduct</i>	-970.37	
22 11 19 00-0342	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,217.32	62.18
			<i>For Work In Restricted Working Space, Add</i>	46.34	
			<i>For Owner Furnished Material, Deduct</i>	-1,062.87	
22 11 19 00-0343	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,469.16	80.23
			<i>For Work In Restricted Working Space, Add</i>	60.18	
			<i>For Owner Furnished Material, Deduct</i>	-1,268.57	
<b>22 11 19 00-0344</b>			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0345	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....	549.61	38.11
			<i>For Work In Restricted Working Space, Add</i>	28.58	
			<i>For Owner Furnished Material, Deduct</i>	-454.33	
22 11 19 00-0346	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....	652.89	46.53
			<i>For Work In Restricted Working Space, Add</i>	34.90	
			<i>For Owner Furnished Material, Deduct</i>	-536.55	
22 11 19 00-0347	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....	977.07	54.16
			<i>For Work In Restricted Working Space, Add</i>	40.62	
			<i>For Owner Furnished Material, Deduct</i>	-841.68	
22 11 19 00-0348	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....	1,035.72	62.18
			<i>For Work In Restricted Working Space, Add</i>	46.34	
			<i>For Owner Furnished Material, Deduct</i>	-881.27	
22 11 19 00-0349	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....	1,246.36	80.23
			<i>For Work In Restricted Working Space, Add</i>	60.18	
			<i>For Owner Furnished Material, Deduct</i>	-1,045.77	
<b>22 11 19 00-0350</b>			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0351	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	625.07	38.11
			<i>For Work In Restricted Working Space, Add</i>	28.58	
			<i>For Owner Furnished Material, Deduct</i>	-529.79	
22 11 19 00-0352	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	747.24	46.53
			<i>For Work In Restricted Working Space, Add</i>	34.90	
			<i>For Owner Furnished Material, Deduct</i>	-630.90	
22 11 19 00-0353	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,105.76	54.16
			<i>For Work In Restricted Working Space, Add</i>	40.62	
			<i>For Owner Furnished Material, Deduct</i>	-970.37	
22 11 19 00-0354	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,217.32	62.18
			<i>For Work In Restricted Working Space, Add</i>	46.34	
			<i>For Owner Furnished Material, Deduct</i>	-1,062.87	
22 11 19 00-0355	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,469.16	80.23
			<i>For Work In Restricted Working Space, Add</i>	60.18	
			<i>For Owner Furnished Material, Deduct</i>	-1,268.57	
<b>22 11 19 00-0356</b>			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0357	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,110.10	38.11
			<i>For Work In Restricted Working Space, Add</i>	28.58	
			<i>For Owner Furnished Material, Deduct</i>	-1,014.82	
22 11 19 00-0358	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,314.82	46.53
			<i>For Work In Restricted Working Space, Add</i>	34.90	
			<i>For Owner Furnished Material, Deduct</i>	-1,198.48	
22 11 19 00-0359	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,012.98	54.16
			<i>For Work In Restricted Working Space, Add</i>	40.62	
			<i>For Owner Furnished Material, Deduct</i>	-1,877.59	
22 11 19 00-0360	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,178.11	62.18
			<i>For Work In Restricted Working Space, Add</i>	46.34	
			<i>For Owner Furnished Material, Deduct</i>	-2,023.66	
22 11 19 00-0361	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	2,531.77	80.23
			<i>For Work In Restricted Working Space, Add</i>	60.18	
			<i>For Owner Furnished Material, Deduct</i>	-2,331.18	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 11 19 00-0362	<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0325)</small>		
	Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0363	EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) .....	1,487.33	38.11
	<i>For Work In Restricted Working Space, Add</i>	28.58	
	<i>For Owner Furnished Material, Deduct</i>	-1,392.05	
22 11 19 00-0364	EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) .....	1,768.75	46.53
	<i>For Work In Restricted Working Space, Add</i>	34.90	
	<i>For Owner Furnished Material, Deduct</i>	-1,652.41	
22 11 19 00-0365	EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) .....	2,686.79	54.16
	<i>For Work In Restricted Working Space, Add</i>	40.62	
	<i>For Owner Furnished Material, Deduct</i>	-2,551.40	
22 11 19 00-0366	EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) .....	2,936.49	62.18
	<i>For Work In Restricted Working Space, Add</i>	46.34	
	<i>For Owner Furnished Material, Deduct</i>	-2,782.04	
22 11 19 00-0367	EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) .....	3,492.09	80.23
	<i>For Work In Restricted Working Space, Add</i>	60.18	
	<i>For Owner Furnished Material, Deduct</i>	-3,291.50	
22 11 19 00-0368	<b>Flanged Reduced Pressure Zone Assemblies</b> <small>(22 11 19 00-0324)</small>		
22 11 19 00-0369	<b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series) .....	3,535.23	221.65
	<i>For Work In Restricted Working Space, Add</i>	88.66	
	<i>For Owner Furnished Material, Deduct</i>	-3,239.70	
22 11 19 00-0371	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series) .....	3,982.14	249.35
	<i>For Work In Restricted Working Space, Add</i>	98.36	
	<i>For Owner Furnished Material, Deduct</i>	-3,654.29	
22 11 19 00-0372	<b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer</b> <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series) .....	4,199.65	221.65
	<i>For Work In Restricted Working Space, Add</i>	88.66	
	<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0374	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series) .....	4,754.01	249.35
	<i>For Work In Restricted Working Space, Add</i>	98.36	
	<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0375	<b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series) .....	3,789.54	221.65
	<i>For Work In Restricted Working Space, Add</i>	88.66	
	<i>For Owner Furnished Material, Deduct</i>	-3,494.01	
22 11 19 00-0377	EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series) .....	4,404.79	249.35
	<i>For Work In Restricted Working Space, Add</i>	98.36	
	<i>For Owner Furnished Material, Deduct</i>	-4,076.94	
22 11 19 00-0378	<b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer</b> <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series) .....	4,199.65	221.65
	<i>For Work In Restricted Working Space, Add</i>	88.66	
	<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0380	EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series) .....	4,754.01	249.35
	<i>For Work In Restricted Working Space, Add</i>	98.36	
	<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0381	<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0382	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,653.64 88.66 -4,358.11	221.65
	22 11 19 00-0383	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,381.71 98.36 -5,053.86	249.35
<b>22 11 19 00-0384</b>	<b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0384)</small>					
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
	22 11 19 00-0385	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,016.48 88.65 -5,720.97	221.65
	22 11 19 00-0386	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,833.23 98.36 -6,505.37	249.35
	22 11 19 00-0387	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,624.67 147.68 -8,132.39	369.41
	22 11 19 00-0388	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,181.38 409.59 -11,816.09	539.82
	22 11 19 00-0389	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	21,808.74 614.39 -19,760.79	809.72
	22 11 19 00-0390	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	27,914.07 522.40 -26,172.73	957.74
<b>22 11 19 00-0391</b>	<b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer</b> <small>(22 11 19 00-0391)</small>					
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
	22 11 19 00-0392	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,477.63 88.65 -6,182.12	221.65
	22 11 19 00-0393	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,318.55 98.36 -6,990.70	249.35
	22 11 19 00-0394	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,368.74 147.67 -8,876.50	369.41
	22 11 19 00-0395	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	14,191.84 292.55 -13,216.69	539.82
	22 11 19 00-0396	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	22,952.71 438.82 -21,489.98	809.72
	22 11 19 00-0397	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	31,088.83 522.40 -29,347.49	957.74
<b>22 11 19 00-0398</b>	<b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0398)</small>					
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
	22 11 19 00-0399	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,396.14 88.65 -6,100.63	221.65
	22 11 19 00-0400	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,268.42 98.36 -6,940.56	249.35
	22 11 19 00-0401	EA		4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,165.51 147.68 -8,673.23	369.41
	22 11 19 00-0402	EA		6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,579.66 292.55 -12,604.51	539.82
	22 11 19 00-0403	EA		8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	22,541.52 438.82 -21,078.79	809.72





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0404 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	29,657.94	957.74
For Work In Restricted Working Space, Add	522.40	
For Owner Furnished Material, Deduct	-27,916.60	
<b>22 11 19 00-0405 Double Check Detector Assemblies (22 11 19 00-0235)</b>		
<b>22 11 19 00-0406 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0406)</b>		
<b>22 11 19 00-0407 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)</b>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0408 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	4,825.69	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-4,497.84	
22 11 19 00-0409 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,094.44	369.41
For Work In Restricted Working Space, Add	147.67	
For Owner Furnished Material, Deduct	-4,602.20	
22 11 19 00-0410 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,951.27	539.82
For Work In Restricted Working Space, Add	292.55	
For Owner Furnished Material, Deduct	-5,976.12	
22 11 19 00-0411 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	12,264.92	809.72
For Work In Restricted Working Space, Add	438.82	
For Owner Furnished Material, Deduct	-10,802.19	
22 11 19 00-0412 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	16,504.28	957.74
For Work In Restricted Working Space, Add	522.40	
For Owner Furnished Material, Deduct	-14,762.94	
<b>22 11 19 00-0413 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)</b>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0414 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,627.69	221.65
For Work In Restricted Working Space, Add	88.66	
For Owner Furnished Material, Deduct	-3,321.16	
22 11 19 00-0415 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,877.51	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-3,549.66	
22 11 19 00-0416 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,264.77	369.41
For Work In Restricted Working Space, Add	147.67	
For Owner Furnished Material, Deduct	-3,772.53	
22 11 19 00-0417 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,873.74	539.82
For Work In Restricted Working Space, Add	292.55	
For Owner Furnished Material, Deduct	-4,898.59	
22 11 19 00-0418 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	10,317.38	809.72
For Work In Restricted Working Space, Add	438.82	
For Owner Furnished Material, Deduct	-8,854.65	
22 11 19 00-0419 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	12,170.93	957.74
For Work In Restricted Working Space, Add	522.40	
For Owner Furnished Material, Deduct	-10,429.59	
<b>22 11 19 00-0420 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0406)</b>		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0421 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,837.35	221.65
For Work In Restricted Working Space, Add	88.66	
For Owner Furnished Material, Deduct	-3,541.82	
22 11 19 00-0422 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,087.18	249.35
For Work In Restricted Working Space, Add	98.36	
For Owner Furnished Material, Deduct	-3,759.33	
22 11 19 00-0423 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,474.40	369.41
For Work In Restricted Working Space, Add	147.67	
For Owner Furnished Material, Deduct	-3,982.16	
22 11 19 00-0424 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,088.65	539.82
For Work In Restricted Working Space, Add	292.55	
For Owner Furnished Material, Deduct	-5,113.50	
22 11 19 00-0425 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	10,059.54	809.72
For Work In Restricted Working Space, Add	438.82	
For Owner Furnished Material, Deduct	-8,596.81	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0426				<b>Flanged Double Check Detector Assemblies Without Meter</b> <small>(22 11 19 00-0405)</small>		
22 11 19 00-0427				<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter</b> <small>(22 11 19 00-0426)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0428	EA			2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	3,561.49	221.65
				<i>For Work In Restricted Working Space, Add</i> .....	88.66	
22 11 19 00-0429	EA			3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	3,811.34	249.35
				<i>For Work In Restricted Working Space, Add</i> .....	98.36	
22 11 19 00-0430	EA			4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	4,198.60	369.41
				<i>For Work In Restricted Working Space, Add</i> .....	147.67	
22 11 19 00-0431	EA			6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	5,807.57	539.82
				<i>For Work In Restricted Working Space, Add</i> .....	292.55	
22 11 19 00-0432	EA			8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	10,251.25	809.72
				<i>For Work In Restricted Working Space, Add</i> .....	438.82	
22 11 19 00-0433	EA			10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....	12,104.71	957.74
				<i>For Work In Restricted Working Space, Add</i> .....	522.40	
22 11 19 00-0434				<b>Double Check Detector Assembly With Butterfly Valves Less Meter</b> <small>(22 11 19 00-0426)</small>		
				Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA			2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....	3,771.14	221.65
				<i>For Work In Restricted Working Space, Add</i> .....	88.66	
22 11 19 00-0436	EA			3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....	4,020.96	249.35
				<i>For Work In Restricted Working Space, Add</i> .....	98.36	
22 11 19 00-0437	EA			4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....	4,408.22	369.41
				<i>For Work In Restricted Working Space, Add</i> .....	147.67	
22 11 19 00-0438	EA			6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....	6,022.43	539.82
				<i>For Work In Restricted Working Space, Add</i> .....	292.55	
22 11 19 00-0439	EA			8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....	10,466.16	809.72
				<i>For Work In Restricted Working Space, Add</i> .....	438.82	
22 11 19 00-0440				<b>Backflow Preventer Accessories</b> <small>(22 11 19 00-0235)</small>		
22 11 19 00-0441				<b>Air Gap</b> <small>(22 11 19 00-0440)</small>		
22 11 19 00-0442	EA			Up To 1" Diameter Air Gap For Backflow Preventer .....	87.92	12.54
22 11 19 00-0443	EA			1-1/4" To 2" Diameter Air Gap For Backflow Preventer .....	107.99	15.04
22 11 19 00-0444	EA			2-1/2" To 3" Diameter Air Gap For Backflow Preventer .....	198.70	20.06
22 11 19 00-0445	EA			4" To 6" Diameter Air Gap For Backflow Preventer .....	390.74	35.10
22 11 19 00-0446	EA			8" To 10" Diameter Air Gap For Backflow Preventer .....	420.83	50.14
22 11 19 00-0447				<b>Brass Test Cocks</b> <small>(22 11 19 00-0440)</small>		
22 11 19 00-0448	EA			1/8" Or 1/4" Brass Test Cock .....	35.73	5.02
22 11 19 00-0449				<b>Backflow Valve Enclosures</b> <small>(22 11 19 00-0235)</small>		
22 11 19 00-0450				<b>Flip-Top, Insulated Fiberglass Valve Enclosures</b> <small>(22 11 19 00-0449)</small>		
				Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA			19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	787.77	90.26
				<i>For Heated Enclosure, Add</i> .....	95.60	
22 11 19 00-0452	EA			27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	966.09	90.26
				<i>For Heated Enclosure, Add</i> .....	122.35	
22 11 19 00-0453	EA			27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,220.90	83.12
				<i>For Heated Enclosure, Add</i> .....	162.36	
22 11 19 00-0454	EA			33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,271.72	110.82
				<i>For Heated Enclosure, Add</i> .....	163.05	
22 11 19 00-0455	EA			39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,332.20	110.82
				<i>For Heated Enclosure, Add</i> .....	172.13	
22 11 19 00-0456	EA			47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,567.90	110.82
				<i>For Heated Enclosure, Add</i> .....	207.48	
22 11 19 00-0457	EA			39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,574.10	110.82
				<i>For Heated Enclosure, Add</i> .....	208.41	
22 11 19 00-0458	EA			47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,975.72	110.82
				<i>For Heated Enclosure, Add</i> .....	268.65	
22 11 19 00-0459	EA			70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	4,539.85	166.23
				<i>For Heated Enclosure, Add</i> .....	639.42	
22 11 19 00-0460	EA			83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	6,566.58	166.23
				<i>For Heated Enclosure, Add</i> .....	943.43	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0461	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	6,240.94	166.23
			<i>For Heated Enclosure, Add</i>	894.58	
22 11 19 00-0462	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	7,513.69	193.94
			<i>For Heated Enclosure, Add</i>	1,078.57	
<b>22 11 19 00-0463</b>			<b>One-Piece Drop Over, Insulated Fiberglass Valve Enclosures</b> (22 11 19 00-0449)		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	427.79	24.07
			<i>For Heated Enclosure, Add</i>	77.53	
22 11 19 00-0465	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	592.16	24.07
			<i>For Heated Enclosure, Add</i>	110.41	
22 11 19 00-0466	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	740.94	22.16
			<i>For Heated Enclosure, Add</i>	140.80	
22 11 19 00-0467	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	1,116.21	22.16
			<i>For Heated Enclosure, Add</i>	215.85	
22 11 19 00-0468	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	2,885.29	41.56
			<i>For Heated Enclosure, Add</i>	563.20	
22 11 19 00-0469	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	3,935.09	41.56
			<i>For Heated Enclosure, Add</i>	773.16	
22 11 19 00-0470	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	2,624.77	41.56
			<i>For Heated Enclosure, Add</i>	511.10	
22 11 19 00-0471	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	2,969.02	41.56
			<i>For Heated Enclosure, Add</i>	579.95	
22 11 19 00-0472	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure .....	4,639.09	41.56
			<i>For Heated Enclosure, Add</i>	913.96	
<b>22 11 19 00-0473</b>			<b>Sectional, Insulated Aluminum Valve Enclosures</b> (22 11 19 00-0449)		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0474	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure .....	5,901.90	180.53
			<i>For Heated Enclosure, Add</i>	840.15	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0475	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure .....	6,502.01	180.53
			<i>For Heated Enclosure, Add</i>	930.17	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0476	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure .....	4,612.73	166.23
			<i>For Heated Enclosure, Add</i>	650.35	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0477	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure .....	5,056.22	166.23
			<i>For Heated Enclosure, Add</i>	716.87	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0478	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure .....	5,888.24	221.65
			<i>For Heated Enclosure, Add</i>	827.82	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0479	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure .....	6,598.45	221.65
			<i>For Heated Enclosure, Add</i>	934.36	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0480	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure .....	6,598.45	221.65
			<i>For Heated Enclosure, Add</i>	934.36	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0481	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure .....	7,286.95	221.65
			<i>For Heated Enclosure, Add</i>	1,037.63	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0482	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure .....	5,476.11	193.94
			<i>For Heated Enclosure, Add</i>	772.93	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0483	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure .....	6,410.82	221.65
			<i>For Heated Enclosure, Add</i>	906.21	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0484	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,485.43	221.65
			<i>For Heated Enclosure, Add</i>	1,067.40	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0485	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,215.63	235.50
			<i>For Heated Enclosure, Add</i>	1,173.47	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	
22 11 19 00-0486	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,427.70	255.75
			<i>For Heated Enclosure, Add</i>	1,200.22	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	474.25	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	848.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0487	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,339.76 1,333.27 474.25 848.66	270.79
22 11 19 00-0488	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,659.12 1,386.53 474.25 848.66	249.35
22 11 19 00-0489	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,020.23 997.62 474.25 848.66	221.65
22 11 19 00-0490	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,480.78 1,066.71 474.25 848.66	221.65
22 11 19 00-0491	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,462.19 1,210.45 474.25 848.66	235.50
22 11 19 00-0492	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,249.93 1,475.15 474.25 848.66	249.35
22 11 19 00-0493	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,948.92 1,280.00 474.25 848.66	110.82
22 11 19 00-0494	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,747.53 1,546.33 474.25 848.66	110.82
22 11 19 00-0495	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,392.43 1,493.06 474.25 848.66	166.23
22 11 19 00-0496	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,055.95 1,735.67 474.25 848.66	166.23
22 11 19 00-0497	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,125.72 1,599.59 474.25 848.66	166.23
22 11 19 00-0498	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,000.14 1,873.83 474.25 848.66	193.94
22 11 19 00-0499	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,046.31 1,873.83 474.25 848.66	166.23
22 11 19 00-0500	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	15,472.77 2,230.87 474.25 848.66	166.23
22 11 19 00-0501			<b>Faucets (Hose Bibbs)</b> <small>(22 11 19)</small>		
22 11 19 00-0502			<b>Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends</b> <small>(22 11 19 00-0501)</small>		
22 11 19 00-0503	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....	51.40	10.02
22 11 19 00-0504	EA		3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125# .....	59.80	11.03
22 11 19 00-0505	EA		3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125# .....	19.74	7.52
22 11 19 00-0506			<b>Chrome Plated Brass Hose Valves, Screwed Ends</b> <small>(22 11 19 00-0501)</small>		
22 11 19 00-0507	EA		3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP .....	197.52	30.69
22 11 19 00-0508			<b>Antisiphon Freezeless Wall Faucet</b> <small>(22 11 19 00-0501)</small>		
22 11 19 00-0509	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	134.99	25.08
22 11 19 00-0510	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	145.69	27.78
22 11 19 00-0511	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	153.88	29.38
22 11 19 00-0512	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	162.05	31.49
22 11 19 00-0513	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	170.34	33.39
22 11 19 00-0514			<b>Keyed, Recessed Valve Boxes</b> <small>(22 11 19)</small>		
22 11 19 00-0515	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box .....	229.29	29.92
22 11 19 00-0516	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box .....	253.50	29.92
22 11 19 00-0517	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box .....	289.80	29.92
22 11 19 00-0518	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box .....	285.55	39.91
22 11 19 00-0519	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box .....	321.86	39.91



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0520	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box .....	332.75	39.91
22 11 19 00-0521	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box .....	268.02	29.92
22 11 19 00-0522	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box .....	321.27	29.92
22 11 19 00-0523	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box .....	368.47	29.92
22 11 19 00-0524	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box .....	353.33	39.91
22 11 19 00-0525	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box .....	400.53	39.91
22 11 19 00-0526	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box .....	418.68	39.91

## 22 11 23 Domestic Water Pumps (22 11)

### 22 11 23 13 Domestic Water Packaged Booster Pumps And Tanks (22 11 23)

Note: Includes motor starter and controls.

#### 22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)

22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	6,821.15	295.53
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	7,167.98	397.11
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	7,561.23	498.71
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	7,931.29	600.29
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	8,812.06	701.88
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	9,808.90	803.47
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	10,527.18	905.06

#### 22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)

22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	18,705.40	1,195.31
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	22,384.85	1,270.00
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	26,079.12	1,344.71

#### 22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)

22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	24,363.93	1,270.00
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	30,132.17	1,344.71
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	37,300.72	1,494.12
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	47,042.38	1,643.54
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	56,784.03	1,792.95
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	66,090.87	2,017.07
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	75,397.72	2,241.19
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	84,704.55	2,465.31
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	94,198.16	2,764.14

### 22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

#### 22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B) .....	719.59	166.23
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B) .....	735.72	166.23
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B) .....	767.10	169.47
22 11 23 23-0005	EA		1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B) .....	838.57	176.39
22 11 23 23-0006	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B) .....	1,415.68	182.94
22 11 23 23-0007	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB) .....	1,502.14	182.94
22 11 23 23-0008	EA		1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB) .....	2,197.86	201.42
22 11 23 23-0009	EA		1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB) .....	2,299.28	221.28
22 11 23 23-0010	EA		1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB) .....	2,767.74	243.45
22 11 23 23-0011	EA		1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S) .....	2,841.35	267.94
22 11 23 23-0012	EA		3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S) .....	3,108.12	294.27
22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S) .....	4,389.95	323.84
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S) .....	5,035.20	339.54

#### 22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30) .....	744.98	166.23
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36) .....	1,172.72	166.23
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45) .....	1,179.40	169.47
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45) .....	1,200.30	173.16
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50) .....	1,206.75	176.39
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75) .....	1,231.59	182.94
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2) .....	1,490.91	201.42
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30) .....	1,912.98	243.45
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S) .....	2,022.76	267.94
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S) .....	2,348.66	294.27
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S) .....	3,121.95	323.84
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S) .....	3,624.82	339.54
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	3,287.83	356.63
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	3,540.13	392.02
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	3,889.35	415.76
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	4,872.77	461.96
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	5,210.65	554.44
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	6,607.36	647.03





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**22 12 Facility Potable-Water Storage Tanks (22 10)**

**22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)**

**22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)**

22 12 19 00-0002	EA	5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	26,507.88	7,771.61
22 12 19 00-0003	EA	10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	29,300.76	7,771.61
22 12 19 00-0004	EA	20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	51,294.64	11,993.25
22 12 19 00-0005	EA	35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	66,256.07	15,543.23

**22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)**

22 12 19 00-0007	EA	5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	30,645.48	7,771.61
22 12 19 00-0008	EA	10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	40,368.85	7,771.61
22 12 19 00-0009	EA	20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	60,593.77	11,993.25
22 12 19 00-0010	EA	35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	85,293.32	15,543.23

**22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)**

**22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)**

**22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)**

22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	1,943.18	369.41
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,408.61	461.76
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	4,338.09	507.94
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	4,795.08	554.11
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	9,368.80	600.29
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	8,113.12	646.46
22 12 23 13-0008	EA	400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	13,796.77	692.64
22 12 23 13-0009	EA	500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	12,745.56	738.82
22 12 23 13-0010	EA	750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	13,840.65	784.99
22 12 23 13-0011	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	16,458.46	831.17

**22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)**

22 12 23 13-0013	EA	80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,679.54	369.41
22 12 23 13-0014	EA	120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,151.18	461.76
22 12 23 13-0015	EA	140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	3,918.79	507.94
22 12 23 13-0016	EA	200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	4,821.03	554.11
22 12 23 13-0017	EA	200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	4,120.49	554.11
22 12 23 13-0018	EA	250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	6,292.44	600.29
22 12 23 13-0019	EA	325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	6,809.11	646.46
22 12 23 13-0020	EA	350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	6,490.87	646.46
22 12 23 13-0021	EA	350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	5,940.36	646.46
22 12 23 13-0022	EA	400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	8,068.37	692.64
22 12 23 13-0023	EA	500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	8,748.74	738.82
22 12 23 13-0024	EA	750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	10,134.56	784.99
22 12 23 13-0025	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	18,815.68	831.17

**22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)**

**22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)**

Note: Excludes excavation and backfill.

22 12 23 26-0002	EA	100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	508.75	207.80
		<i>For Saddle Assembly, Add</i>	558.88	
22 12 23 26-0003	EA	150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	595.57	242.43
		<i>For Saddle Assembly, Add</i>	558.88	
22 12 23 26-0004	EA	200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	702.72	277.06
		<i>For Saddle Assembly, Add</i>	627.99	
22 12 23 26-0005	EA	300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	846.45	311.69
		<i>For Saddle Assembly, Add</i>	897.63	
22 12 23 26-0006	EA	335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,005.09	346.33
		<i>For Two Tie Down Bands, Add</i>	328.30	
22 12 23 26-0007	EA	535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,282.78	453.05
		<i>For Two Tie Down Bands, Add</i>	347.27	
22 12 23 26-0008	EA	1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,867.56	528.56
		<i>For Three Tie Down Bands, Add</i>	581.89	
22 12 23 26-0009	EA	1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,641.40	604.07
		<i>For Three Tie Down Bands, Add</i>	585.95	
22 12 23 26-0010	EA	1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,271.88	679.57
		<i>For Four Tie Down Bands, Add</i>	792.11	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 12 Facility Potable-Water Storage Tanks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0011	EA		2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank..... <i>For Four Tie Down Bands, Add</i>	3,818.97 1,068.53	755.08
22 12 23 26-0012	EA		2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank..... <i>For Four Tie Down Bands, Add</i>	5,375.63 1,372.04	830.59
22 12 23 26-0013	EA		3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank..... <i>For Four Tie Down Bands, Add</i>	6,208.00 1,475.02	906.10
22 12 23 26-0014	EA		4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank..... <i>For Four Tie Down Bands, Add</i>	8,885.84 1,653.88	1,208.14
22 12 23 26-0015	EA		5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank..... <i>For Five Tie Down Bands, Add</i>	11,376.17 2,561.91	1,208.14
<b>22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)</b>					
22 12 23 26-0017	EA		100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	574.00	277.06
22 12 23 26-0018	EA		160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	677.03	294.37
22 12 23 26-0019	EA		210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	739.41	311.69
22 12 23 26-0020	EA		300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	884.50	346.33
22 12 23 26-0021	EA		405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,016.14	415.58
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,197.92	484.85
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,623.81	604.07
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,093.46	755.08
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,777.19	906.10
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,588.27	1,057.11
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,162.23	1,208.14
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	6,896.06	1,359.15
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	7,807.43	1,510.16
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,602.27	1,661.18
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	9,876.77	1,812.19
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,128.24	1,963.22
22 12 23 26-0033	EA		10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,666.93	2,114.23
22 12 23 26-0034	EA		12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,400.21	2,416.26
<b>22 13 Facility Sanitary Sewerage (22 10)</b>					
<b>22 13 16 Sanitary Waste And Vent Piping (22 13)</b>					
<b>22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)</b>					
<b>22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)</b>					
Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.					
22 13 16 00-0003	LF		2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	28.06	5.81
<i>For Work In Restricted Working Space, Add</i>				4.27	
22 13 16 00-0004	LF		3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	40.01	8.77
<i>For Work In Restricted Working Space, Add</i>				5.79	
22 13 16 00-0005	LF		4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	51.89	11.18
<i>For Work In Restricted Working Space, Add</i>				7.45	
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	60.36	13.58
<i>For Work In Restricted Working Space, Add</i>				7.64	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	70.79	14.80
<i>For Work In Restricted Working Space, Add</i>				8.49	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	112.02	21.10
<i>For Work In Restricted Working Space, Add</i>				11.95	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	163.52	21.10
<i>For Work In Restricted Working Space, Add</i>				13.52	
<b>22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)</b>					
Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	24.31	5.54
<i>For Work In Restricted Working Space, Add</i>				4.86	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	25.84	5.91
<i>For Work In Restricted Working Space, Add</i>				5.23	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0013	LF			3" Aboveground No Hub Cast Iron Soil Pipe Assembly .....32.98 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 6.41		8.59
22 13 16 00-0014	LF			4" Aboveground No Hub Cast Iron Soil Pipe Assembly .....39.18 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 7.67		11.18
22 13 16 00-0015	LF			5" Aboveground No Hub Cast Iron Soil Pipe Assembly .....50.07 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 9.04		13.32
22 13 16 00-0016	LF			6" Aboveground No Hub Cast Iron Soil Pipe Assembly .....56.29 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 9.85		14.54
22 13 16 00-0017	LF			8" Aboveground No Hub Cast Iron Soil Pipe Assembly .....86.52 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 13.62		20.92
22 13 16 00-0018	LF			10" Aboveground No Hub Cast Iron Soil Pipe Assembly .....119.16 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 15.83		23.77
<b>22 13 16 00-0019</b>				<b>Bell And Spigot Cast Iron Soil Pipe And Fittings</b> (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
<b>22 13 16 00-0020</b>				<b>Bell And Spigot Cast Iron Pipe</b> (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF			2" Bell And Spigot Cast Iron Pipe.....19.86 <i>For Extra Heavy Pipe, Add</i> 4.65 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 0.44 <i>For Work In Restricted Working Space, Add</i> 2.64		5.81
22 13 16 00-0022	LF			3" Bell And Spigot Cast Iron Pipe.....29.07 <i>For Extra Heavy Pipe, Add</i> 6.67 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 0.66 <i>For Work In Restricted Working Space, Add</i> 3.96		8.77
22 13 16 00-0023	LF			4" Bell And Spigot Cast Iron Pipe.....37.43 <i>For Extra Heavy Pipe, Add</i> 8.67 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 0.84 <i>For Work In Restricted Working Space, Add</i> 5.04		11.18
22 13 16 00-0024	LF			5" Bell And Spigot Cast Iron Pipe.....49.44 <i>For Extra Heavy Pipe, Add</i> 12.23 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 1.02 <i>For Work In Restricted Working Space, Add</i> 6.10		13.58
22 13 16 00-0025	LF			6" Bell And Spigot Cast Iron Pipe.....57.63 <i>For Extra Heavy Pipe, Add</i> 14.90 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 1.11 <i>For Work In Restricted Working Space, Add</i> 6.65		14.80
22 13 16 00-0026	LF			8" Bell And Spigot Cast Iron Pipe.....86.82 <i>For Extra Heavy Pipe, Add</i> 23.17 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 1.58 <i>For Work In Restricted Working Space, Add</i> 9.50		21.10
22 13 16 00-0027	LF			10" Bell And Spigot Cast Iron Pipe.....127.45 <i>For Extra Heavy Pipe, Add</i> 38.57 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 1.78 <i>For Work In Restricted Working Space, Add</i> 10.69		23.77
22 13 16 00-0028	LF			12" Bell And Spigot Cast Iron Pipe.....180.89 <i>For Extra Heavy Pipe, Add</i> 56.03 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 2.37 <i>For Work In Restricted Working Space, Add</i> 14.24		31.70
22 13 16 00-0029	LF			15" Bell And Spigot Cast Iron Pipe.....251.96 <i>For Extra Heavy Pipe, Add</i> 81.89 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 2.85 <i>For Work In Restricted Working Space, Add</i> 17.09		38.01
<b>22 13 16 00-0030</b>				<b>Bell And Spigot Cast Iron Fittings</b> (22 13 16 00-0019)		
<b>22 13 16 00-0031</b>				<b>Bell And Spigot Cast Iron Long Sweeps</b> (22 13 16 00-0030)		
22 13 16 00-0032	EA			2" Bell And Spigot Cast Iron Long Sweep.....89.68 <i>For Extra Heavy Fittings, Add</i> 17.49 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 1.99 <i>For Work In Restricted Working Space, Add</i> 11.92		26.51
22 13 16 00-0033	EA			3" Bell And Spigot Cast Iron Long Sweep.....151.28 <i>For Extra Heavy Fittings, Add</i> 35.48 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 2.50 <i>For Work In Restricted Working Space, Add</i> 14.98		33.34
22 13 16 00-0034	EA			4" Bell And Spigot Cast Iron Long Sweep.....201.54 <i>For Extra Heavy Fittings, Add</i> 47.29 <i>For Above Ground Cast Iron Pipe Installation, Add</i> 3.32 <i>For Work In Restricted Working Space, Add</i> 19.93		44.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep .....	313.61	57.46
For Extra Heavy Fittings, Add	79.61	
For Above Ground Cast Iron Pipe Installation, Add	4.31	
For Work In Restricted Working Space, Add	25.84	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep .....	618.62	74.25
For Extra Heavy Fittings, Add	177.57	
For Above Ground Cast Iron Pipe Installation, Add	5.56	
For Work In Restricted Working Space, Add	33.39	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep .....	845.58	91.35
For Extra Heavy Fittings, Add	248.01	
For Above Ground Cast Iron Pipe Installation, Add	6.85	
For Work In Restricted Working Space, Add	41.09	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep .....	1,295.94	127.49
For Extra Heavy Fittings, Add	386.67	
For Above Ground Cast Iron Pipe Installation, Add	9.56	
For Work In Restricted Working Space, Add	57.35	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep .....	2,402.90	177.53
For Extra Heavy Fittings, Add	747.86	
For Above Ground Cast Iron Pipe Installation, Add	13.31	
For Work In Restricted Working Space, Add	79.85	
<b>22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)</b>		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep .....	76.49	26.51
For Extra Heavy Fittings, Add	12.87	
For Above Ground Cast Iron Pipe Installation, Add	1.99	
For Work In Restricted Working Space, Add	11.92	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep .....	129.15	33.34
For Extra Heavy Fittings, Add	27.73	
For Above Ground Cast Iron Pipe Installation, Add	2.50	
For Work In Restricted Working Space, Add	14.98	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep .....	176.65	44.33
For Extra Heavy Fittings, Add	38.57	
For Above Ground Cast Iron Pipe Installation, Add	3.32	
For Work In Restricted Working Space, Add	19.93	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep .....	263.77	48.85
For Extra Heavy Fittings, Add	66.70	
For Above Ground Cast Iron Pipe Installation, Add	3.66	
For Work In Restricted Working Space, Add	21.96	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep .....	318.35	57.46
For Extra Heavy Fittings, Add	81.27	
For Above Ground Cast Iron Pipe Installation, Add	4.31	
For Work In Restricted Working Space, Add	25.84	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep .....	523.23	74.25
For Extra Heavy Fittings, Add	144.18	
For Above Ground Cast Iron Pipe Installation, Add	5.56	
For Work In Restricted Working Space, Add	33.39	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep .....	764.19	91.35
For Extra Heavy Fittings, Add	219.52	
For Above Ground Cast Iron Pipe Installation, Add	6.85	
For Work In Restricted Working Space, Add	41.09	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep .....	1,265.58	127.49
For Extra Heavy Fittings, Add	376.05	
For Above Ground Cast Iron Pipe Installation, Add	9.56	
For Work In Restricted Working Space, Add	57.35	
<b>22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)</b>		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend .....	68.99	26.41
For Extra Heavy Fittings, Add	10.28	
For Above Ground Cast Iron Pipe Installation, Add	1.98	
For Work In Restricted Working Space, Add	11.89	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend .....	103.28	29.73
For Extra Heavy Fittings, Add	20.53	
For Above Ground Cast Iron Pipe Installation, Add	2.23	
For Work In Restricted Working Space, Add	13.38	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend .....	147.47	39.62
For Extra Heavy Fittings, Add	30.83	
For Above Ground Cast Iron Pipe Installation, Add	2.97	
For Work In Restricted Working Space, Add	17.82	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend .....	183.65	43.62
For Extra Heavy Fittings, Add	41.41	
For Above Ground Cast Iron Pipe Installation, Add	3.27	
For Work In Restricted Working Space, Add	19.61	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend .....	220.88	52.24
For Extra Heavy Fittings, Add	49.88	
For Above Ground Cast Iron Pipe Installation, Add	3.92	
For Work In Restricted Working Space, Add	23.51	
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend .....	456.10	68.37
For Extra Heavy Fittings, Add	123.77	
For Above Ground Cast Iron Pipe Installation, Add	5.12	
For Work In Restricted Working Space, Add	30.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend .....	671.52	82.98
<i>For Extra Heavy Fittings, Add</i>	191.50	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.22	
<i>For Work In Restricted Working Space, Add</i>	37.32	
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend .....	884.59	97.94
<i>For Extra Heavy Fittings, Add</i>	258.21	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.34	
<i>For Work In Restricted Working Space, Add</i>	44.06	
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend .....	2,254.38	154.47
<i>For Extra Heavy Fittings, Add</i>	707.99	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.58	
<i>For Work In Restricted Working Space, Add</i>	69.47	
<b>22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)</b>		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend .....	63.16	26.51
<i>For Extra Heavy Fittings, Add</i>	8.20	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.99	
<i>For Work In Restricted Working Space, Add</i>	11.92	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend .....	98.30	33.34
<i>For Extra Heavy Fittings, Add</i>	16.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.50	
<i>For Work In Restricted Working Space, Add</i>	14.98	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend .....	139.84	44.33
<i>For Extra Heavy Fittings, Add</i>	25.69	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.32	
<i>For Work In Restricted Working Space, Add</i>	19.93	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend .....	174.36	54.59
<i>For Extra Heavy Fittings, Add</i>	32.39	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.09	
<i>For Work In Restricted Working Space, Add</i>	24.54	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend .....	201.50	60.86
<i>For Extra Heavy Fittings, Add</i>	38.57	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.56	
<i>For Work In Restricted Working Space, Add</i>	27.39	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend .....	398.55	81.91
<i>For Extra Heavy Fittings, Add</i>	96.51	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.14	
<i>For Work In Restricted Working Space, Add</i>	36.84	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend .....	556.57	101.05
<i>For Extra Heavy Fittings, Add</i>	141.76	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.58	
<i>For Work In Restricted Working Space, Add</i>	45.46	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend .....	897.27	131.06
<i>For Extra Heavy Fittings, Add</i>	245.29	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.82	
<i>For Work In Restricted Working Space, Add</i>	58.93	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend .....	1,713.30	154.47
<i>For Extra Heavy Fittings, Add</i>	518.61	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.58	
<i>For Work In Restricted Working Space, Add</i>	69.47	
<b>22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)</b>		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye.....	111.35	59.20
<i>For Extra Heavy Fittings, Add</i>	7.89	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.44	
<i>For Work In Restricted Working Space, Add</i>	26.64	
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye.....	139.45	64.83
<i>For Extra Heavy Fittings, Add</i>	14.78	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.86	
<i>For Work In Restricted Working Space, Add</i>	29.16	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye.....	183.57	84.97
<i>For Extra Heavy Fittings, Add</i>	19.68	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.37	
<i>For Work In Restricted Working Space, Add</i>	38.21	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye.....	234.56	93.95
<i>For Extra Heavy Fittings, Add</i>	32.79	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.04	
<i>For Work In Restricted Working Space, Add</i>	42.26	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye.....	293.90	111.35
<i>For Extra Heavy Fittings, Add</i>	44.42	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.35	
<i>For Work In Restricted Working Space, Add</i>	50.09	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye.....	535.49	149.57
<i>For Extra Heavy Fittings, Add</i>	108.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.21	
<i>For Work In Restricted Working Space, Add</i>	67.28	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye.....	748.36	169.69
<i>For Extra Heavy Fittings, Add</i>	172.89	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.72	
<i>For Work In Restricted Working Space, Add</i>	76.31	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0077	EA		12" Bell And Spigot Cast Iron Wye.....	1,104.38	206.56
			<i>For Extra Heavy Fittings, Add</i>	278.15	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.48	
			<i>For Work In Restricted Working Space, Add</i>	92.90	
22 13 16 00-0078	EA		15" Bell And Spigot Cast Iron Wye.....	1,708.23	231.76
			<i>For Extra Heavy Fittings, Add</i>	476.28	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.37	
			<i>For Work In Restricted Working Space, Add</i>	104.23	
<b>22 13 16 00-0079</b>			<b>Bell And Spigot Cast Iron Reducing Wyes</b> (22 13 16 00-0030)		
22 13 16 00-0080	EA		3" x 2" Bell And Spigot Cast Iron Reducing Wye.....	173.90	61.87
			<i>For Extra Heavy Fittings, Add</i>	28.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.64	
			<i>For Work In Restricted Working Space, Add</i>	27.84	
22 13 16 00-0081	EA		4" x 2" Bell And Spigot Cast Iron Reducing Wye.....	211.74	76.47
			<i>For Extra Heavy Fittings, Add</i>	33.97	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.73	
			<i>For Work In Restricted Working Space, Add</i>	34.41	
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye.....	235.77	78.41
			<i>For Extra Heavy Fittings, Add</i>	41.35	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.88	
			<i>For Work In Restricted Working Space, Add</i>	35.29	
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye.....	346.45	99.78
			<i>For Extra Heavy Fittings, Add</i>	68.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.48	
			<i>For Work In Restricted Working Space, Add</i>	44.86	
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye.....	355.38	101.61
			<i>For Extra Heavy Fittings, Add</i>	71.05	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.62	
			<i>For Work In Restricted Working Space, Add</i>	45.71	
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye.....	372.11	108.39
			<i>For Extra Heavy Fittings, Add</i>	73.35	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.13	
			<i>For Work In Restricted Working Space, Add</i>	48.76	
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye.....	545.54	120.29
			<i>For Extra Heavy Fittings, Add</i>	127.83	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.02	
			<i>For Work In Restricted Working Space, Add</i>	54.09	
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye.....	570.09	122.60
			<i>For Extra Heavy Fittings, Add</i>	135.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.19	
			<i>For Work In Restricted Working Space, Add</i>	55.13	
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye.....	584.00	128.38
			<i>For Extra Heavy Fittings, Add</i>	137.02	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.63	
			<i>For Work In Restricted Working Space, Add</i>	57.75	
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye.....	689.56	142.81
			<i>For Extra Heavy Fittings, Add</i>	166.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.71	
			<i>For Work In Restricted Working Space, Add</i>	64.25	
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye.....	848.12	133.82
			<i>For Extra Heavy Fittings, Add</i>	226.62	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.03	
			<i>For Work In Restricted Working Space, Add</i>	60.19	
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye.....	882.29	139.70
			<i>For Extra Heavy Fittings, Add</i>	235.48	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.47	
			<i>For Work In Restricted Working Space, Add</i>	62.85	
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye.....	965.30	154.47
			<i>For Extra Heavy Fittings, Add</i>	256.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.58	
			<i>For Work In Restricted Working Space, Add</i>	69.47	
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye.....	1,274.27	163.82
			<i>For Extra Heavy Fittings, Add</i>	360.03	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.28	
			<i>For Work In Restricted Working Space, Add</i>	73.68	
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye.....	1,311.31	163.82
			<i>For Extra Heavy Fittings, Add</i>	373.00	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.28	
			<i>For Work In Restricted Working Space, Add</i>	73.68	
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye.....	1,365.15	177.53
			<i>For Extra Heavy Fittings, Add</i>	384.65	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.31	
			<i>For Work In Restricted Working Space, Add</i>	79.85	
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye.....	1,601.95	186.34
			<i>For Extra Heavy Fittings, Add</i>	462.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.97	
			<i>For Work In Restricted Working Space, Add</i>	83.80	
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye.....	1,945.53	191.86
			<i>For Extra Heavy Fittings, Add</i>	580.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.38	
			<i>For Work In Restricted Working Space, Add</i>	86.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0098	EA			15" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,209.99 1,028.56 13.56 81.37	180.91
22 13 16 00-0099	EA			15" x 6" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,350.49 1,069.92 14.68 88.08	195.78
22 13 16 00-0100	EA			15" x 8" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,419.39 1,089.61 15.31 91.87	204.24
22 13 16 00-0101	EA			15" x 10" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,499.12 1,113.90 15.83 94.97	211.19
22 13 16 00-0102	EA			15" x 12" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,587.90 1,138.51 16.75 100.51	223.47
<b>22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>						
22 13 16 00-0104	EA			2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.01 11.27 4.44 26.64	59.20
22 13 16 00-0105	EA			3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.41 16.87 4.86 29.16	64.83
22 13 16 00-0106	EA			4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.93 23.30 6.37 38.21	84.97
22 13 16 00-0107	EA			5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.36 42.22 7.39 44.32	98.56
22 13 16 00-0108	EA			6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	335.99 53.46 9.16 54.97	122.24
22 13 16 00-0109	EA			8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	613.28 130.14 12.07 72.43	161.06
22 13 16 00-0110	EA			10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	883.87 198.56 15.83 94.97	211.19
22 13 16 00-0111	EA			12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,184.44 272.10 20.35 122.10	271.46
<b>22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>						
22 13 16 00-0113	EA			3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.94 12.65 4.64 27.84	61.87
22 13 16 00-0114	EA			4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.09 23.24 5.73 34.41	76.47
22 13 16 00-0115	EA			4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.31 27.19 5.88 35.29	78.41
22 13 16 00-0116	EA			6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.42 48.61 7.48 44.86	99.78
22 13 16 00-0117	EA			6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	300.30 51.78 7.62 45.71	101.61
22 13 16 00-0118	EA			6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	318.36 54.54 8.13 48.76	108.39



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0119	EA		8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	437.77	120.29
			<i>For Extra Heavy Fittings, Add</i>	90.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.02	
			<i>For Work In Restricted Working Space, Add</i>	54.09	
22 13 16 00-0120	EA		8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	449.97	128.38
			<i>For Extra Heavy Fittings, Add</i>	90.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.63	
			<i>For Work In Restricted Working Space, Add</i>	57.75	
22 13 16 00-0121	EA		8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	567.59	142.81
			<i>For Extra Heavy Fittings, Add</i>	123.70	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.71	
			<i>For Work In Restricted Working Space, Add</i>	64.25	
<b>22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)</b>					
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye.....	195.23	70.83
			<i>For Extra Heavy Fittings, Add</i>	31.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.31	
			<i>For Work In Restricted Working Space, Add</i>	31.85	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye.....	283.40	89.30
			<i>For Extra Heavy Fittings, Add</i>	52.35	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.69	
			<i>For Work In Restricted Working Space, Add</i>	40.15	
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye.....	384.12	112.95
			<i>For Extra Heavy Fittings, Add</i>	75.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.47	
			<i>For Work In Restricted Working Space, Add</i>	50.82	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye.....	732.86	171.08
			<i>For Extra Heavy Fittings, Add</i>	166.72	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.83	
			<i>For Work In Restricted Working Space, Add</i>	76.95	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye.....	1,462.56	202.19
			<i>For Extra Heavy Fittings, Add</i>	405.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.15	
			<i>For Work In Restricted Working Space, Add</i>	90.93	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye.....	1,936.54	226.23
			<i>For Extra Heavy Fittings, Add</i>	559.08	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.96	
			<i>For Work In Restricted Working Space, Add</i>	101.75	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye.....	1,347.38	271.46
			<i>For Extra Heavy Fittings, Add</i>	329.13	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.35	
			<i>For Work In Restricted Working Space, Add</i>	122.10	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye.....	3,780.05	284.91
			<i>For Extra Heavy Fittings, Add</i>	1,173.44	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	21.37	
			<i>For Work In Restricted Working Space, Add</i>	128.21	
<b>22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)</b>					
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	178.18	83.76
			<i>For Extra Heavy Fittings, Add</i>	18.40	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.28	
			<i>For Work In Restricted Working Space, Add</i>	37.69	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	206.99	96.23
			<i>For Extra Heavy Fittings, Add</i>	21.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.22	
			<i>For Work In Restricted Working Space, Add</i>	43.29	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....	224.02	100.94
			<i>For Extra Heavy Fittings, Add</i>	25.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	45.42	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	286.30	118.67
			<i>For Extra Heavy Fittings, Add</i>	37.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.90	
			<i>For Work In Restricted Working Space, Add</i>	53.37	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....	303.39	123.20
			<i>For Extra Heavy Fittings, Add</i>	41.55	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.23	
			<i>For Work In Restricted Working Space, Add</i>	55.40	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	348.82	134.35
			<i>For Extra Heavy Fittings, Add</i>	51.59	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.07	
			<i>For Work In Restricted Working Space, Add</i>	60.42	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	560.83	155.80
			<i>For Extra Heavy Fittings, Add</i>	114.56	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.68	
			<i>For Work In Restricted Working Space, Add</i>	70.06	
22 13 16 00-0139	EA		8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	611.45	184.38
			<i>For Extra Heavy Fittings, Add</i>	117.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.83	
			<i>For Work In Restricted Working Space, Add</i>	82.95	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0140	EA		10" x 4" Bell And Spigot Cast Iron Reducing Double Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	597.48 121.65 12.50 74.98	166.66
22 13 16 00-0141	EA		10" x 6" Bell And Spigot Cast Iron Reducing Double Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	696.38 140.98 14.68 88.08	195.78
22 13 16 00-0142	EA		10" x 8" Bell And Spigot Cast Iron Reducing Double Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	857.04 187.97 16.00 95.99	213.41
22 13 16 00-0143	EA		12" x 6" Bell And Spigot Cast Iron Reducing Double Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	875.42 191.83 16.37 98.20	218.31
22 13 16 00-0144	EA		12" x 8" Bell And Spigot Cast Iron Reducing Double Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.40 266.44 17.81 106.84	237.53
<b>22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>					
22 13 16 00-0146	EA		2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.30 20.00 5.31 31.85	70.83
22 13 16 00-0147	EA		3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.91 27.24 7.10 42.62	94.75
22 13 16 00-0148	EA		4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	287.12 38.33 8.88 53.28	118.48
22 13 16 00-0149	EA		6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	626.22 118.84 14.33 86.00	191.20
<b>22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>					
22 13 16 00-0151	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.69 31.62 6.37 38.21	84.97
22 13 16 00-0152	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.12 39.84 7.22 43.29	96.23
22 13 16 00-0153	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	289.74 45.21 8.03 48.17	107.13
22 13 16 00-0154	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	576.33 126.87 10.69 64.16	142.61
<b>22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees</b> <small>(22 13 16 00-0030)</small>					
22 13 16 00-0156	EA		2" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.42 15.59 4.44 26.66	59.29
22 13 16 00-0157	EA		3" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.60 19.04 4.86 29.16	64.83
22 13 16 00-0158	EA		4" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.92 43.32 5.96 35.74	79.42
22 13 16 00-0159	EA		5" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	350.70 77.13 6.52 39.10	86.89
22 13 16 00-0160	EA		6" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.70 92.55 7.81 46.88	104.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee.....	901.15	136.67
For Extra Heavy Fittings, Add	243.68	
For Above Ground Cast Iron Pipe Installation, Add	10.25	
For Work In Restricted Working Space, Add	61.47	
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee.....	1,352.65	166.66
For Extra Heavy Fittings, Add	385.96	
For Above Ground Cast Iron Pipe Installation, Add	12.50	
For Work In Restricted Working Space, Add	74.98	
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee.....	2,016.15	195.78
For Extra Heavy Fittings, Add	602.90	
For Above Ground Cast Iron Pipe Installation, Add	14.68	
For Work In Restricted Working Space, Add	88.08	
<b>22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)</b>		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	178.12	61.87
For Extra Heavy Fittings, Add	29.87	
For Above Ground Cast Iron Pipe Installation, Add	4.64	
For Work In Restricted Working Space, Add	27.84	
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	210.86	72.49
For Extra Heavy Fittings, Add	35.77	
For Above Ground Cast Iron Pipe Installation, Add	5.43	
For Work In Restricted Working Space, Add	32.60	
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	220.71	72.49
For Extra Heavy Fittings, Add	39.22	
For Above Ground Cast Iron Pipe Installation, Add	5.43	
For Work In Restricted Working Space, Add	32.60	
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	333.32	99.78
For Extra Heavy Fittings, Add	64.33	
For Above Ground Cast Iron Pipe Installation, Add	7.48	
For Work In Restricted Working Space, Add	44.86	
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	346.94	101.61
For Extra Heavy Fittings, Add	68.10	
For Above Ground Cast Iron Pipe Installation, Add	7.62	
For Work In Restricted Working Space, Add	45.71	
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	376.33	108.39
For Extra Heavy Fittings, Add	74.83	
For Above Ground Cast Iron Pipe Installation, Add	8.13	
For Work In Restricted Working Space, Add	48.76	
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	639.79	128.38
For Extra Heavy Fittings, Add	156.55	
For Above Ground Cast Iron Pipe Installation, Add	9.63	
For Work In Restricted Working Space, Add	57.75	
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee .....	802.56	142.81
For Extra Heavy Fittings, Add	205.94	
For Above Ground Cast Iron Pipe Installation, Add	10.71	
For Work In Restricted Working Space, Add	64.25	
<b>22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)</b>		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee .....	114.82	59.20
For Extra Heavy Fittings, Add	9.11	
For Above Ground Cast Iron Pipe Installation, Add	4.44	
For Work In Restricted Working Space, Add	26.64	
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee .....	142.50	64.83
For Extra Heavy Fittings, Add	15.85	
For Above Ground Cast Iron Pipe Installation, Add	4.86	
For Work In Restricted Working Space, Add	29.16	
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee .....	188.72	84.97
For Extra Heavy Fittings, Add	21.48	
For Above Ground Cast Iron Pipe Installation, Add	6.37	
For Work In Restricted Working Space, Add	38.21	
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee .....	239.29	98.56
For Extra Heavy Fittings, Add	32.05	
For Above Ground Cast Iron Pipe Installation, Add	7.39	
For Work In Restricted Working Space, Add	44.32	
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee .....	301.20	122.24
For Extra Heavy Fittings, Add	41.29	
For Above Ground Cast Iron Pipe Installation, Add	9.16	
For Work In Restricted Working Space, Add	54.97	
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee .....	515.95	161.06
For Extra Heavy Fittings, Add	96.08	
For Above Ground Cast Iron Pipe Installation, Add	12.07	
For Work In Restricted Working Space, Add	72.43	
<b>22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)</b>		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee .....	117.87	59.20
For Extra Heavy Fittings, Add	10.17	
For Above Ground Cast Iron Pipe Installation, Add	4.44	
For Work In Restricted Working Space, Add	26.64	
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee .....	130.08	64.83
For Extra Heavy Fittings, Add	11.50	
For Above Ground Cast Iron Pipe Installation, Add	4.86	
For Work In Restricted Working Space, Add	29.16	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0183	EA			4" Bell And Spigot Cast Iron Tapped Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.86 14.18 6.37 38.21	84.97
<b>22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)</b>						
22 13 16 00-0185	EA			2" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.79 10.85 4.44 26.64	59.20
22 13 16 00-0186	EA			3" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.73 12.78 4.86 29.16	64.83
22 13 16 00-0187	EA			4" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.05 17.40 6.37 38.21	84.97
<b>22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)</b>						
22 13 16 00-0189	EA			3" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.38 5.76 2.50 14.98	33.34
22 13 16 00-0190	EA			4" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.18 6.02 3.30 19.79	43.96
22 13 16 00-0191	EA			4" x 3" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.80 7.83 3.32 19.93	44.33
22 13 16 00-0192	EA			6" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.64 11.37 3.96 23.75	52.76
22 13 16 00-0193	EA			6" x 3" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	116.72 12.78 4.01 24.06	53.46
22 13 16 00-0194	EA			6" x 4" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.44 13.52 4.09 24.54	54.59
22 13 16 00-0195	EA			8" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.65 24.96 4.22 25.30	56.25
22 13 16 00-0196	EA			8" x 3" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.04 25.22 5.20 31.19	69.36
22 13 16 00-0197	EA			8" x 4" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.67 25.89 5.33 32.01	71.14
22 13 16 00-0198	EA			8" x 6" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.63 26.37 5.56 33.39	74.25
22 13 16 00-0199	EA			10" x 4" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.80 37.74 6.25 37.49	83.33
22 13 16 00-0200	EA			10" x 6" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.43 39.96 6.56 39.38	87.52
22 13 16 00-0201	EA			10" x 8" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.46 43.57 6.85 41.09	91.35
22 13 16 00-0202	EA			12" x 4" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	324.43 61.62 7.42 44.51	99.01
22 13 16 00-0203	EA			12" x 6" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.01 65.90 8.69 52.12	115.83

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.72 67.85 9.89 59.36	131.94
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	429.36 70.53 11.39 68.36	151.98
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	559.75 116.17 11.39 68.36	151.98
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	595.65 122.51 12.28 73.68	163.82
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	620.31 126.46 12.95 77.70	172.72
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	653.69 132.02 13.83 82.95	184.38
<b>22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)</b>					
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.85 9.85 1.99 11.92	26.51
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.85 14.33 2.50 14.98	33.34
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.78 20.07 3.32 19.93	44.33
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.13 43.03 3.66 21.96	48.85
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	263.18 61.96 4.31 25.84	57.46
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	583.89 165.41 5.56 33.39	74.25
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	647.56 178.70 6.85 41.09	91.35
<b>22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)</b>					
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.54 13.59 1.99 11.92	26.51
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.86 21.68 2.50 14.98	33.34
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.84 33.74 3.32 19.93	44.33
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	266.49 64.64 4.09 24.54	54.59
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	282.86 67.05 4.56 27.39	60.86
<b>22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)</b>					
22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.24 4.86 29.16	64.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.73 6.37 38.21	84.13
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.46 7.17 43.00	94.81
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	652.77 8.13 48.76	107.44
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,138.75 9.63 57.75	126.96
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,315.80 10.71 64.25	141.65
<b>22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent</b> (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.01 6.69 40.15	88.38
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.65 8.47 50.82	111.56
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	727.85 10.07 60.42	132.78
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	844.30 12.18 73.07	160.72
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,303.88 11.68 70.06	153.94
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,528.33 13.83 82.95	182.78
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,362.25 16.00 95.99	210.92
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,652.88 18.47 110.83	243.86
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,054.49 21.38 128.26	282.06
<b>22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings</b> (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.03 1.98 11.89	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.07 2.23 13.35	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.02 2.98 17.89	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.37 3.46 20.78	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.41 4.18 25.10	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	633.05 5.29 31.73	
<b>22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe</b> (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.03 0.55 3.31	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.04 0.60 3.61	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.04 0.75 4.51	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.05 0.90 5.42	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.07 1.20 7.22	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	28.08	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.40	
<i>For Work In Restricted Working Space, Add</i>	8.42	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	33.09	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.65	
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	38.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.91	
<i>For Work In Restricted Working Space, Add</i>	11.43	
<b>22 13 16 00-0257 Joint Material</b> (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	5.18	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	9.75	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.02	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.14	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.14	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.52	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	18.80	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	28.83	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	36.73	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	43.63	
<b>22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings</b> (22 13 16)		
Note: Service Weight. Excludes hangers.		
<b>22 13 16 00-0269 No Hub Cast Iron Pipe</b> (22 13 16 00-0268)		
Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe.....	12.97	5.54
<i>For Below Ground Installation, Add</i>	0.42	
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe.....	13.80	5.91
<i>For Below Ground Installation, Add</i>	0.45	
<i>For Work In Restricted Working Space, Add</i>	2.68	
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe.....	19.68	8.59
<i>For Below Ground Installation, Add</i>	0.65	
<i>For Work In Restricted Working Space, Add</i>	3.88	
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe.....	25.54	11.18
<i>For Below Ground Installation, Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	5.04	
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe.....	32.16	13.32
<i>For Below Ground Installation, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	5.99	
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe.....	36.84	14.54
<i>For Below Ground Installation, Add</i>	1.09	
<i>For Work In Restricted Working Space, Add</i>	6.53	
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe.....	55.45	20.92
<i>For Below Ground Installation, Add</i>	1.57	
<i>For Work In Restricted Working Space, Add</i>	9.39	
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe.....	75.63	23.77
<i>For Below Ground Installation, Add</i>	1.78	
<i>For Work In Restricted Working Space, Add</i>	10.69	
<b>22 13 16 00-0278 No Hub Cast Iron Fittings</b> (22 13 16 00-0268)		
<b>22 13 16 00-0279 No Hub Cast Iron Long Sweeps</b> (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep.....	51.51	26.22
<i>For Below Ground Installation, Add</i>	1.97	
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep.....	51.81	26.22
<i>For Below Ground Installation, Add</i>	1.97	
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep.....	60.73	30.02
<i>For Below Ground Installation, Add</i>	2.25	
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep.....	82.95	39.71
<i>For Below Ground Installation, Add</i>	2.98	
<i>For Work In Restricted Working Space, Add</i>	17.87	
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep.....	108.93	43.97
<i>For Below Ground Installation, Add</i>	3.29	
<i>For Work In Restricted Working Space, Add</i>	19.77	
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep.....	129.38	52.41
<i>For Below Ground Installation, Add</i>	3.93	
<i>For Work In Restricted Working Space, Add</i>	23.60	
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep.....	240.44	67.84
<i>For Below Ground Installation, Add</i>	5.09	
<i>For Work In Restricted Working Space, Add</i>	30.53	
<b>22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps</b> (22 13 16 00-0278)		





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0288	EA		3" x 2" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.65 2.25 13.52	30.02
22 13 16 00-0289	EA		4" x 3" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.58 2.98 17.87	39.71
<b>22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)</b>					
22 13 16 00-0291	EA		2" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.22 1.97 11.79	26.22
22 13 16 00-0292	EA		3" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.68 2.25 13.52	30.02
22 13 16 00-0293	EA		4" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.87 2.98 17.87	39.71
22 13 16 00-0294	EA		5" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.33 3.29 19.77	43.97
22 13 16 00-0295	EA		6" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.07 3.93 23.60	52.41
22 13 16 00-0296	EA		8" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.38 5.09 30.53	67.84
22 13 16 00-0297	EA		10" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	352.88 7.12 42.74	95.00
<b>22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)</b>					
22 13 16 00-0299	EA		1-1/2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.38 1.88 11.31	25.12
22 13 16 00-0300	EA		2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.43 1.97 11.79	26.22
22 13 16 00-0301	EA		3" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.78 2.25 13.52	30.02
22 13 16 00-0302	EA		4" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.47 2.98 17.87	39.71
22 13 16 00-0303	EA		5" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.37 3.29 19.77	43.97
22 13 16 00-0304	EA		6" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.98 3.93 23.60	52.41
22 13 16 00-0305	EA		8" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.54 5.09 30.53	67.84
<b>22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)</b>					
22 13 16 00-0307	EA		1-1/2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.73 1.88 11.31	25.12
22 13 16 00-0308	EA		2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.47 1.97 11.79	26.22
22 13 16 00-0309	EA		3" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.85 2.25 13.52	30.02
22 13 16 00-0310	EA		4" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.15 2.98 17.87	39.71
22 13 16 00-0311	EA		6" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	114.36 4.40 26.39	58.64
22 13 16 00-0312	EA		8" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.74 5.77 34.64	77.02
22 13 16 00-0313	EA		10" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	274.67 7.10 42.62	94.75
<b>22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)</b>					
22 13 16 00-0315	EA		1-1/2" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.93 2.96 17.76	39.53

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0316	EA		2" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.17 4.02 24.09	53.56
22 13 16 00-0317	EA		3" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.79 4.40 26.39	58.64
22 13 16 00-0318	EA		4" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.53 5.77 34.64	77.02
22 13 16 00-0319	EA		5" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.42 6.42 38.49	85.58
22 13 16 00-0320	EA		6" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.13 7.62 45.71	101.61
22 13 16 00-0321	EA		8" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	348.60 10.18 61.05	135.77
22 13 16 00-0322	EA		10" No Hub Cast Iron Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	540.30 11.31 67.84	150.82
<b>22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)</b>					
22 13 16 00-0324	EA		3" x 1-1/2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.34 3.83 22.99	51.16
22 13 16 00-0325	EA		3" x 2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.65 4.40 26.39	58.64
22 13 16 00-0326	EA		4" x 2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.19 4.86 29.16	64.83
22 13 16 00-0327	EA		4" x 3" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.08 5.40 32.40	72.03
22 13 16 00-0328	EA		6" x 2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.97 6.48 38.90	86.46
22 13 16 00-0329	EA		6" x 3" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.98 6.77 40.63	90.37
22 13 16 00-0330	EA		6" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.42 7.92 47.49	105.62
22 13 16 00-0331	EA		8" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.13 8.00 48.02	106.75
22 13 16 00-0332	EA		8" x 6" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.46 8.79 52.76	117.35
22 13 16 00-0333	EA		10" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	404.71 9.37 56.23	125.00
22 13 16 00-0334	EA		10" x 6" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	427.97 10.03 60.19	133.82
22 13 16 00-0335	EA		10" x 8" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	487.21 10.71 64.26	142.90
<b>22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>					
22 13 16 00-0337	EA		1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.78 3.45 20.68	45.99
22 13 16 00-0338	EA		2" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.61 4.02 24.09	53.56
22 13 16 00-0339	EA		3" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.10 4.40 26.39	58.64
22 13 16 00-0340	EA		4" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.87 5.77 34.64	77.02
22 13 16 00-0341	EA		6" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.75 8.88 53.28	118.48
22 13 16 00-0342	EA		8" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	439.05 11.40 68.37	152.01
22 13 16 00-0343	EA		10" No Hub Cast Iron Combination Wye And 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	517.95 13.78 82.65	183.79



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0278)</small>		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	92.15	53.56
For Below Ground Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.09	
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	101.31	58.64
For Below Ground Installation, Add	4.40	
For Work In Restricted Working Space, Add	26.39	
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	115.49	64.83
For Below Ground Installation, Add	4.66	
For Work In Restricted Working Space, Add	29.16	
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	131.28	72.03
For Below Ground Installation, Add	5.40	
For Work In Restricted Working Space, Add	32.40	
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	172.58	86.46
For Below Ground Installation, Add	6.48	
For Work In Restricted Working Space, Add	38.90	
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	189.78	90.37
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.63	
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	214.13	105.62
For Below Ground Installation, Add	7.92	
For Work In Restricted Working Space, Add	47.49	
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	270.62	106.75
For Below Ground Installation, Add	8.00	
For Work In Restricted Working Space, Add	48.02	
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	341.30	117.35
For Below Ground Installation, Add	8.79	
For Work In Restricted Working Space, Add	52.76	
<b>22 13 16 00-0354 No Hub Cast Iron Double Wyes</b> <small>(22 13 16 00-0278)</small>		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye.....	114.98	66.59
For Below Ground Installation, Add	4.99	
For Work In Restricted Working Space, Add	29.95	
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye.....	149.45	81.08
For Below Ground Installation, Add	6.08	
For Work In Restricted Working Space, Add	36.46	
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye.....	190.35	88.66
For Below Ground Installation, Add	6.64	
For Work In Restricted Working Space, Add	39.86	
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye.....	290.99	128.08
For Below Ground Installation, Add	9.60	
For Work In Restricted Working Space, Add	57.59	
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye.....	527.18	172.72
For Below Ground Installation, Add	12.95	
For Work In Restricted Working Space, Add	77.70	
<b>22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes</b> <small>(22 13 16 00-0278)</small>		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye.....	134.55	73.79
For Below Ground Installation, Add	5.53	
For Work In Restricted Working Space, Add	33.18	
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye.....	159.57	84.97
For Below Ground Installation, Add	6.37	
For Work In Restricted Working Space, Add	38.22	
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye.....	175.16	92.63
For Below Ground Installation, Add	6.94	
For Work In Restricted Working Space, Add	41.66	
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye.....	249.61	112.92
For Below Ground Installation, Add	8.47	
For Work In Restricted Working Space, Add	50.79	
<b>22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0278)</small>		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	146.48	79.98
For Below Ground Installation, Add	6.00	
For Work In Restricted Working Space, Add	35.98	
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	173.99	88.66
For Below Ground Installation, Add	6.64	
For Work In Restricted Working Space, Add	39.86	
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	254.43	117.38
For Below Ground Installation, Add	8.80	
For Work In Restricted Working Space, Add	52.77	
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	363.30	181.20
For Below Ground Installation, Add	13.58	
For Work In Restricted Working Space, Add	81.49	
<b>22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0278)</small>		

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.97 5.16 30.95	68.80
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.42 6.00 35.98	79.98
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.57 6.55 39.30	87.36
<b>22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)</b>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.27 2.90 17.42	38.70
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.71 4.02 24.09	53.56
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.58 4.40 26.39	58.64
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.77 5.77 34.64	77.02
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.99 6.42 38.49	85.58
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.72 7.62 45.71	101.61
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.70 10.18 61.05	135.77
<b>22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)</b>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.90 3.28 19.65	43.69
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.29 3.83 22.99	51.16
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.96 4.02 24.09	53.56
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.01 4.02 24.09	53.56
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.87 5.43 32.60	72.49
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.04 5.43 32.60	72.49
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.56 6.09 36.57	81.32
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.98 6.09 36.57	81.32
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.52 6.09 36.57	81.32
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.85 6.35 38.09	84.72
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	305.16 8.58 51.49	114.50
<b>22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)</b>		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.73 1.97 11.79	26.22
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.78 2.25 13.52	30.02
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.61 2.98 17.87	39.71
<b>22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.74 1.97 11.79	26.22
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.23 2.25 13.52	30.02
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.26 2.98 17.87	39.71
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.99 4.40 26.39	58.64
<b>22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees</b> (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.63 5.77 34.64	77.02
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.21 8.77 52.64	117.01
<b>22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs</b> (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.31 1.97 11.79	26.22
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.36 2.25 13.52	30.02
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.55 2.98 17.87	39.71
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.31 4.40 26.39	58.64
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.18 5.77 34.64	77.02
<b>22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses</b> (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.36 3.88 23.28	51.71
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.51 4.02 24.09	53.56
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.03 4.40 26.39	58.64
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.35 5.77 34.64	77.02
<b>22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses</b> (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.51 5.16 30.95	68.80
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.60 5.31 31.86	70.83
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.36 5.54 33.25	73.97
<b>22 13 16 00-0421 No Hub Cast Iron Reducers</b> (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.08 4.02 24.09	53.56
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.45 5.43 32.60	72.49
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.72 5.43 32.60	72.49
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.81 6.09 36.57	81.32
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.60 6.09 36.57	81.32





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer.....	137.30	81.32
For Below Ground Installation, Add	6.09	
For Work In Restricted Working Space, Add	36.57	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer.....	157.73	90.37
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.63	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer.....	158.00	90.37
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.63	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer.....	158.81	90.37
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.63	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer.....	219.65	126.69
For Below Ground Installation, Add	9.50	
For Work In Restricted Working Space, Add	56.98	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer.....	221.71	126.69
For Below Ground Installation, Add	9.50	
For Work In Restricted Working Space, Add	56.98	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer.....	225.02	126.69
For Below Ground Installation, Add	9.50	
For Work In Restricted Working Space, Add	56.98	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer.....	228.46	126.69
For Below Ground Installation, Add	9.50	
For Work In Restricted Working Space, Add	56.98	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer.....	228.86	126.69
For Below Ground Installation, Add	9.50	
For Work In Restricted Working Space, Add	56.98	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer.....	264.13	133.64
For Below Ground Installation, Add	10.02	
For Work In Restricted Working Space, Add	60.10	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer.....	280.73	139.51
For Below Ground Installation, Add	10.46	
For Work In Restricted Working Space, Add	62.77	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer.....	312.70	151.44
For Below Ground Installation, Add	11.35	
For Work In Restricted Working Space, Add	68.11	
<b>22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)</b>		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug.....	41.00	25.12
For Below Ground Installation, Add	1.88	
For Work In Restricted Working Space, Add	11.31	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug.....	42.47	26.22
For Below Ground Installation, Add	1.97	
For Work In Restricted Working Space, Add	11.79	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug.....	50.68	30.02
For Below Ground Installation, Add	2.25	
For Work In Restricted Working Space, Add	13.52	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug.....	67.13	39.71
For Below Ground Installation, Add	2.98	
For Work In Restricted Working Space, Add	17.87	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug.....	81.07	45.27
For Below Ground Installation, Add	3.35	
For Work In Restricted Working Space, Add	20.11	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug.....	92.82	52.41
For Below Ground Installation, Add	3.93	
For Work In Restricted Working Space, Add	23.60	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug.....	146.44	67.84
For Below Ground Installation, Add	5.09	
For Work In Restricted Working Space, Add	30.53	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug.....	173.83	73.09
For Below Ground Installation, Add	5.48	
For Work In Restricted Working Space, Add	32.87	
<b>22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)</b>		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap.....	51.00	26.22
For Below Ground Installation, Add	1.97	
For Work In Restricted Working Space, Add	11.79	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap.....	71.73	30.02
For Below Ground Installation, Add	2.25	
For Work In Restricted Working Space, Add	13.52	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap.....	105.92	39.71
For Below Ground Installation, Add	2.98	
For Work In Restricted Working Space, Add	17.87	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap.....	172.44	44.32
For Below Ground Installation, Add	3.32	
For Work In Restricted Working Space, Add	19.92	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap.....	185.37	52.85
For Below Ground Installation, Add	3.96	
For Work In Restricted Working Space, Add	23.77	

22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0455	EA		2" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.85 2.50 14.98	33.34
22 13 16 00-0456	EA		3" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.99 3.32 19.93	44.33
22 13 16 00-0457	EA		4" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.23 4.39 26.32	58.55
<b>22 13 16 00-0458</b>			<b>No Hub Cast Iron Closet Flanges</b> (22 13 16 00-0278)		
22 13 16 00-0459	EA		4" No Hub Cast Iron Closet Flange ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.13 2.98 17.87	39.71
22 13 16 00-0460	EA		4" x 2-1/2" No Hub Cast Iron Offset Closet Flange ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.98 2.98 17.87	39.71
<b>22 13 16 00-0461</b>			<b>No Hub Cast Iron Closet Bends</b> (22 13 16 00-0278)		
22 13 16 00-0462	EA		4" x 16" No Hub Cast Iron Closet Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.20 2.98 17.87	39.71
<b>22 13 16 00-0463</b>			<b>No Hub Cast Iron Threaded Adapter</b> (22 13 16 00-0278)		
22 13 16 00-0464	EA		1-1/4" No Hub Cast Iron Threaded Adapter ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.97 2.50 14.98	33.34
22 13 16 00-0465	EA		1-1/2" No Hub Cast Iron Threaded Adapter ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.07 2.50 14.98	33.34
<b>22 13 16 00-0466</b>			<b>No Hub Couplings</b> (22 13 16 00-0278) Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).		
22 13 16 00-0467	EA		1-1/2" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	5.84 0.76 1.58	
22 13 16 00-0468	EA		2" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	5.84 0.76 1.58	
22 13 16 00-0469	EA		3" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	6.93 0.90 1.87	
22 13 16 00-0470	EA		4" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	8.23 1.07 2.22	
22 13 16 00-0471	EA		5" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	19.02 2.47 5.14	
22 13 16 00-0472	EA		6" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	20.90 2.72 5.64	
22 13 16 00-0473	EA		8" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	39.37 5.12 10.63	
22 13 16 00-0474	EA		10" No Hub Coupling ..... <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	54.24 7.05 14.64	
22 13 16 00-0475	EA		2" x 1-1/2" No Hub Reducing Coupling .....	6.93	
22 13 16 00-0476	EA		3" x 2" No Hub Reducing Coupling .....	10.75	
22 13 16 00-0477	EA		4" x 2" No Hub Reducing Coupling .....	14.99	
22 13 16 00-0478	EA		4" x 3" No Hub Reducing Coupling .....	12.77	
<b>22 13 16 00-0479</b>			<b>Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts</b> (22 13 16 00-0278) Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.		
22 13 16 00-0480	EA		1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	22.22	
22 13 16 00-0481	EA		2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	22.94	
22 13 16 00-0482	EA		3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	24.08	
22 13 16 00-0483	EA		4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	28.10	
22 13 16 00-0484	EA		5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	53.04	
22 13 16 00-0485	EA		6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	72.82	
22 13 16 00-0486	EA		8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	127.58	
22 13 16 00-0487	EA		10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts .....	194.95	
<b>22 13 16 00-0488</b>			<b>Cut And Prepare Existing Pipe In-Place</b> (22 13 16 00-0288) Note: For use when connecting pipe to an existing in-place system.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	9.03 2.71	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	11.03 3.31	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	12.04 3.61	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	15.04 4.51	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	18.05 5.42	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	24.07 7.22	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	28.08 8.42	
<b>22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe</b> <small>(22 13 16)</small> See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	10.54	4.34
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	12.31	4.85
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe	15.66	5.97
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe	36.51	8.29
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe	47.64	9.34
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe	82.13	10.73
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	119.13	16.64
<b>22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 13 16)</small> Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
<b>22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies</b> <small>(22 13 16 00-0504)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	19.08 4.45	3.88
22 13 16 00-0507 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	21.24 4.94	4.62
22 13 16 00-0508 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	28.65 6.14	6.65
22 13 16 00-0509 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.36 6.71	7.20
22 13 16 00-0510 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	46.91 8.60	9.23
22 13 16 00-0511 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	58.20 9.85	12.28
22 13 16 00-0512 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	79.41 12.84	16.44
<b>22 13 16 00-0513 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe</b> <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
<b>22 13 16 00-0514 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665)</b> <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0515 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	6.63 1.73	3.88
22 13 16 00-0516 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	8.04 2.08	4.62
22 13 16 00-0517 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	12.19 2.98	6.65
22 13 16 00-0518 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	13.96 3.23	7.20
22 13 16 00-0519 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	18.70 3.91	8.71
22 13 16 00-0520 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	26.02 5.23	11.58
22 13 16 00-0521 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	36.39 6.97	15.49



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0522			<b>Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891)</b> <small>(22 13 16 00-0513)</small>		
			Note: Excludes fittings or hangers.		
22 13 16 00-0523	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	6.37 1.73	3.88
22 13 16 00-0524	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.74 2.08	4.62
22 13 16 00-0525	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.61 2.98	6.65
22 13 16 00-0526	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	13.19 3.23	7.20
22 13 16 00-0527	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	17.26 3.91	8.71
22 13 16 00-0528	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	24.00 5.23	11.58
22 13 16 00-0529	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	34.20 6.97	15.49
22 13 16 00-0530			<b>Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665)</b> <small>(22 13 16 00-0504)</small>		
22 13 16 00-0531			<b>Polyvinyl Chloride (PVC) DWV 1/4 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0532	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	25.16 6.93	15.42
22 13 16 00-0533	EA		2" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	32.18 8.87	19.68
22 13 16 00-0534	EA		3" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	47.87 11.91	26.41
22 13 16 00-0535	EA		4" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	63.49 13.85	30.75
22 13 16 00-0536	EA		6" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	165.36 18.01	39.98
22 13 16 00-0537	EA		8" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	261.23 24.24	53.85
22 13 16 00-0538	EA		10" Polyvinyl Chloride (PVC) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	345.61 32.32	71.76
22 13 16 00-0539			<b>Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0540	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	30.97 6.93	15.42
22 13 16 00-0541	EA		2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	35.52 8.87	19.68
22 13 16 00-0542	EA		3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	56.46 11.91	26.41
22 13 16 00-0543	EA		4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	79.25 13.85	30.75
22 13 16 00-0544	EA		6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	134.92 18.01	39.98
22 13 16 00-0545	EA		8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	221.23 24.24	53.85
22 13 16 00-0546	EA		10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	344.89 32.32	71.76
22 13 16 00-0547			<b>Polyvinyl Chloride (PVC) DWV 1/8 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0548	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	25.64 6.93	15.42
22 13 16 00-0549	EA		2" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	32.14 8.87	19.68
22 13 16 00-0550	EA		3" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	47.15 11.91	26.41
22 13 16 00-0551	EA		4" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	59.99 13.85	30.75
22 13 16 00-0552	EA		6" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	156.44 18.01	39.98
22 13 16 00-0553	EA		8" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	240.51 24.24	53.85
22 13 16 00-0554	EA		10" Polyvinyl Chloride (PVC) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	284.67 32.32	71.76
22 13 16 00-0555			<b>Polyvinyl Chloride (PVC) DWV Sanitary Tees</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	38.33 10.39	23.09
22 13 16 00-0557	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	49.62 13.30	29.55
22 13 16 00-0558	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	73.66 17.87	39.71
22 13 16 00-0559	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	96.13 20.78	46.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0560 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	246.28 27.02	59.94
22 13 16 00-0561 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	323.18 36.36	80.71
<b>22 13 16 00-0562 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0563 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	44.54 11.36	25.21
22 13 16 00-0564 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	50.33 12.33	27.34
22 13 16 00-0565 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	46.39 12.33	27.34
22 13 16 00-0566 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	62.04 15.38	34.17
22 13 16 00-0567 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	64.76 16.35	36.29
22 13 16 00-0568 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	72.20 17.32	38.41
22 13 16 00-0569 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	97.37 18.29	40.64
22 13 16 00-0570 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	115.54 19.81	43.96
22 13 16 00-0571 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	234.21 24.94	55.32
22 13 16 00-0572 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	629.82 31.17	69.17
22 13 16 00-0573 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	653.70 33.25	73.79
<b>22 13 16 00-0574 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0575 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	57.32 13.85	30.75
22 13 16 00-0576 EA 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	75.42 17.73	39.34
22 13 16 00-0577 EA 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	125.18 23.83	52.92
22 13 16 00-0578 EA 4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	165.92 27.71	61.51
<b>22 13 16 00-0579 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0580 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	67.39 15.79	35.10
22 13 16 00-0581 EA 3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	97.44 18.84	41.83
22 13 16 00-0582 EA 3" x 2" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	110.31 20.78	46.18
22 13 16 00-0583 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	166.11 22.72	50.43
22 13 16 00-0584 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	178.75 25.77	57.16
<b>22 13 16 00-0585 Polyvinyl Chloride (PVC) DWV Reducers</b> (22 13 16 00-0530)		
22 13 16 00-0586 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	30.46 7.90	17.54
22 13 16 00-0587 EA 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	44.61 9.42	20.87
22 13 16 00-0588 EA 3" x 2" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	45.69 10.39	23.09
22 13 16 00-0589 EA 4" x 2" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	59.75 11.36	25.21
22 13 16 00-0590 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	65.82 12.88	28.63
22 13 16 00-0591 EA 6" x 3" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	165.46 14.96	33.24
22 13 16 00-0592 EA 6" x 4" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	145.93 15.93	35.37
22 13 16 00-0593 EA 8" x 4" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	318.22 19.05	42.30
22 13 16 00-0594 EA 8" x 6" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	280.00 21.13	46.91
22 13 16 00-0595 EA 10" x 6" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	369.14 25.16	55.88
22 13 16 00-0596 EA 10" x 8" Polyvinyl Chloride (PVC) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	308.27 28.28	62.80
<b>22 13 16 00-0597 Polyvinyl Chloride (PVC) DWV P-Traps</b> (22 13 16 00-0530)		
22 13 16 00-0598 EA 1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	41.87 10.39	23.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0599 EA 2" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	54.20 13.30	29.55
22 13 16 00-0600 EA 3" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	108.71 17.87	39.71
22 13 16 00-0601 EA 4" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	186.30 20.78	46.18
22 13 16 00-0602 EA 6" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	296.97 27.02	59.94
<b>22 13 16 00-0603 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)</b>		
22 13 16 00-0604 EA 4" Polyvinyl Chloride (PVC) DWV Closet Flanges ..... <i>For Work In Restricted Working Space, Add</i>	60.07 13.85	30.75
22 13 16 00-0605 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges ..... <i>For Work In Restricted Working Space, Add</i>	52.65 12.88	28.63
<b>22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)</b>		
22 13 16 00-0607 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	42.03 10.39	23.09
22 13 16 00-0608 EA 2" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	51.77 13.30	29.55
22 13 16 00-0609 EA 3" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	76.40 17.87	39.71
22 13 16 00-0610 EA 4" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	100.63 20.78	46.18
22 13 16 00-0611 EA 6" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	229.41 27.02	59.94
22 13 16 00-0612 EA 8" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	291.13 36.36	80.71
22 13 16 00-0613 EA 10" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	384.57 48.48	107.59
<b>22 13 16 00-0614 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)</b>		
22 13 16 00-0615 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	51.07 11.36	25.21
22 13 16 00-0616 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	54.19 12.33	27.34
22 13 16 00-0617 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	71.83 15.38	34.17
22 13 16 00-0618 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	67.50 16.35	36.29
22 13 16 00-0619 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	90.37 17.32	38.41
22 13 16 00-0620 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	86.15 18.29	40.64
22 13 16 00-0621 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	95.45 19.81	43.96
22 13 16 00-0622 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	206.31 23.97	53.19
22 13 16 00-0623 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	244.81 24.94	55.32
22 13 16 00-0624 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	249.53 31.17	69.17
22 13 16 00-0625 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	301.37 33.25	73.79
22 13 16 00-0626 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	294.91 39.25	87.09
22 13 16 00-0627 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	350.64 41.33	91.71
22 13 16 00-0628 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	399.99 44.45	98.64
<b>22 13 16 00-0629 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)</b>		
22 13 16 00-0630 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	61.94 13.85	30.75
22 13 16 00-0631 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	79.36 17.73	39.34
22 13 16 00-0632 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	131.75 23.83	52.92
22 13 16 00-0633 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	198.43 27.71	61.51
22 13 16 00-0634 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	360.31 36.02	79.98
22 13 16 00-0635 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	432.77 48.49	107.68
22 13 16 00-0636 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	647.55 64.64	143.52
<b>22 13 16 00-0637 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0638 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	71.14 15.79	35.10
22 13 16 00-0639 EA 3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	108.71 18.84	41.83
22 13 16 00-0640 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	108.23 20.78	46.18
22 13 16 00-0641 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	139.32 22.72	50.43
22 13 16 00-0642 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	169.89 25.77	57.16
22 13 16 00-0643 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	244.16 31.86	70.74
22 13 16 00-0644 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	287.63 38.09	84.60
22 13 16 00-0645 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	352.04 42.25	93.83
22 13 16 00-0646 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	375.40 46.17	102.51
22 13 16 00-0647 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	465.75 50.33	111.74
22 13 16 00-0648 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	553.54 56.56	125.59
<b>22 13 16 00-0649 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0530)</b>		
22 13 16 00-0650 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	46.65 10.39	23.09
22 13 16 00-0651 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	58.97 13.30	29.55
22 13 16 00-0652 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	98.05 17.87	39.71
22 13 16 00-0653 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	149.17 20.78	46.18
<b>22 13 16 00-0654 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0530)</b>		
22 13 16 00-0655 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.42 12.33	27.34
22 13 16 00-0656 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	103.94 15.38	34.17
22 13 16 00-0657 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	87.41 16.35	36.29
22 13 16 00-0658 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	134.20 18.29	40.64
22 13 16 00-0659 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	145.37 19.81	43.96
<b>22 13 16 00-0660 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0530)</b>		
22 13 16 00-0661 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	65.52 13.85	30.75
22 13 16 00-0662 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	79.76 17.73	39.34
22 13 16 00-0663 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.31 23.83	52.92
22 13 16 00-0664 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	281.44 27.71	61.51
22 13 16 00-0665 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	806.55 36.02	79.98
<b>22 13 16 00-0666 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0530)</b>		
22 13 16 00-0667 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.92 15.79	35.10
22 13 16 00-0668 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	176.48 20.78	46.18
22 13 16 00-0669 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	275.53 22.72	50.43
22 13 16 00-0670 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	260.75 25.77	57.16
22 13 16 00-0671 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	554.68 31.86	70.74
<b>22 13 16 00-0672 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0530)</b>		
22 13 16 00-0673 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	79.55 13.30	29.55
22 13 16 00-0674 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	126.86 17.87	39.71





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22 13 16 00-0675 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	186.32 20.78	46.18
22 13 16 00-0676 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	430.16 27.02	59.94
22 13 16 00-0677 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	544.66 36.36	80.71
22 13 16 00-0678 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	723.28 48.48	107.59
<b>22 13 16 00-0679 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0530)</b>		
22 13 16 00-0680 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	29.18 6.93	15.42
22 13 16 00-0681 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	39.38 8.87	19.68
22 13 16 00-0682 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	54.83 11.91	26.41
22 13 16 00-0683 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	81.71 13.85	30.75
22 13 16 00-0684 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	157.56 18.01	39.98
22 13 16 00-0685 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	318.63 24.24	53.85
22 13 16 00-0686 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	560.09 32.30	71.76
<b>22 13 16 00-0687 Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0530)</b>		
22 13 16 00-0688 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	24.89 6.93	15.42
22 13 16 00-0689 EA 2" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	31.58 8.87	19.68
22 13 16 00-0690 EA 3" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	44.90 11.91	26.41
22 13 16 00-0691 EA 4" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	54.70 13.85	30.75
22 13 16 00-0692 EA 6" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	107.07 18.01	39.98
22 13 16 00-0693 EA 8" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	216.70 24.24	53.85
22 13 16 00-0694 EA 10" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	318.33 32.33	71.76
<b>22 13 16 00-0695 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0530)</b>		
22 13 16 00-0696 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	13.38 3.47	7.66
22 13 16 00-0697 EA 2" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	19.27 4.43	9.88
22 13 16 00-0698 EA 3" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	32.32 5.96	13.21
22 13 16 00-0699 EA 4" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	51.64 6.93	15.42
<b>22 13 16 00-0700 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504)</b>		
Note: In place piping.		
22 13 16 00-0701 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	6.77	
22 13 16 00-0702 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	7.45	
22 13 16 00-0703 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	9.48	
22 13 16 00-0704 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	12.79	
22 13 16 00-0705 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	18.27	
22 13 16 00-0706 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	24.37	
22 13 16 00-0707 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	29.79	
<b>22 13 16 00-0708 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16)</b>		
Note: Aboveground installation.		
<b>22 13 16 00-0709 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0708)</b>		
Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	19.53 5.31	3.88
22 13 16 00-0711 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	21.64 5.88	4.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	28.07  7.31	6.65
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	31.71  8.12	7.20
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	47.19  10.80	9.23
<b>22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0708)</b> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	6.77 1.73	3.88
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	8.26 2.08	4.62
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	12.70 2.98	6.65
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	14.73 3.23	7.20
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	21.11 3.91	8.71
<b>22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0708)</b>		
<b>22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0721)</b>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	27.33 6.93	15.42
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	35.60 8.87	19.68
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	58.38 11.91	26.41
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	82.76 13.85	30.75
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	196.56 18.01	39.98
<b>22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0721)</b>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	33.20 6.93	15.42
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	41.33 8.87	19.68
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	72.61 11.91	26.41
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	111.08 13.85	30.75
<b>22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0721)</b>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	28.13 6.93	15.42
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	35.04 8.87	19.68
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	55.46 11.91	26.41
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	77.37 13.85	30.75
22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	202.25 18.01	39.98
<b>22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0721)</b>		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	41.85 10.39	23.09
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	55.19 13.30	29.55
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	87.24 17.87	39.71
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	122.42 20.78	46.18
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	378.17 27.02	59.94



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0745			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0746	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....49.38	49.38	25.21
				<i>For Work In Restricted Working Space, Add</i> .....11.36	11.36	
	22 13 16 00-0747	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....57.27	57.27	27.34
				<i>For Work In Restricted Working Space, Add</i> .....12.33	12.33	
	22 13 16 00-0748	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....51.51	51.51	27.34
				<i>For Work In Restricted Working Space, Add</i> .....12.33	12.33	
	22 13 16 00-0749	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....72.39	72.39	34.17
				<i>For Work In Restricted Working Space, Add</i> .....15.38	15.38	
	22 13 16 00-0750	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....75.81	75.81	36.29
				<i>For Work In Restricted Working Space, Add</i> .....16.35	16.35	
	22 13 16 00-0751	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....134.33	134.33	38.41
				<i>For Work In Restricted Working Space, Add</i> .....17.32	17.32	
	22 13 16 00-0752	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....132.47	132.47	40.64
				<i>For Work In Restricted Working Space, Add</i> .....18.29	18.29	
	22 13 16 00-0753	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....149.90	149.90	43.96
				<i>For Work In Restricted Working Space, Add</i> .....19.81	19.81	
	22 13 16 00-0754	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....405.26	405.26	55.32
				<i>For Work In Restricted Working Space, Add</i> .....24.94	24.94	
	22 13 16 00-0755			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0756	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....68.12	68.12	30.75
				<i>For Work In Restricted Working Space, Add</i> .....13.85	13.85	
	22 13 16 00-0757	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....91.12	91.12	39.34
				<i>For Work In Restricted Working Space, Add</i> .....17.73	17.73	
	22 13 16 00-0758	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....169.35	169.35	52.92
				<i>For Work In Restricted Working Space, Add</i> .....23.83	23.83	
	22 13 16 00-0759	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....236.48	236.48	61.51
				<i>For Work In Restricted Working Space, Add</i> .....27.71	27.71	
	22 13 16 00-0760			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0761	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....77.53	77.53	35.10
				<i>For Work In Restricted Working Space, Add</i> .....15.79	15.79	
	22 13 16 00-0762	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....108.63	108.63	41.83
				<i>For Work In Restricted Working Space, Add</i> .....18.84	18.84	
	22 13 16 00-0763	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....123.50	123.50	46.18
				<i>For Work In Restricted Working Space, Add</i> .....20.78	20.78	
	22 13 16 00-0764	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....190.84	190.84	47.54
				<i>For Work In Restricted Working Space, Add</i> .....21.42	21.42	
	22 13 16 00-0765	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....203.71	203.71	53.89
				<i>For Work In Restricted Working Space, Add</i> .....24.29	24.29	
	22 13 16 00-0766			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Wyes</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0767	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....49.17	49.17	23.09
				<i>For Work In Restricted Working Space, Add</i> .....10.39	10.39	
	22 13 16 00-0768	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes .....59.26	59.26	29.55
				<i>For Work In Restricted Working Space, Add</i> .....13.30	13.30	
	22 13 16 00-0769	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....92.62	92.62	39.71
				<i>For Work In Restricted Working Space, Add</i> .....17.87	17.87	
	22 13 16 00-0770	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....130.84	130.84	46.18
				<i>For Work In Restricted Working Space, Add</i> .....20.78	20.78	
	22 13 16 00-0771	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....315.96	315.96	59.94
				<i>For Work In Restricted Working Space, Add</i> .....27.02	27.02	
	22 13 16 00-0772			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0773	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....63.81	63.81	25.21
				<i>For Work In Restricted Working Space, Add</i> .....11.36	11.36	
	22 13 16 00-0774	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes .....66.78	66.78	27.34
				<i>For Work In Restricted Working Space, Add</i> .....12.33	12.33	
	22 13 16 00-0775	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....80.17	80.17	36.29
				<i>For Work In Restricted Working Space, Add</i> .....16.35	16.35	
	22 13 16 00-0776	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....110.43	110.43	40.64
				<i>For Work In Restricted Working Space, Add</i> .....18.29	18.29	
	22 13 16 00-0777	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....123.83	123.83	43.96
				<i>For Work In Restricted Working Space, Add</i> .....19.81	19.81	
	22 13 16 00-0778	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....269.77	269.77	55.32
				<i>For Work In Restricted Working Space, Add</i> .....24.94	24.94	
	22 13 16 00-0779			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes</b> <small>(22 13 16 00-0721)</small>		
	22 13 16 00-0780	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....77.11	77.11	30.75
				<i>For Work In Restricted Working Space, Add</i> .....13.85	13.85	
	22 13 16 00-0781	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....98.89	98.89	39.34
				<i>For Work In Restricted Working Space, Add</i> .....17.73	17.73	
	22 13 16 00-0782	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....182.27	182.27	52.92
				<i>For Work In Restricted Working Space, Add</i> .....23.83	23.83	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0783	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	300.69 27.71	61.51
<b>22 13 16 00-0784</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0785	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	88.98 15.79	35.10
22 13 16 00-0786	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	135.35 18.84	41.83
22 13 16 00-0787	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	145.63 20.78	46.18
22 13 16 00-0788	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	200.65 22.72	50.43
22 13 16 00-0789	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	250.89 25.77	57.16
<b>22 13 16 00-0790</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0791	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	57.86 10.39	23.09
22 13 16 00-0792	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	74.52 13.30	29.55
22 13 16 00-0793	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.31 17.87	39.71
22 13 16 00-0794	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	162.95 19.59	43.53
<b>22 13 16 00-0795</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0796	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	65.55 12.33	27.34
22 13 16 00-0797	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.15 15.38	34.17
22 13 16 00-0798	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	90.67 16.35	36.29
22 13 16 00-0799	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	141.54 18.29	40.64
22 13 16 00-0800	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	153.30 19.81	43.96
<b>22 13 16 00-0801</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0802	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	113.76 17.73	39.34
22 13 16 00-0803	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	205.47 23.83	52.92
<b>22 13 16 00-0804</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	96.62 15.79	35.10
22 13 16 00-0806	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	193.17 20.78	46.18
<b>22 13 16 00-0807</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0808	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	61.95 10.39	23.09
22 13 16 00-0809	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	78.61 13.30	29.55
22 13 16 00-0810	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	118.46 17.87	39.71
22 13 16 00-0811	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	179.34 20.78	46.18
<b>22 13 16 00-0812</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0813	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	32.46 6.93	15.42
22 13 16 00-0814	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	44.67 8.87	19.68
22 13 16 00-0815	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	62.94 11.91	26.41
22 13 16 00-0816	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	100.87 13.85	30.75



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0817	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	210.17 18.01	39.98
<b>22 13 16 00-0818</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Couplings</b> (22 13 16 00-0721)		
22 13 16 00-0819	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	26.32 6.93	15.42
22 13 16 00-0820	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	32.95 8.87	19.68
22 13 16 00-0821	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	48.97 11.91	26.41
22 13 16 00-0822	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	61.45 13.85	30.75
22 13 16 00-0823	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	135.49 18.01	39.98
<b>22 13 16 00-0824</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducers</b> (22 13 16 00-0721)		
22 13 16 00-0825	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	34.50 7.90	17.54
22 13 16 00-0826	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	57.35 9.42	20.87
22 13 16 00-0827	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	56.39 10.39	23.09
22 13 16 00-0828	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	80.77 11.36	25.21
22 13 16 00-0829	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	87.84 12.88	28.63
<b>22 13 16 00-0830</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps</b> (22 13 16 00-0721)		
22 13 16 00-0831	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	50.50 10.39	23.09
22 13 16 00-0832	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	70.01 13.30	29.55
22 13 16 00-0833	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	177.20 17.87	39.71
22 13 16 00-0834	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	310.26 20.78	46.18
<b>22 13 16 00-0835</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges</b> (22 13 16 00-0721)		
22 13 16 00-0836	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	68.33 13.85	30.75
22 13 16 00-0837	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	63.72 12.88	28.63
<b>22 13 16 00-0838</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters</b> (22 13 16 00-0721)		
22 13 16 00-0839	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	15.67 3.47	7.66
22 13 16 00-0840	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	22.08 4.43	9.88
22 13 16 00-0841	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	41.13 5.96	13.21
22 13 16 00-0842	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	70.15 6.93	15.42
<b>22 13 16 00-0843</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings</b> (22 13 16 00-0721)		
22 13 16 00-0844	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	29.72 7.90	17.54
22 13 16 00-0845	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	49.76 9.42	20.87
22 13 16 00-0846	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	46.30 10.39	23.09
22 13 16 00-0847	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	80.18 11.36	25.21
22 13 16 00-0848	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	67.47 12.88	28.63
22 13 16 00-0849	EA		6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	146.23 15.02	33.34
<b>22 13 16 00-0850</b>			<b>Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings</b> (22 13 16 00-0721)		
22 13 16 00-0851	EA		1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	52.93 6.93	15.42
22 13 16 00-0852	EA		2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	61.38 8.87	19.68
22 13 16 00-0853	EA		3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	73.53 11.91	26.41





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0854	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling..... <i>For Work In Restricted Working Space, Add</i>	81.99 13.85	30.75
<b>22 13 16 00-0855</b>			<b>Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe</b> <small>(22 13 16 00-0708)</small> Note: In place piping.		
22 13 16 00-0856	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	6.77	
22 13 16 00-0857	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	7.45	
22 13 16 00-0858	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	9.48	
22 13 16 00-0859	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	12.79	
22 13 16 00-0860	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	18.27	
<b>22 13 16 00-0861</b>			<b>Elastomeric Flexible Pipe Couplings</b> <small>(22 13 16)</small>		
<b>22 13 16 00-0862</b>			<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings</b> <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0863	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)..... <i>For Work In Restricted Working Space, Add</i>	13.51 2.41	4.01
22 13 16 00-0864	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)..... <i>For Work In Restricted Working Space, Add</i>	14.61 2.56	4.26
22 13 16 00-0865	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)..... <i>For Work In Restricted Working Space, Add</i>	15.34 2.71	4.51
22 13 16 00-0866	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)..... <i>For Work In Restricted Working Space, Add</i>	18.06 2.86	4.77
22 13 16 00-0867	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)..... <i>For Work In Restricted Working Space, Add</i>	20.69 3.01	5.02
22 13 16 00-0868	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)..... <i>For Work In Restricted Working Space, Add</i>	27.25 3.16	5.27
22 13 16 00-0869	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)..... <i>For Work In Restricted Working Space, Add</i>	33.86 3.31	5.52
22 13 16 00-0870	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)..... <i>For Work In Restricted Working Space, Add</i>	47.15 3.61	6.01
22 13 16 00-0871	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)..... <i>For Work In Restricted Working Space, Add</i>	62.85 4.21	7.02
<b>22 13 16 00-0872</b>			<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings</b> <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0873	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)..... <i>For Work In Restricted Working Space, Add</i>	14.40 2.56	4.26
22 13 16 00-0874	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)..... <i>For Work In Restricted Working Space, Add</i>	15.70 2.71	4.51
22 13 16 00-0875	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)..... <i>For Work In Restricted Working Space, Add</i>	19.82 2.86	4.77
22 13 16 00-0876	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)..... <i>For Work In Restricted Working Space, Add</i>	17.41 2.86	4.77
22 13 16 00-0877	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)..... <i>For Work In Restricted Working Space, Add</i>	25.02 3.01	5.02
22 13 16 00-0878	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)..... <i>For Work In Restricted Working Space, Add</i>	23.80 3.01	5.02
22 13 16 00-0879	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)..... <i>For Work In Restricted Working Space, Add</i>	21.51 3.01	5.02
22 13 16 00-0880	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)..... <i>For Work In Restricted Working Space, Add</i>	32.62 3.16	5.27
22 13 16 00-0881	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)..... <i>For Work In Restricted Working Space, Add</i>	29.12 3.16	5.27
22 13 16 00-0882	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)..... <i>For Work In Restricted Working Space, Add</i>	41.07 3.31	5.52
22 13 16 00-0883	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64)..... <i>For Work In Restricted Working Space, Add</i>	35.85 3.31	5.52
22 13 16 00-0884	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65)..... <i>For Work In Restricted Working Space, Add</i>	37.30 3.31	5.52
22 13 16 00-0885	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84)..... <i>For Work In Restricted Working Space, Add</i>	73.80 6.02	10.02
22 13 16 00-0886	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86)..... <i>For Work In Restricted Working Space, Add</i>	59.32 6.02	10.02
22 13 16 00-0887	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)..... <i>For Work In Restricted Working Space, Add</i>	76.02 6.77	11.28
<b>22 13 16 00-0888</b>			<b>Elastomeric Flexible Pipe Caps (Fernco QC)</b> <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0889	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	45.94	27.08
22 13 16 00-0890	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	49.44	28.79
22 13 16 00-0891	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	57.47	33.00
22 13 16 00-0892	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	75.72	43.63
22 13 16 00-0893	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	90.89	52.16





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	104.29	60.18
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	142.68	76.23
22 13 16 00-0896 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	180.41	85.25
22 13 16 00-0897 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	236.58	94.78
<b>22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)</b>		
22 13 16 00-0899 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	86.43	20.78
22 13 16 00-0900 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	91.05	23.09
22 13 16 00-0901 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	136.95	30.02
22 13 16 00-0902 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	160.62	34.63
22 13 16 00-0903 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	187.47	39.25
22 13 16 00-0904 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	318.49	43.87
<b>22 13 16 00-0905 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)</b>		
22 13 16 00-0906 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	149.06	20.78
22 13 16 00-0907 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	153.68	23.09
22 13 16 00-0908 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	183.60	30.02
22 13 16 00-0909 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	228.66	34.63
22 13 16 00-0910 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	309.56	39.25
22 13 16 00-0911 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	318.79	43.87
<b>22 13 16 00-0912 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)</b>		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0913 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap .....	277.97	20.78
22 13 16 00-0914 EA 2" Cast Iron Vandal Proof Hooded Vent Cap .....	282.59	23.09
22 13 16 00-0915 EA 3" Cast Iron Vandal Proof Hooded Vent Cap .....	325.99	30.02
22 13 16 00-0916 EA 4" Cast Iron Vandal Proof Hooded Vent Cap .....	367.25	34.63
22 13 16 00-0917 EA 5" Cast Iron Vandal Proof Hooded Vent Cap .....	428.20	39.25
22 13 16 00-0918 EA 6" Cast Iron Vandal Proof Hooded Vent Cap .....	468.21	43.87
<b>22 13 19 Sanitary Waste Piping Specialties (22 13)</b>		
<b>22 13 19 13 Sanitary Drains (22 13 19)</b>		
<b>22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)</b>		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	622.98	99.28
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	684.94	111.28
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	670.73	123.11
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	696.09	135.85
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	627.43	111.28
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	651.17	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	676.53	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,030.38	111.28
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,054.12	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,079.48	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	971.70	111.28
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	995.31	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,020.80	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,065.49	111.19
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,089.20	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,114.69	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,667.95	111.19
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,691.66	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,717.15	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,587.75	111.19
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,611.46	123.11
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,636.95	135.85
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
<b>22 13 19 13-0024 Square Or Rectangular Top Drains</b> <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	738.83	111.19
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	762.80	123.20
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	788.03	135.85
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	797.51	111.19
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	821.48	123.20
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	846.71 11.00 105.00 22.50	135.85
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,055.71 11.00 105.00 22.50	111.19
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,079.68 11.00 105.00 22.50	123.20
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,104.91 11.00 105.00 22.50	135.85
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	695.79 11.00 105.00 22.50	111.19
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	719.76 11.00 105.00 22.50	123.20
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	744.99 11.00 105.00 22.50	135.85
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	770.12 11.00 105.00 22.50	111.19
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	794.09 11.00 105.00 22.50	123.20
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	819.32 11.00 105.00 22.50	135.85
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	979.42 11.00 105.00 22.50	111.19
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,003.39 11.00 105.00 22.50	123.20
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,028.62 11.00 105.00 22.50	135.85
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,513.46 318.00 48.50 76.00	123.20
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,538.69 318.00 48.50 76.00	135.85
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,151.13 318.00 48.50 76.00	123.20
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,176.36 318.00 48.50 76.00	135.85
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,074.85 318.00 48.50 76.00	123.20
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,100.08 318.00 48.50 76.00	135.85
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,071.36 11.00 120.94 22.50	111.19
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,095.33 11.00 120.94 22.50	123.20



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0051	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,120.56 11.00 120.94 22.50	135.85
22 13 19	13-0052	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,374.54 11.00 120.94 22.50	111.19
22 13 19	13-0053	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,398.51 11.00 120.94 22.50	123.20
22 13 19	13-0054	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,423.74 11.00 120.94 22.50	135.85
22 13 19	13-0055	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,444.96 11.00 120.94 22.50	111.19
22 13 19	13-0056	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,468.93 11.00 120.94 22.50	123.20
22 13 19	13-0057	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,494.16 11.00 120.94 22.50	135.85
22 13 19	13-0058	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,990.70 11.00 120.94 22.50	111.19
22 13 19	13-0059	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,014.67 11.00 120.94 22.50	123.20
22 13 19	13-0060	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,039.90 11.00 120.94 22.50	135.85
22 13 19	13-0061	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,008.76 11.00 120.94 22.50	111.19
22 13 19	13-0062	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,032.73 11.00 120.94 22.50	123.20
22 13 19	13-0063	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,057.96 11.00 120.94 22.50	135.85
22 13 19	13-0064	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,266.96 11.00 120.94 22.50	111.19
22 13 19	13-0065	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,290.93 11.00 120.94 22.50	123.20
22 13 19	13-0066	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,316.16 11.00 120.94 22.50	135.85
22 13 19	13-0067	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,337.38 11.00 120.94 22.50	111.19
22 13 19	13-0068	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,361.35 11.00 120.94 22.50	123.20
22 13 19	13-0069	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,386.58 11.00 120.94 22.50	135.85
22 13 19	13-0070	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,781.40 11.00 120.94 22.50	111.19
22 13 19	13-0071	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,805.37 11.00 120.94 22.50	123.20

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top .....	1,830.60	135.85
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
<b>22 13 19 13-0073</b>			<b>Funnel Type Floor Drains</b> <small>(22 13 19 13)</small>		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top .....	1,010.37	99.28
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top .....	1,034.19	111.19
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top .....	1,057.90	123.11
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top .....	1,083.39	135.85
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top .....	1,474.30	111.19
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top .....	1,498.01	123.11
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top .....	1,523.50	135.85
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top .....	1,398.02	111.19
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top .....	1,421.73	123.11
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top .....	1,447.22	135.85
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
<b>22 13 19 13-0084</b>			<b>Floor Drain With Sediment Bucket Bottom Outlet</b> <small>(22 13 19 13)</small>		
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap .....	2,129.14	99.28
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap .....	2,153.05	111.19
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap .....	2,176.76	123.11
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap .....	2,202.25	135.85
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap .....	2,228.53	148.96
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate .....	2,301.71	111.19
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,325.68	123.20
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,350.91	135.85
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,377.19	148.96
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,419.53	111.19
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,443.50	123.20
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,468.73	135.85
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,495.01	148.96
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,149.14	111.19
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,173.11	123.20
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,198.34	135.85
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,224.62	148.96
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
<b>22 13 19 13-0102</b>			<b>Other Drains</b> <small>(22 13 19 13)</small>		
<b>22 13 19 13-0103</b>			<b>Shower Drains</b> <small>(22 13 19 13-0102)</small>		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	34.55	10.02
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	37.96	10.02
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	81.15	20.06
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	100.76	20.06
			Note: For 2" pipe. Kohler K-9132.		
<b>22 13 19 13-0108</b>			<b>Acid Resistant Floor Drains</b> <small>(22 13 19 13-0102)</small>		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,018.10	99.28
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Primer Tap, Add</i>	33.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top .....	1,042.01	111.19
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top .....	1,065.72	123.11
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
<b>22 13 19 13-0112 Rotary And Lever Drains</b> (22 13 19 13-0102)		
22 13 19 13-0113 EA 1-1/2" Drain, 3" Sink Opening Lever Drain .....	223.88	66.95
22 13 19 13-0114 EA 2" Drain, 3" Sink Opening Lever Drain .....	237.73	73.88
22 13 19 13-0115 EA 1-1/2" Drain, 3-1/2" Sink Opening Lever Drain .....	223.88	66.95
22 13 19 13-0116 EA 2" Drain, 3-1/2" Sink Opening Lever Drain .....	237.73	73.88
22 13 19 13-0117 EA 1-1/2" Drain, 3" Sink Opening Twist Drain .....	223.88	66.95
22 13 19 13-0118 EA 2" Drain, 3" Sink Opening Twist Drain .....	237.73	73.88
22 13 19 13-0119 EA 1-1/2" Drain, 3-1/2" Sink Opening Twist Drain .....	223.88	66.95
22 13 19 13-0120 EA 2" Drain, 3-1/2" Sink Opening Twist Drain .....	237.73	73.88
22 13 19 13-0121 EA 1-1/2"-2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100) .....	307.15	73.88
<b>22 13 19 13-0122 Floor Receptor</b> (22 13 19 13)		
<b>22 13 19 13-0123 9" Diameter Round Shallow Receptor</b> (22 13 19 13-0122)		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection .....	1,247.55	111.28
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection .....	1,271.63	123.29
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection .....	1,296.60	135.85
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
<b>22 13 19 13-0127 Square Top Floor Receptors</b> (22 13 19 13-0122)		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top .....	1,466.13	99.28
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top .....	1,490.05	111.28
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top .....	1,513.66	123.11
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,539.15	135.85
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
<b>22 13 19 13-0132 Floor Drain Accessories</b> <small>(22 13 19 13)</small>		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	71.50	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22).....	59.40	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33).....	64.24	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	76.34	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	69.08	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02).....	95.89	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03).....	105.64	11.55
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04).....	129.83	11.55
Note: Prevents emission of sewer gases.		
<b>22 13 19 26 Grease Removal Devices</b> <small>(22 13 19)</small>		
22 13 19 26-0001 <b>Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26)</small>		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 <b>Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0001)</small>		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zum Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	808.20	69.27
Note: Josam 60102H.		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,296.93	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	940.44	155.84
Note: Josam 60103H.		
<i>For Flange And Clamp Device, Add</i>	364.06	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,369.29	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	1,315.63	173.16
Note: Josam 60104H.		
<i>For Flange And Clamp Device, Add</i>	375.60	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,495.08	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	1,581.68	190.47
Note: Josam 60105H.		
<i>For Flange And Clamp Device, Add</i>	387.15	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,615.44	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	1,768.69	207.80
Note: Josam 60106H.		
<i>For Flange And Clamp Device, Add</i>	429.09	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,681.08	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,166.97	242.43
Note: Josam 60107H.		
<i>For Flange And Clamp Device, Add</i>	463.38	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,848.18	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,811.14	277.06
Note: Josam 60108H.		
<i>For Flange And Clamp Device, Add</i>	527.43	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,968.26	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	5,433.69	311.69
Note: Josam 60109H.		
<i>For Flange And Clamp Device, Add</i>	751.79	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	6,123.17	358.34
Note: Josam 60110H.		
<i>For Flange And Clamp Device, Add</i>	846.90	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	7,597.03	573.33
Note: Josam 60213A.		
<i>For Flange And Clamp Device, Add</i>	1,150.23	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	10,867.59	716.67
Note: Josam 60214A.		
<i>For Flange And Clamp Device, Add</i>	1,375.06	
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	12,684.99	860.00
Note: Josam 60215A.		
<i>For Flange And Clamp Device, Add</i>	1,783.58	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	16,445.65	1,003.34
Note: Josam 60216A.		
<i>For Flange And Clamp Device, Add</i>	2,116.90	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	21,227.91	1,146.68
Note: Josam 60217A.		
<i>For Flange And Clamp Device, Add</i>	2,485.73	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 13 19 26-0017		<b>Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0001)</small>		
		Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,244.07	190.47
		Note: Josam 60115A.		
22 13 19 26-0019	EA	35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,885.81	242.43
		Note: Josam 60117A.		
22 13 19 26-0020	EA	50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,711.33	277.06
		Note: Smith 8150.		
22 13 19 26-0021		<b>Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26)</small>		
		Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022		<b>Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0021)</small>		
		Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	1,960.69	69.27
		Note: Josam 60102-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,296.93	
22 13 19 26-0024	EA	10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	2,302.86	155.84
		Note: Josam 60103-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,369.29	
22 13 19 26-0025	EA	15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	2,463.10	173.16
		Note: Josam 60104-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,495.08	
22 13 19 26-0026	EA	20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	2,997.62	190.47
		Note: Josam 60105-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,615.44	
22 13 19 26-0027	EA	25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	3,604.90	207.80
		Note: Josam 60106-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,681.08	
22 13 19 26-0028	EA	35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	3,738.47	242.43
		Note: Josam 60107-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,848.18	
22 13 19 26-0029	EA	50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....	4,267.65	277.06
		Note: Josam 60108-SA.		
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,968.26	
22 13 19 26-0030		<b>Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0021)</small>		
		Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA	35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor.....	4,989.66	242.43
		Note: Josam 60115A-SA.		
22 13 19 26-0032		<b>Automatic Cleaning Stainless Steel Grease Interceptor</b> <small>(22 13 19 26)</small>		
22 13 19 26-0033	EA	20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor .....	4,307.46	190.47
		Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		
22 13 19 26-0034	EA	25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor .....	4,994.17	207.80
		Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).		
22 13 19 26-0035	EA	35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35).....	4,315.29	242.43
22 13 19 26-0036		<b>Precast Concrete Grease Interceptor</b> <small>(22 13 19 26)</small>		
		Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037	EA	1,000 Gallon Pre-Cast Grease Interceptor .....	4,863.02	321.28
22 13 19 26-0038	EA	1,250 Gallon Pre-Cast Grease Interceptor .....	5,569.68	321.28
22 13 19 26-0039	EA	1,500 Gallon Pre-Cast Grease Interceptor .....	6,321.16	367.30
22 13 19 26-0040	EA	2,000 Gallon Pre-Cast Grease Interceptor .....	7,180.86	518.71
22 13 19 26-0041	EA	2,500 Gallon Pre-Cast Grease Interceptor .....	8,071.11	697.89
22 13 19 26-0042	EA	4,000 Gallon Pre-Cast Grease Interceptor .....	12,121.68	918.19
22 13 19 26-0043	EA	5,000 Gallon Pre-Cast Grease Interceptor .....	15,521.84	1,505.69
22 13 19 26-0044		<b>Coated Steel Manual Oil Interceptor</b> <small>(22 13 19 26)</small>		
		Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045	EA	10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	2,944.85	263.77
22 13 19 26-0046	EA	15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	3,943.90	313.41
22 13 19 26-0047	EA	20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,778.56	385.62
22 13 19 26-0048	EA	25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	5,189.82	417.71
22 13 19 26-0049	EA	35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	6,203.22	455.82
22 13 19 26-0050	EA	50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	8,122.86	501.46
22 13 19 26-0051	EA	75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	13,485.58	577.21
22 13 19 26-0052	EA	100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	14,787.34	710.20
22 13 19 26-0053	EA	150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	18,099.59	769.75
22 13 19 26-0054	EA	200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	25,244.29	923.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	29,082.19	992.79
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	36,597.44	1,183.96
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	43,937.03	970.17
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	52,051.24	1,154.40
 <b>22 13 19 33 Backwater Valves (22 13 19)</b>		
<b>22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)</b>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve.....	315.38	26.51
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve.....	325.54	33.34
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve.....	468.30	44.33
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve.....	1,239.71	60.86
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve.....	1,517.79	80.11
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve.....	4,349.12	98.82
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve.....	4,931.96	128.17
 <b>22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)</b>		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	786.68	63.19
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	1,190.02	76.65
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	1,473.99	98.82
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	2,053.77	110.58
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	2,836.91	131.04
 <b>22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)</b>		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,092.30	100.02
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,141.80	132.99
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,105.89	163.77
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,134.36	182.58
 <b>22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)</b>		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	97.27	33.34
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	118.64	44.33
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	313.76	60.86
 <b>22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)</b>		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) .....	223.77	66.68
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) .....	297.96	88.66
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) .....	498.46	121.72
Note: Includes valve body, flapper assembly and collar.		
 <b>22 13 19 36 Air-Admittance Valves (22 13 19)</b>		
<b>22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)</b>		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	134.47	12.93
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	159.57	12.93
 <b>22 13 23 Sanitary Waste Interceptors (22 13)</b>		
<b>22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)</b>		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1180).....	781.83	130.78
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1184).....	782.75	130.78
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,082.69	130.78
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,082.69	130.78
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,150.60	130.78
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
<b>22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)</b>		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	311.99	44.73
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	317.71	47.64
For Stainless Steel Bucket, Add	175.00	
<b>22 13 23 00-0010 Sediment Strainers (22 13 23)</b>		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	140.41	60.95
<b>22 13 29 Sanitary Sewerage Pumps (22 13)</b>		
Note: Includes extra set of gaskets, bearings and seals.		
<b>22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)</b>		
<b>22 13 29 13-0001 Vertical Non-Clog Sewage Pumps (22 13 29 13)</b>		
<b>22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,356.74	1,107.86
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,549.80	1,107.86
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,742.86	1,107.86
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,927.01	1,107.86
<b>22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,891.37	1,107.86
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,965.63	1,107.86
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,017.61	1,107.86
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,374.03	1,107.86
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,723.03	1,107.86
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,257.66	1,107.86
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,792.30	1,107.86
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,059.86	1,474.32
<b>22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,263.44	1,107.86
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,263.44	1,107.86
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,392.09	1,107.86
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,390.31	1,107.86
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,565.42	1,107.86
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,121.45	1,474.32
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,566.98	1,474.32
<b>22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)</b>		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
<b>22 13 29 13-0030 Float Switches (22 13 29 13-0001)</b>		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
<b>22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)</b>		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	524.51	36.94
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	580.84	41.56
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	804.87	55.41
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,160.33	64.65
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,242.73	66.95
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,327.84	69.27
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	1,688.99	83.12
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	2,277.87	92.35
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	2,888.45	115.45
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	3,662.12	126.98





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**22 13 29 16 Submersible Sewerage Pumps (22 13 29)**

Note: Includes 25' of cord with pumps unless otherwise noted.

22 13 29 16-0001			Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002			Submersible Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0003	EA		1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	540.03	67.20
22 13 29 16-0004	EA		1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	697.63	67.20
22 13 29 16-0005	EA		1 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	841.55	84.00
22 13 29 16-0006			Submersible Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0007	EA		1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	792.26	67.20
22 13 29 16-0008	EA		1 HP Submersible Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	970.28	84.00
22 13 29 16-0009	EA		1-1/2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	1,187.64	135.39
22 13 29 16-0010	EA		2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	1,313.09	165.48
22 13 29 16-0011			Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)		
22 13 29 16-0012	EA		1 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,689.41	84.00
22 13 29 16-0013	EA		1.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,877.55	134.13
22 13 29 16-0014	EA		2 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,420.95	163.94
22 13 29 16-0015	EA		3 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,816.93	198.72
22 13 29 16-0016	EA		5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	3,282.77	233.49
22 13 29 16-0017	EA		7.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	3,435.40	268.27
22 13 29 16-0018			Submersible Sewage Pumps Accessories (22 13 29 16)		
22 13 29 16-0019	EA		Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewage Pump .....	324.82	76.30
			Note: Includes alarm horn, warning light, and single control float switches.		
22 13 29 16-0020	EA		Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	740.58	101.74
			Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0021	EA		Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	953.36	101.74
			Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0022	EA		Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	1,067.98	127.17
			Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0023	EA		High-water Alarm For Submersible Sewage Pump .....	248.01	50.86
22 13 29 16-0024	EA		Float Switch For Submersible Sewage Pump .....	94.93	25.44
22 13 29 16-0025	EA		Rail System With 2" Discharge For Submersible Sewage Pump .....	460.47	76.30
22 13 29 33			<b>Sewerage Pump Basins And Pits (22 13 29)</b>		
22 13 29 33-0001			Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002			High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA		18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	115.98	
22 13 29 33-0004	EA		18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	149.08	
22 13 29 33-0005	EA		24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	333.14	
22 13 29 33-0006	EA		24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	465.93	
22 13 29 33-0007	EA		30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	598.72	
22 13 29 33-0008	EA		36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	695.90	
22 13 29 33-0009			Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010	EA		18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....	203.43	
22 13 29 33-0011	EA		24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....	393.83	
22 13 29 33-0012	EA		30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....	692.80	
22 13 29 33-0013	EA		36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....	925.23	
22 13 29 33-0014	EA		36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....	1,063.64	
22 13 29 33-0015	EA		36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub .....	1,123.56	
22 13 29 33-0016	EA		36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub .....	1,316.17	
22 13 29 33-0017	EA		48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....	1,526.67	

22 60 Gas And Vacuum Systems For Laboratory And Healthcare

**22 Plumbing****22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 13 Facility Sanitary Sewerage**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COSTFacilities <sup>(22)</sup>

## 22 66 Chemical-Waste Systems For Laboratory And Healthcare

Facilities <sup>(22 60)</sup>**22 66 53 Laboratory Chemical-Waste And Vent Piping <sup>(22 66)</sup>**

22 66 53 00-0001	Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <sup>(22 66 53)</sup>		
22 66 53 00-0002	Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings <sup>(22 66 53 00-0001)</sup>		
22 66 53 00-0003	Schedule 40 Polypropylene Acid Resistant DWV Pipe <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0004	LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	17.11	5.26
	For Schedule 80, Add	4.77	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	4.09	
	For Work In Restricted Working Space, Add	2.38	
22 66 53 00-0005	LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	21.33	5.91
	For Schedule 80, Add	6.45	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	5.52	
	For Work In Restricted Working Space, Add	2.68	
22 66 53 00-0006	LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	35.33	8.59
	For Schedule 80, Add	11.65	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	9.97	
	For Work In Restricted Working Space, Add	3.88	
22 66 53 00-0007	LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	48.60	11.18
	For Schedule 80, Add	16.54	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	14.16	
	For Work In Restricted Working Space, Add	5.04	
22 66 53 00-0008	LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	81.96	16.44
	For Schedule 80, Add	29.82	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	25.52	
	For Work In Restricted Working Space, Add	7.39	
22 66 53 00-0009	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0010	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	66.80	19.86
	For Work In Restricted Working Space, Add	8.94	
22 66 53 00-0011	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	85.27	26.22
	For Work In Restricted Working Space, Add	11.79	
22 66 53 00-0012	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	123.09	30.02
	For Work In Restricted Working Space, Add	13.52	
22 66 53 00-0013	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	183.81	39.71
	For Work In Restricted Working Space, Add	17.87	
22 66 53 00-0014	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	393.26	58.64
	For Work In Restricted Working Space, Add	26.39	
22 66 53 00-0015	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0016	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	66.17	19.86
	For Work In Restricted Working Space, Add	8.94	
22 66 53 00-0017	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	83.60	26.22
	For Work In Restricted Working Space, Add	11.79	
22 66 53 00-0018	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	126.28	30.02
	For Work In Restricted Working Space, Add	13.52	
22 66 53 00-0019	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	151.70	39.71
	For Work In Restricted Working Space, Add	17.87	
22 66 53 00-0020	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	343.50	58.64
	For Work In Restricted Working Space, Add	26.39	
22 66 53 00-0021	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0022	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	109.66	42.48
	For Work In Restricted Working Space, Add	19.11	
22 66 53 00-0023	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	135.38	53.56
	For Work In Restricted Working Space, Add	24.09	
22 66 53 00-0024	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	198.13	58.64
	For Work In Restricted Working Space, Add	26.39	
22 66 53 00-0025	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	280.44	77.02
	For Work In Restricted Working Space, Add	34.64	
22 66 53 00-0026	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	512.83	123.20
	For Work In Restricted Working Space, Add	55.41	
22 66 53 00-0027	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0028	EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	135.31	53.56
	For Work In Restricted Working Space, Add	24.09	
22 66 53 00-0029	EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	190.44	58.64
	For Work In Restricted Working Space, Add	26.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	183.60 26.39	58.64
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	262.90 34.64	77.02
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	269.52 34.64	77.02
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	464.00 55.41	123.20
<b>22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small></b>		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	132.10 19.11	42.48
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	140.81 24.09	53.56
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	214.74 26.39	58.64
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	288.10 34.64	77.02
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	418.14 55.41	123.20
<b>22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small></b>		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	122.26 19.11	42.48
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	147.05 24.09	53.56
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	205.08 26.39	58.64
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	286.20 34.64	77.02
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	618.18 55.41	123.20
<b>22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small></b>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	162.47 24.09	53.56
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	197.17 26.39	58.64
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	197.17 26.39	58.64
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	279.37 34.64	77.02
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	279.37 34.64	77.02
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	527.43 55.41	123.20
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	532.75 55.41	123.20
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	466.23 55.41	123.20
<b>22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small></b>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	151.68 23.89	53.10
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	186.72 30.12	66.95
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	282.66 32.98	73.33
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	402.94 43.29	96.23
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	745.26 69.26	153.95
<b>22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends <small>(22 66 53 00-0002)</small></b>		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	105.55 19.11	42.48
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	141.47 24.09	53.56
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	166.21 26.39	58.64
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	237.15 34.64	77.02
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	123.27 24.09	53.56

**22 Plumbing**

**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities**

**22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....158.89		58.64
<i>For Work In Restricted Working Space, Add</i>	26.39	
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....161.83		58.64
<i>For Work In Restricted Working Space, Add</i>	26.39	
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....226.26		77.02
<i>For Work In Restricted Working Space, Add</i>	34.64	
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....228.12		77.02
<i>For Work In Restricted Working Space, Add</i>	34.64	
<b>22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)</b>		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....126.39		49.32
<i>For Work In Restricted Working Space, Add</i>	22.16	
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....169.45		64.83
<i>For Work In Restricted Working Space, Add</i>	29.16	
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....274.03		88.02
<i>For Work In Restricted Working Space, Add</i>	39.58	
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....406.70		112.03
<i>For Work In Restricted Working Space, Add</i>	50.37	
<b>22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)</b>		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....65.06		19.86
<i>For Work In Restricted Working Space, Add</i>	8.94	
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....76.05		26.22
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....90.54		30.02
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....125.13		39.71
<i>For Work In Restricted Working Space, Add</i>	17.87	
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....186.13		58.64
<i>For Work In Restricted Working Space, Add</i>	26.39	
<b>22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)</b>		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....60.63		19.86
<i>For Work In Restricted Working Space, Add</i>	8.94	
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....79.40		26.22
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....96.67		30.02
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....131.15		39.71
<i>For Work In Restricted Working Space, Add</i>	17.87	
<b>22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)</b>		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....55.13		19.86
<i>For Work In Restricted Working Space, Add</i>	8.94	
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....69.51		26.22
<i>For Work In Restricted Working Space, Add</i>	11.79	
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....81.73		30.02
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....108.07		39.71
<i>For Work In Restricted Working Space, Add</i>	17.87	
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....158.44		58.64
<i>For Work In Restricted Working Space, Add</i>	26.39	
<b>22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)</b>		
Note: Acid resistant. ASTM A518.		
<b>22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)</b>		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....87.08		8.22
22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....122.45		10.25
22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....166.44		11.82
22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....272.89		16.54
22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....480.98		22.17
22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....849.76		27.96
22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....1,514.33		37.66
22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....2,695.39		43.18
<b>22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)</b>		
<b>22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)</b>		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....351.02		70.00
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....457.70		77.02
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....740.72		92.17





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	1,100.06	109.27
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	2,522.26	178.15
<b>22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)</b>		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	206.77	70.00
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	268.19	77.02
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	336.24	92.17
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	876.61	109.27
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	1,983.99	178.15
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	3,009.57	221.96
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	4,415.28	266.92
<b>22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)</b>		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	206.77	70.00
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	268.19	77.02
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	336.24	92.17
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	644.67	109.27
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	1,684.18	178.15
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	2,458.44	221.96
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	3,482.30	266.92
<b>22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)</b>		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend .....	206.77	70.00
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend .....	268.19	77.02
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend .....	336.02	92.08
<b>22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)</b>		
22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep .....	280.31	70.00
22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep .....	491.64	77.02
22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep .....	551.21	92.17
<b>22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)</b>		
22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	292.83	104.72
22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	366.39	116.09
22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	507.68	138.62
22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	840.17	164.21
22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	2,553.48	267.45
22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee .....	3,621.85	333.96
<b>22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)</b>		
22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	274.99	100.39
22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	320.02	107.77
22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	356.77	111.56
22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	408.15	123.20
22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	436.68	127.07
22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	478.98	130.87
22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	595.36	142.09
22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	659.79	145.75
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee .....	737.71	152.46
<b>22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)</b>		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee .....	332.38	104.72
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee .....	399.88	115.81
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee .....	544.41	138.62
<b>22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)</b>		
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee .....	314.56	100.39
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee .....	391.48	112.12
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee .....	471.15	127.45
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee .....	505.02	131.23
<b>22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)</b>		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye .....	290.19	104.91
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye .....	397.50	116.09
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye .....	507.51	138.53
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye .....	844.88	163.60

**22 Plumbing****22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye .....	3,192.31	267.19
<b>22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	297.59	100.39
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	319.97	107.77
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	337.94	112.21
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	377.04	123.20
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	391.63	127.26
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	468.25	131.23
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	626.27	142.27
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	741.81	145.75
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	774.48	152.46
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	1,881.69	215.55
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	2,030.96	222.67
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	2,480.72	234.07
<b>22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	343.64	104.72
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	408.36	115.81
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	600.98	138.62
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	918.73	163.77
<b>22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	286.28	100.39
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	331.28	107.77
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	366.02	112.12
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	396.84	123.20
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	457.01	127.45
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	516.28	131.14
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	662.98	142.27
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	823.90	145.83
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	902.13	152.71
<b>22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	178.04	65.94
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	194.87	69.64
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	217.38	73.33
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	345.35	81.27
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	362.22	85.06
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	391.27	91.16
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	506.36	98.13
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	734.88	133.64
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	782.98	144.94
<b>22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	474.13	153.95
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	621.21	153.95
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	634.41	153.95
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	714.87	203.30
<b>22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	517.90	70.00
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	624.58	77.02
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	760.52	92.17
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	2,225.80	109.27
<b>22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs</b> <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	260.51	70.00
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	327.59	77.02
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	449.38	92.17
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	576.32	109.27
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	1,116.76	152.46





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 66 53 00-0220</b>	<b>Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0093)</small>	
	Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.	
22 66 53 00-0221 LB	Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	5.18
22 66 53 00-0222 LB	Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings .....	51.86
<b>22 66 53 00-0223</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 66 53)</small>	
	Note: ASTM A518.	
<b>22 66 53 00-0224</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe</b> <small>(22 66 53 00-0223)</small>	
22 66 53 00-0225 LF	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	69.05
22 66 53 00-0226 LF	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	78.57
22 66 53 00-0227 LF	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	108.31
22 66 53 00-0228 LF	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	136.53
<b>22 66 53 00-0229</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings</b> <small>(22 66 53 00-0223)</small>	
<b>22 66 53 00-0230</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0231 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	257.40
22 66 53 00-0232 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	278.29
22 66 53 00-0233 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	380.13
22 66 53 00-0234 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	458.73
<b>22 66 53 00-0235</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0236 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	147.09
22 66 53 00-0237 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	175.59
22 66 53 00-0238 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	224.88
22 66 53 00-0239 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	293.84
22 66 53 00-0240 EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	171.02
<b>22 66 53 00-0241</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0242 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	147.09
22 66 53 00-0243 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	175.59
22 66 53 00-0244 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	224.88
22 66 53 00-0245 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	293.84
<b>22 66 53 00-0246</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0247 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	172.55
22 66 53 00-0248 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	215.19
22 66 53 00-0249 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	329.53
22 66 53 00-0250 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	370.21
<b>22 66 53 00-0251</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0252 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	166.89
22 66 53 00-0253 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	198.22
22 66 53 00-0254 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	304.08
22 66 53 00-0255 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	344.75
<b>22 66 53 00-0256</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0257 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	252.06
<b>22 66 53 00-0258</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0259 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....	206.81
22 66 53 00-0260 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	254.72
22 66 53 00-0261 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	334.04
22 66 53 00-0262 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	502.82
<b>22 66 53 00-0263</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0264 EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	238.72
22 66 53 00-0265 EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	290.50

**22 Plumbing****22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee .....	309.21	89.30
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	331.53	98.54
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	364.07	101.31
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	394.12	104.36
<b>22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0229)</b>		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye .....	207.17	74.06
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye .....	243.41	83.12
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye .....	322.72	92.63
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye .....	502.82	110.92
<b>22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0229)</b>		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	230.85	80.44
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	281.99	86.16
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	295.47	89.58
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	331.99	98.82
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	364.90	101.87
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	386.02	104.63
<b>22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0229)</b>		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	309.10	98.64
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	392.64	111.01
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	500.91	122.83
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	651.34	147.67
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	340.50	104.45
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	380.83	110.64
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	452.27	116.73
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	499.27	129.30
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	599.61	135.85
<b>22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses (22 66 53 00-0229)</b>		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	342.99	98.64
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	403.74	110.82
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	575.49	123.47
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	801.48	147.86
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	368.74	104.45
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	479.79	110.64
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	505.94	116.73
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	541.64	129.21
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	686.57	135.29
<b>22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0229)</b>		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	229.07	73.51
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	266.03	83.12
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	322.72	92.63
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	533.93	110.92
<b>22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0229)</b>		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	252.94	80.07
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	282.36	86.45
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	306.79	89.58
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	414.02	98.82
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	424.30	101.87
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	473.70	104.63
<b>22 66 53 00-0314 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0229)</b>		
22 66 53 00-0315 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend .....	362.58	98.45
22 66 53 00-0316 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend .....	454.57	110.73
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend .....	651.20	123.11
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend .....	782.15	148.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 66 53 00-0319</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0320 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	394.19	104.45
22 66 53 00-0321 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	471.28	110.55
22 66 53 00-0322 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	491.80	116.73
22 66 53 00-0323 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	547.30	129.21
22 66 53 00-0324 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	686.57	135.29
<b>22 66 53 00-0325</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0326 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	171.80	52.37
22 66 53 00-0327 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	193.39	55.41
22 66 53 00-0328 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	227.04	64.65
22 66 53 00-0329 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	267.45	61.42
22 66 53 00-0330 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	283.36	64.46
22 66 53 00-0331 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	299.27	67.51
<b>22 66 53 00-0332</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0333 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	157.98	43.13
22 66 53 00-0334 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	183.43	48.77
22 66 53 00-0335 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	215.68	55.22
22 66 53 00-0336 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	389.34	67.23
<b>22 66 53 00-0337</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0338 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	70.72	24.56
22 66 53 00-0339 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	83.56	27.43
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	91.23	30.66
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	117.23	36.66
<b>22 66 53 00-0342</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	285.26	48.77
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	294.39	54.86
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	363.48	61.32
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	463.55	73.33
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	395.37	52.46
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	543.21	58.55
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	656.93	64.65
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	816.90	77.02
<b>22 66 53 00-0351</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap .....	527.52	55.69
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap .....	830.60	61.60
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap .....	549.82	55.41
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap .....	830.60	61.60
<b>22 66 53 00-0356</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap .....	490.42	55.41
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap .....	576.03	61.60
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap .....	566.79	55.41
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap .....	1,240.73	61.60
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap .....	740.08	61.60
<b>22 66 53 00-0362</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend .....	206.82	49.32
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend .....	269.80	55.41
<b>22 66 53 00-0365</b>	<b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters</b> <small>(22 66 53 00-0229)</small>	
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	106.32	36.94
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	192.97	40.08

**22 Plumbing****22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	142.81	46.18
<b>22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter</b> <small>(22 66 53 00-0229)</small>		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	197.63	52.55
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	216.02	55.41
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	240.43	58.46
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	257.90	64.46
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	240.47	58.55
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	253.52	61.60
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	273.82	67.51
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	309.11	64.65
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter.....	381.33	77.02
<b>22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0229)</small>		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	67.88	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	79.20	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	84.85	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	93.34	
<b>22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings</b> <small>(22 66 53 00-0229)</small>		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet .....	503.64	24.65
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper .....	191.01	12.28
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	355.06	12.28
<b>22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates</b> <small>(22 66 53 00-0229)</small>		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	1,808.26	123.20
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	2,230.44	129.39
22 66 53 00-0391 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain .....	1,494.94	12.28

**END OF SECTION 22**



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels.

### 26 01 Operation and Maintenance of Electrical Systems <sup>(26)</sup>

#### 26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution <sup>(26 01)</sup>

##### 26 01 10 91 Medium-Voltage Electrical Distribution Restoration <sup>(26 01 10)</sup>

26 01 10 91-0001	<b>Retrofit Distribution Enclosures <sup>(26 01 10 91)</sup></b> Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C).....	332.49	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	67.54	
	For >20 To 50, Add	54.03	
	For >50 To 100, Add	27.01	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C).....	429.31	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	91.74	
	For >20 To 50, Add	73.39	
	For >50 To 100, Add	36.70	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C).....	642.33	
	Note: 4mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	145.00	
	For >20 To 50, Add	116.00	
	For >50 To 100, Add	58.00	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO).....	329.73	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	66.85	
	For >20 To 50, Add	53.48	
	For >50 To 100, Add	26.74	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) .....	331.43	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	67.27	
	For >20 To 50, Add	53.82	
	For >50 To 100, Add	26.91	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) .....	421.43	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	89.77	
	For >20 To 50, Add	71.82	
	For >50 To 100, Add	35.91	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) .....	624.82	
	Note: 4mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	140.62	
	For >20 To 50, Add	112.49	
	For >50 To 100, Add	56.25	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric V PFR).....	262.78	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	50.11	
	For >20 To 50, Add	40.09	
	For >50 To 100, Add	20.04	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric V PFR).....	367.35	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	76.25	
	For >20 To 50, Add	61.00	
	For >50 To 100, Add	30.50	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric V PFR).....	519.84	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	114.37	
	For >20 To 50, Add	91.50	
	For >50 To 100, Add	45.75	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	474.60	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	103.06	
	For >20 To 50, Add	82.45	
	For >50 To 100, Add	41.23	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	649.55	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	146.80	
	For >20 To 50, Add	117.44	
	For >50 To 100, Add	58.72	



**26 Electrical**

**26 01 Operation and Maintenance of Electrical Systems**

**26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) ..... Note: 4mm thick, aluminum frame, magnetic cover.	1,183.91	
			<i>For Up To 20, Add</i>	280.39	
			<i>For &gt;20 To 50, Add</i>	224.31	
			<i>For &gt;50 To 100, Add</i>	112.16	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) ..... Note: 4mm thick, aluminum frame, magnetic cover.	544.13	
			<i>For Up To 20, Add</i>	120.45	
			<i>For &gt;20 To 50, Add</i>	96.36	
			<i>For &gt;50 To 100, Add</i>	48.18	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) ..... Note: 4mm thick, aluminum frame, magnetic cover.	797.45	
			<i>For Up To 20, Add</i>	183.78	
			<i>For &gt;20 To 50, Add</i>	147.02	
			<i>For &gt;50 To 100, Add</i>	73.51	

**26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution** (26 01)

**26 01 20 91 Low-Voltage Electrical Distribution Restoration** (26 01 20)

26 01 20 91-0001	EA	Lock Out/Tag Out Devices <small>(26 01 20 91)</small> Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect.....	25.47
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter .....	25.47
26 01 20 91-0004	EA	Lock Out/Tag Out Tags.....	4.38
26 01 20 91-0005	EA	Existing Circuit Tracing <small>(26 01 20 91)</small>	
26 01 20 91-0006	EA	Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device .....	21.20
26 01 20 91-0007	EA	Lighting, Existing Circuit Tracing Per Circuit .....	21.20

**26 01 30 Operation And Maintenance Of Facility Electrical Power Generating And Storing Equipment** (26 01)

**26 01 30 91 Facility Electrical Power Generating And Storing Equipment Restoration** (26 01 30)

26 01 30 91-0001	EA	Emergency Generator Permits <small>(26 01 30 91)</small>	
26 01 30 91-0002	EA	Air Pollution Control Board <small>(26 01 30 91-0001)</small>	
26 01 30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator.....	2,812.40

**26 01 50 Operation and Maintenance of Lighting** (26 01)

**26 01 50 51 Luminaire Relamping** (26 01 50)

26 01 50 51-0001	EA	Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small> Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.	
26 01 50 51-0002	EA	Halogen Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0003	EA	300 Watt, T3, Tungsten Halogen Lamp .....	37.50
26 01 50 51-0004	EA	500 Watt, T3, Tungsten Halogen Lamp .....	47.66
26 01 50 51-0005	EA	1,000 Watt, T3, Tungsten Halogen Lamp .....	70.19
26 01 50 51-0006	EA	90 Watt, PAR38, Halogen Lamp .....	19.02
26 01 50 51-0007	EA	100 Watt, PAR38, Halogen Lamp .....	19.02
26 01 50 51-0008	EA	60 Watt, PAR38, Halogen IR Reflective Lamp .....	21.47
26 01 50 51-0009	EA	67 Watt, PAR38, Halogen IR Reflective Lamp .....	22.99
26 01 50 51-0010	EA	70 Watt, PAR38, Halogen IR Reflective Lamp .....	22.59
26 01 50 51-0011	EA	90 Watt, PAR38, Halogen IR Reflective Lamp .....	23.75
26 01 50 51-0012	EA	100 Watt, PAR38, Halogen IR Reflective Lamp..... <small>(Soraa MR16-65-B01-12-830-10)</small>	24.00
26 01 50 51-0013	EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20) .....	25.51
26 01 50 51-0014	EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20) .....	25.51
26 01 50 51-0015	EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25) .....	28.50
26 01 50 51-0016	EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36) .....	28.50
26 01 50 51-0017	EA	Incandescent Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0018	EA	100 Watt, Frosted, Interior Incandescent Lamp .....	5.66
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68
26 01 50 51-0019	EA	150 Watt, Frosted, Interior Incandescent Lamp .....	6.80
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68
26 01 50 51-0020	EA	200 Watt, Frosted, Interior Incandescent Lamp .....	8.09
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0021 EA 300 Watt, PS25, Interior Incandescent Lamp.....	9.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0022 EA 60 Watt, G25, Clear, Interior Incandescent Lamp .....	7.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0023 EA 75 Watt, R20, Interior Incandescent Lamp.....	11.53	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.02	
26 01 50 51-0024 EA 75 Watt, PAR38, Exterior Incandescent Lamp.....	13.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.02	
26 01 50 51-0025 EA 100 Watt, PAR38, Exterior Incandescent Lamp.....	12.90	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.02	
26 01 50 51-0026 EA 150 Watt, PAR38, Exterior Incandescent Lamp.....	21.50	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.02	
26 01 50 51-0027 EA 250 Watt, PAR38, Exterior Incandescent Lamp.....	43.37	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.35	
26 01 50 51-0028 EA 300 Watt, PAR56, Exterior Incandescent Lamp.....	49.68	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.35	
<b>26 01 50 51-0029 Exit Light Lamps</b> <small>(26 01 50 51-0001)</small>		
26 01 50 51-0030 EA Convert Exit Light Lamps To Red LED Lamps.....	92.66	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0031 EA Fluorescent Lamp For Exit Light .....	26.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-6.72	
26 01 50 51-0032 EA Lamp Replacement For Emergency Lights On Exit Sign .....	30.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.36	
<b>26 01 50 51-0033 Fluorescent Lamps</b> <small>(26 01 50 51-0001)</small>		
26 01 50 51-0034 EA 18", 15 Watt, T8 Fluorescent Lamp.....	9.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0035 EA 2", 17 Watt, T8 Fluorescent Lamp .....	11.43	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0036 EA 3', 25 Watt, T8 Fluorescent Lamp .....	13.08	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0037 EA 4', 32 Watt, T8 Fluorescent Lamp .....	12.32	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0038 EA 4', 30 Watt, T8 Fluorescent Lamp .....	15.70	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0039 EA 4', 28 Watt, T8 Fluorescent Lamp .....	14.10	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0040 EA 4', 25 Watt, T8 Fluorescent Lamp .....	14.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0041 EA 4', 44 Watt, T8HO Fluorescent Lamp.....	20.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0042 EA 8', 59 Watt, T8 Fluorescent Lamp .....	16.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0043 EA 18", 15 Watt, T12 Fluorescent Lamp.....	13.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0044 EA 2', 20 Watt, T12 Fluorescent Lamp .....	11.00	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0045 EA 3', 30 Watt, T12 Fluorescent Lamp .....	12.35	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0046 EA 4', 34 Watt, T12 Fluorescent Lamp .....	12.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0047 EA 4', 40 Watt, T12 Fluorescent Lamp .....	12.20	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0048 EA 8', 60 Watt, T12 Fluorescent Lamp .....	16.95	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0049 EA 8', 75 Watt, T12 Fluorescent Lamp .....	14.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0050 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	20.68	
26 01 50 51-0051 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	13.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0052 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	11.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0053 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	11.53	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0054 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	12.51	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0055 EA 6", 4 Watt, T5 Fluorescent Lamp.....	10.73	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0056 EA 9", 6 Watt, T5 Fluorescent Lamp.....	10.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0057 EA 12", 8 Watt, T5 Fluorescent Lamp.....	10.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0058 EA 21", 13 Watt, T5 Fluorescent Lamp.....	11.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0059 EA 24", 14 Watt, T5 Fluorescent Lamp.....	12.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.69	
26 01 50 51-0060 EA 34", 21 Watt, T5 Fluorescent Lamp.....	13.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	
26 01 50 51-0061 EA 46", 28 Watt, T5 Fluorescent Lamp.....	13.44	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.03	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0062 EA 46", 54 Watt T5HO Fluorescent Lamp .....	14.45	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-3.03	
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp .....	13.67	
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp .....	19.70	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-3.36	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp .....	19.10	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-3.36	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....	16.49	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-1.68	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....	8.10	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-1.68	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....	8.79	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-1.68	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....	21.94	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....	21.94	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp .....	38.34	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....	14.86	
26 01 50 51-0073 EA <9 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	7.76	
26 01 50 51-0074 EA 9-27 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	6.99	
26 01 50 51-0075 EA 29-32 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	6.99	
26 01 50 51-0076 EA 33-42 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	23.13	
26 01 50 51-0077 EA 43-65 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	25.04	
26 01 50 51-0078 EA 85 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	45.75	
26 01 50 51-0079 EA 105 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	54.38	
26 01 50 51-0080 EA 200 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	56.13	
26 01 50 51-0081 EA 11 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	22.13	
26 01 50 51-0082 EA 15 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	22.98	
26 01 50 51-0083 EA 20-28 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	26.14	
<b>26 01 50 51-0084 Metal Halide Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp .....	33.97	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp .....	32.73	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp .....	36.67	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp .....	35.77	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp .....	35.51	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp .....	35.69	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp .....	41.97	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....	47.99	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....	47.73	
<b>26 01 50 51-0094 High Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp .....	28.89	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp .....	28.89	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp .....	29.43	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp .....	30.45	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp .....	29.43	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp .....	29.43	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp .....	27.91	
<i>For Enclosed And Gasket Light Fixtures, Add</i> .....	2.59	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp .....	59.07	
<b>26 01 50 51-0103 Low Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp .....	65.82	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp .....	72.87	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp .....	74.46	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp .....	76.05	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp .....	82.40	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp .....	110.99	
<b>26 01 50 51-0110 LED Lamps (26 01 50 51-0001)</b>		
<b>26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0110)</b>		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....	10.37	
<b>26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0110)</b>		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	12.91	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	12.91	
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	19.74	
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	14.64	
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	24.01	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 01 50 51-0119</b>				<b>LED Lamps, Medium Base, BR30 Or BR40</b> <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	17.86	
				26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	16.42	
				26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	20.25	
				26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.70	
				26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	21.96	
				26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.70	
<b>26 01 50 51-0126</b>				<b>LED Lamps, Medium Base, PAR</b> <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	19.23	
				26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	24.53	
				26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	24.53	
				26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	23.67	
				26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	22.82	
				26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	22.82	
				26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	40.06	
				26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	24.53	
				26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	23.67	
				26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	24.53	
				26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	24.53	
<b>26 01 50 51-0138</b>				<b>LED Lamps, GU Base, MR16</b> <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	14.71	
				26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	17.86	
				26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	19.23	
<b>26 01 50 51-0142</b>				<b>LED Lamps, PL Series</b> <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	19.19	
				26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DIRec Series (Green Creative 9.5PLH/827/DIR).....	24.82	
				26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DIRec Series (Green Creative 9.5PLH/830/DIR).....	20.34	
				26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DIRec Series (Green Creative 9.5PLH/835/DIR).....	23.14	
				26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DIRec Series (Green Creative 9.5PLH/840/DIR).....	23.14	
				26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRec Series (Green Creative 10.5PLH/930/DIR).....	28.18	
				26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DIRec Series (Green Creative 5.5PLH/827/DIR).....	23.14	
				26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DIRec Series (Green Creative 5.5PLH/830/DIR).....	23.14	
				26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DIRec Series (Green Creative 5.5PLH/835/DIR).....	23.14	
				26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DIRec Series (Green Creative 5.5PLH/840/DIR).....	23.14	
				26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DIRec Series (Green Creative 10PLV/827/DIR).....	26.50	
				26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DIRec Series (Green Creative 10PLV/830/DIR).....	26.50	
				26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DIRec Series (Green Creative 10PLV/835/DIR).....	26.50	
				26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DIRec Series (Green Creative 10PLV/840/DIR).....	26.50	
				26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRec Series (Green Creative 11PLV/930/DIR).....	24.82	
				26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DIRec Series (Green Creative 6.5PLV/827/DIR).....	24.82	
				26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DIRec Series (Green Creative 6.5PLV/830/DIR).....	24.82	
				26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DIRec Series (Green Creative 6.5PLV/835/DIR).....	25.94	
				26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DIRec Series (Green Creative 6.5PLV/840/DIR).....	25.94	
				26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	26.19	
				26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	26.19	
				26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	26.19	
				26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	26.19	
				26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	27.06	
				26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	27.06	
				26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	27.06	
				26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	27.06	
				26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	27.06	
				26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	27.06	
				26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	27.06	
				26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	27.06	
				26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	35.80	
				26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	35.80	
				26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	35.80	
				26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	33.79	
				26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	33.79	
				26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	33.79	
				26 01 50 51-0180 EA 4 Pin, 6 Watt, 560 Lumens 4000K Horizontal Mount LED PL Lamp (Green Creative 57898).....	17.02	
<b>26 01 50 51-0181</b>				<b>HID LED Lamps, Medium Base E26</b> <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0182 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	72.41	
				26 01 50 51-0183 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	72.41	
				26 01 50 51-0184 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	93.11	
				26 01 50 51-0185 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	93.11	
				26 01 50 51-0186 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	58.84	
				26 01 50 51-0187 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	58.84	
				26 01 50 51-0188 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	58.84	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 01 50 51-0189	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	58.84	
26 01 50 51-0190	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	61.08	
26 01 50 51-0191	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	61.08	
26 01 50 51-0192	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	61.08	
26 01 50 51-0193	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	61.08	
26 01 50 51-0194	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	70.04	
26 01 50 51-0195	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	70.04	
26 01 50 51-0196	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	70.04	
26 01 50 51-0197	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	70.04	
26 01 50 51-0198	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	81.23	
26 01 50 51-0199	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	81.23	
26 01 50 51-0200	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	81.23	
26 01 50 51-0201	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	81.23	
26 01 50 51-0202	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	105.86	
26 01 50 51-0203	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	105.86	
26 01 50 51-0204	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	105.86	
26 01 50 51-0205	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	105.86	
26 01 50 51-0206	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	127.13	
26 01 50 51-0207	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	127.13	
26 01 50 51-0208	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	127.13	
26 01 50 51-0209	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	127.13	
26 01 50 51-0210	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	141.68	
26 01 50 51-0211	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	141.68	
26 01 50 51-0212	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	141.68	
26 01 50 51-0213	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	141.68	
26 01 50 51-0214	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	194.30	
26 01 50 51-0215	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	194.30	
26 01 50 51-0216	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	194.30	
26 01 50 51-0217	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	194.30	
26 01 50 51-0218	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	201.02	
26 01 50 51-0219	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	201.02	
26 01 50 51-0220	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	201.02	
26 01 50 51-0221	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	201.02	
26 01 50 51-0222	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	240.20	
26 01 50 51-0223	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	240.20	
26 01 50 51-0224	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	240.20	
26 01 50 51-0225	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	240.20	
26 01 50 51-0226	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	287.22	
26 01 50 51-0227	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	287.22	
26 01 50 51-0228	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	287.22	
26 01 50 51-0229	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	287.22	
26 01 50 51-0230	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	98.67	
26 01 50 51-0231	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	98.67	
26 01 50 51-0232	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	98.67	
26 01 50 51-0233	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	98.67	
26 01 50 51-0234	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	115.47	
26 01 50 51-0235	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	105.39	
26 01 50 51-0236	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	127.78	
26 01 50 51-0237	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	126.46	
26 01 50 51-0238	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	129.46	
26 01 50 51-0239	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	129.46	
26 01 50 51-0240	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	76.32	
26 01 50 51-0241	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	76.32	
26 01 50 51-0242	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	86.67	
26 01 50 51-0243	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	86.67	
26 01 50 51-0244	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	93.56	
26 01 50 51-0245	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	93.56	
26 01 50 51-0246	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	103.90	
26 01 50 51-0247	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	103.90	
26 01 50 51-0248	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	104.44	
26 01 50 51-0249	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	113.62	
26 01 50 51-0250	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	142.61	
26 01 50 51-0251	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	157.62	
26 01 50 51-0252	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	58.76	
26 01 50 51-0253	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	66.82	
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	70.85	
26 01 50 51-0255	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	78.36	
26 01 50 51-0256	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	95.28	
26 01 50 51-0257	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	112.51	
26 01 50 51-0258	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	155.57	
26 01 50 51-0259	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	164.18	
26 01 50 51-0260	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	177.96	
26 01 50 51-0261	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	186.57	
26 01 50 51-0262	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	270.97	
26 01 50 51-0263	EA	20 Watts, 5000K CCT, 120-277 Volts, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-10D-20W-E26-50K)	64.89	

**26 01 50 51-0264 HID LED Lamps, Mogul Base E39 Or EX39** (26 01 50 51-0110)

26 01 50 51-0265	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	257.12	
26 01 50 51-0266	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	257.12	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0267	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39).....	257.12	
26 01 50 51-0268	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	72.41	
26 01 50 51-0269	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	72.41	
26 01 50 51-0270	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	72.41	
26 01 50 51-0271	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	93.11	
26 01 50 51-0272	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	93.11	
26 01 50 51-0273	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	93.11	
26 01 50 51-0274	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	177.07	
26 01 50 51-0275	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	194.30	
26 01 50 51-0276	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	194.30	
26 01 50 51-0277	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	194.30	
26 01 50 51-0278	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	194.30	
26 01 50 51-0279	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	201.02	
26 01 50 51-0280	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	201.02	
26 01 50 51-0281	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	201.02	
26 01 50 51-0282	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	201.02	
26 01 50 51-0283	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	240.20	
26 01 50 51-0284	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	240.20	
26 01 50 51-0285	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	240.20	
26 01 50 51-0286	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	240.20	
26 01 50 51-0287	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	287.22	
26 01 50 51-0288	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	287.22	
26 01 50 51-0289	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	287.22	
26 01 50 51-0290	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	287.22	
26 01 50 51-0291	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	98.67	
26 01 50 51-0292	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	98.67	
26 01 50 51-0293	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	115.47	
26 01 50 51-0294	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	113.92	
26 01 50 51-0295	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	127.78	
26 01 50 51-0296	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	126.46	
26 01 50 51-0297	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	129.46	
26 01 50 51-0298	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	125.56	
26 01 50 51-0299	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	277.79	
26 01 50 51-0300	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	98.64	
26 01 50 51-0301	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	98.64	
26 01 50 51-0302	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	112.57	
26 01 50 51-0303	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	112.57	
26 01 50 51-0304	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	120.94	
26 01 50 51-0305	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	120.94	
26 01 50 51-0306	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	76.18	
26 01 50 51-0307	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	76.18	
26 01 50 51-0308	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	86.67	
26 01 50 51-0309	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	86.67	
26 01 50 51-0310	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	93.56	
26 01 50 51-0311	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	93.56	
26 01 50 51-0312	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	103.90	
26 01 50 51-0313	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	103.90	
26 01 50 51-0314	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	191.09	
26 01 50 51-0315	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	221.76	
26 01 50 51-0316	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	265.42	
26 01 50 51-0317	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	522.53	
26 01 50 51-0318	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	493.16	
26 01 50 51-0319	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	522.53	
26 01 50 51-0320	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	524.81	
26 01 50 51-0321	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	75.67	
26 01 50 51-0322	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	75.67	
26 01 50 51-0323	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	75.67	
26 01 50 51-0324	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	228.89	
26 01 50 51-0325	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	239.52	
26 01 50 51-0326	EA			40 Watts, 120-277 Volts, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	178.30	
26 01 50 51-0327	EA			100 Watts, 480 Volts, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	210.72	
26 01 50 51-0328	EA			45 Watts, 120-277 Volts, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	90.82	
26 01 50 51-0329	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	169.22	
26 01 50 51-0330				<b>LED Lamps, 2G11 Base</b> <small>(26 01 50 51-0110)</small>		
26 01 50 51-0331	EA			19 Watt, 1550 Lumens, 3500K, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	29.50	
26 01 50 51-0332				<b>LED Lamps, GX23 Base</b> <small>(26 01 50 51-0110)</small>		
26 01 50 51-0333	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	15.47	
26 01 50 51-0334				<b>LED Lamps, G24 Base</b> <small>(26 01 50 51-0110)</small>		
26 01 50 51-0335	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	19.53	
26 01 50 51-0336				<b>LED Tubes (Fluorescent Lamp Replacement)</b> <small>(26 01 50 51-0110)</small>		

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0337 EA 2', 1,250 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K) .....	26.73	
For Multiple Lamps In Fixture, Deduct .....	-2.69	
26 01 50 51-0338 EA 2', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K) .....	34.04	
For Multiple Lamps In Fixture, Deduct .....	-2.69	
26 01 50 51-0339 EA 3', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K) .....	28.77	
For Multiple Lamps In Fixture, Deduct .....	-2.86	
26 01 50 51-0340 EA 4', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K) .....	31.41	
For Multiple Lamps In Fixture, Deduct .....	-3.03	
26 01 50 51-0341 EA 4', 2,200 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K) .....	34.15	
For Multiple Lamps In Fixture, Deduct .....	-3.03	
26 01 50 51-0342 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN) .....	22.50	
For Multiple Lamps In Fixture, Deduct .....	-3.03	
26 01 50 51-0343 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN) .....	21.48	
For Multiple Lamps In Fixture, Deduct .....	-2.69	
26 01 50 51-0344 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF) .....	19.78	
For Multiple Lamps In Fixture, Deduct .....	-2.69	
26 01 50 51-0345 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF) .....	20.24	
For Multiple Lamps In Fixture, Deduct .....	-2.86	
26 01 50 51-0346 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF) .....	20.39	
For Multiple Lamps In Fixture, Deduct .....	-3.03	
26 01 50 51-0347 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF) .....	21.04	
For Multiple Lamps In Fixture, Deduct .....	-3.03	
<b>26 01 50 51-0348 Filament LED Lamps</b> (26 01 50 51-0110)		
26 01 50 51-0349 EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827 ) .....	21.77	
26 01 50 51-0350 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R ) .....	21.77	
26 01 50 51-0351 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827) .....	20.65	
26 01 50 51-0352 EA 4.5 Watt, 2700K CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A) .....	20.65	
26 01 50 51-0353 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827) .....	22.44	
26 01 50 51-0354 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A) .....	22.44	
26 01 50 51-0355 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827) .....	18.41	
26 01 50 51-0356 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26) .....	18.41	
26 01 50 51-0357 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A) .....	19.09	
26 01 50 51-0358 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A) .....	24.01	
26 01 50 51-0359 EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521) .....	15.05	
<b>26 01 50 51-0360 Other Lamps</b> (26 01 50 51-0110)		
26 01 50 51-0361 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1) .....	20.47	
26 01 50 51-0362 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM) .....	20.47	
26 01 50 51-0363 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM) .....	20.47	
26 01 50 51-0364 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1) .....	21.59	
26 01 50 51-0365 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1) .....	21.59	
26 01 50 51-0366 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1) .....	21.59	
<b>26 01 50 51-0367 LED Lamps, Light Engines, Round, LER Series</b> (26 01 50 51-0110)		
26 01 50 51-0368 EA 5.5" Diameter, 17 Watt, 3000K Round LED Light Engine (Maxlite LER5.5A1730) .....	36.79	
26 01 50 51-0369 EA 9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U) .....	23.28	
<b>26 01 50 51-0370 Recycle Hazardous Lamps</b> (26 01 50 51)		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift, 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0371 EA Recycle 2' Length Linear Fluorescent Lamps .....	0.27	
26 01 50 51-0372 EA Recycle 3' Length Linear Fluorescent Lamps .....	0.40	
26 01 50 51-0373 EA Recycle 4' Length Linear Fluorescent Lamps .....	0.54	
26 01 50 51-0374 EA Recycle 6' Length Linear Fluorescent Lamps .....	0.81	
26 01 50 51-0375 EA Recycle 8' Length Linear Fluorescent Lamps .....	1.08	
26 01 50 51-0376 EA Recycle Compact Fluorescent Lamps .....	0.48	
26 01 50 51-0377 EA Recycle U-Shaped Or Circular Fluorescent Lamps .....	0.48	
26 01 50 51-0378 EA Recycle High Intensity Discharge (HID) Lamps .....	1.68	
<b>26 01 50 52 Ballasts Replacement</b> (26 01 50)		
26 01 50 52-0001 High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0002 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0003 Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0004 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0005 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	110.00	25.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	10.70	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	112.41	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	112.41	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	105.56	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	105.56	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	151.43	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	151.43	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	191.84	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	212.45	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
<b>26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0003)</small>		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	100.50	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	105.87	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	103.55	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	119.71	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	117.40	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	132.40	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	132.40	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	157.33	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	157.33	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	244.84	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	244.84	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
<b>26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0003)</small>		
26 01 50 52-0027 EA Single Mounting Bracket For Core And Coil Type.....	14.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.06	
26 01 50 52-0028 EA Double Mounting Bracket For Core And Coil Type.....	23.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.58	
<b>26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0002)</small>		
<b>26 01 50 52-0030 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0029)</small>		
26 01 50 52-0031 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	136.48	25.47
<i>For Pulse Start Ballast, Add</i>	10.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0032 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	143.15	25.47
<i>For Pulse Start Ballast, Add</i>	10.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0033 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	131.43	25.47
<i>For Pulse Start Ballast, Add</i>	9.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0034 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	150.69	25.47
<i>For Pulse Start Ballast, Add</i>	11.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0035 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	204.66	25.47
<i>For Pulse Start Ballast, Add</i>	16.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
<b>26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0029)</small>		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	161.75	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	172.15	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>		

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	261.42 10.70	25.47
<b>26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)</b>		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	396.45 10.70	25.47
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	440.77 10.70	25.47
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	425.43 10.70	25.47
<b>26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)</b>		
<b>26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)</b>		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	319.15 10.70	25.47
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	360.65 10.70	25.47
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	472.57 10.70	25.47
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	470.16 10.70	25.47
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	654.69 11.31	27.51
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	654.69 11.31	27.51
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	453.69 10.70	25.47
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	531.69 10.70	25.47
<b>26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)</b>		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	585.33 10.70	25.47
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	557.84 10.70	25.47
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	713.70 10.70	25.47
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	713.70 10.70	25.47
<b>26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)</b>		
<b>26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)</b>		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	357.18 10.70	25.47
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.88 10.70	25.47
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	382.15 10.70	25.47
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.71 10.70	25.47
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	630.49 11.31	27.51
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	772.19 11.31	27.51
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	588.55 10.70	25.47
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.89 10.70	25.47
<b>26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)</b>		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	457.69 10.70	25.47
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	492.62 10.70	25.47
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	729.83 10.70	25.47
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	629.61 10.70	25.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>26 01 50 52-0076</b>	<b>Electronic High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0001)</small>		
<b>26 01 50 52-0077</b>	<b>Electronic Low Frequency High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0076)</small>		
26 01 50 52-0078	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	149.76	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0079	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	149.76	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0080	EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	167.28	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0081	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	412.65	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0082	EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	412.65	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0083	EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	412.65	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0084	EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	412.65	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0085	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	412.65	25.47
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	

<b>26 01 50 52-0086</b>	<b>Owner Supplied Ballasts</b> <small>(26 01 50 52)</small>		
26 01 50 52-0087	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	20.37	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 01 50 52-0088	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	25.47	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.64	
26 01 50 52-0089	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	29.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.86	
26 01 50 52-0090	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	31.58	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.47	
26 01 50 52-0091	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	35.65	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 01 50 52-0092	EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	37.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.31	

<b>26 01 50 53</b>	<b>Lens and Accessory Replacement</b> <small>(26 01 50)</small>		
26 01 50 53-0001	EA Removal And Replacement Of Parabolic Aluminum Louver.....	108.70	
26 01 50 53-0002	EA Removal And Replacement Of Visor For Fixtures.....	203.79	
26 01 50 53-0003	EA Removal And Replacement Of Globe On Pole.....	260.99	
26 01 50 53-0004	EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	95.03	
26 01 50 53-0005	EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	30.35	
26 01 50 53-0006	EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	31.95	
26 01 50 53-0007	EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	38.90	
26 01 50 53-0008	EA Removal And Replacement Of Slide-On Lampholder.....	12.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0009	EA Removal And Replacement Of Screw Mount Lampholder.....	12.94	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0010	EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	15.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0011	EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	18.32	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0012	EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	20.44	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0013	EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in.....	14.74	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 01 50 53-0014	EA Removal And Replacement Of Exterior Light Globes.....	51.85	

## 26 05 Common Work Results For Electrical (26)

### 26 05 13 Medium-Voltage Cables (26 05)

#### 26 05 13 16 Medium-Voltage, Single-And Multi-Conductor Cables (26 05 13)

<b>26 05 13 16-0001</b>	<b>Wire And Cable</b> <small>(26 05 13 16)</small>		
	Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
<b>26 05 13 16-0002</b>	<b>5 KV Cable</b> <small>(26 05 13 16-0001)</small>		
<b>26 05 13 16-0003</b>	<b>Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct</b> <small>(26 05 13 16-0002)</small>		
26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	2,738.08	768.84
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,201.96	839.50
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,791.91	948.51
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,886.11	1,168.60
26 05 13 16-0008	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,556.83	1,315.94
26 05 13 16-0009	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,734.83	1,460.66

**26 Electrical****26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,579.13	1,641.20
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,929.37	1,825.92
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,437.71	2,180.09
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,056.37	2,562.65
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,011.68	3,020.36
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,971.82	3,477.86
<b>26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	2,641.98	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	2,929.13	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,246.51	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,971.17	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,273.44	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,269.76	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,662.71	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,735.95	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,454.74	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,203.46	
<b>26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)</b>		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,083.33	486.72
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,462.22	521.87
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,138.91	659.95
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,050.68	801.16
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,715.71	940.49
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,883.58	1,075.56
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,725.33	1,247.94
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,452.51	1,569.99
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,159.69	1,986.53
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,148.38	2,495.89
<b>26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)</b>		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,870.26	1,532.20
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,639.28	1,554.22
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,408.31	1,576.24
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,699.21	1,611.08
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,062.43	1,672.53
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,541.09	1,752.84
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,075.94	2,191.05
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,261.64	2,921.44
<b>26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)</b>		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	2,884.98	768.84
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,400.55	839.50
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,047.62	948.51
26 05 13 16-0051 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,643.55	1,058.50
26 05 13 16-0052 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,239.76	1,168.60
26 05 13 16-0053 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,964.89	1,315.94
26 05 13 16-0054 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,289.79	1,460.66
26 05 13 16-0055 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,204.81	1,641.20
26 05 13 16-0056 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,715.01	1,825.92
26 05 13 16-0057 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,335.43	2,180.09
26 05 13 16-0058 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,253.33	2,562.65
26 05 13 16-0059 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,075.11	3,020.36
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	27,901.72	3,477.86
<b>26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	2,788.88	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,127.72	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,502.23	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,913.94	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,324.82	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,681.49	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,824.72	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,288.39	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,521.60	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,352.47	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,400.42	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 13 16-0073</b>	<b>Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0073)</small></b>	
26 05 13 16-0074	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,230.23 486.72
26 05 13 16-0075	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,660.81 521.87
26 05 13 16-0076	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,394.62 659.95
26 05 13 16-0077	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,898.19 730.04
26 05 13 16-0078	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,404.33 801.16
26 05 13 16-0079	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,123.77 940.49
26 05 13 16-0080	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,438.54 1,075.56
26 05 13 16-0081	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,351.01 1,247.94
26 05 13 16-0082	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,238.16 1,569.99
26 05 13 16-0083	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,057.42 1,986.53
26 05 13 16-0084	MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,345.34 2,495.89
<b>26 05 13 16-0085</b>	<b>15 KV Cable <small>(26 05 13 16-0085)</small></b>	
<b>26 05 13 16-0086</b>	<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0086)</small></b>	
<b>26 05 13 16-0087</b>	<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0087)</small></b>	
26 05 13 16-0088	MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	5,722.91 1,532.20
26 05 13 16-0089	MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,107.87 1,532.20
26 05 13 16-0090	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,254.71 1,532.20
26 05 13 16-0091	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,733.07 1,532.20
26 05 13 16-0092	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	7,187.10 1,532.20
26 05 13 16-0093	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,116.98 1,599.36
26 05 13 16-0094	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,295.35 1,599.36
26 05 13 16-0095	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,451.40 1,672.53
26 05 13 16-0096	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,595.30 1,711.75
26 05 13 16-0097	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,944.24 1,928.12
<b>26 05 13 16-0098</b>	<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0098)</small></b> Note: Excludes excavation.	
26 05 13 16-0099	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,606.53
26 05 13 16-0100	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,084.88
26 05 13 16-0101	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,538.91
26 05 13 16-0102	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,489.99
26 05 13 16-0103	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,668.35
26 05 13 16-0104	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,915.36
26 05 13 16-0105	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,061.57
26 05 13 16-0106	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,191.41
<b>26 05 13 16-0107</b>	<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0107)</small></b>	
26 05 13 16-0108	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,234.53 695.31
26 05 13 16-0109	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,988.53 801.16
26 05 13 16-0110	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,805.33 940.49
26 05 13 16-0111	MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,919.22 1,075.56
26 05 13 16-0112	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,546.38 1,247.94
26 05 13 16-0113	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,052.79 1,452.77
26 05 13 16-0114	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,723.64 1,692.85
26 05 13 16-0115	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,244.04 1,966.40
<b>26 05 13 16-0116</b>	<b>Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0116)</small></b>	
<b>26 05 13 16-0117</b>	<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0117)</small></b>	
26 05 13 16-0118	MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,063.54 1,532.20
26 05 13 16-0119	MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,517.80 1,532.20
26 05 13 16-0120	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	6,691.07 1,532.20
26 05 13 16-0121	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	7,255.53 1,532.20
26 05 13 16-0122	MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	7,791.29 1,532.20
26 05 13 16-0123	MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,858.35 1,599.36
26 05 13 16-0124	MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,068.82 1,599.36
26 05 13 16-0125	MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,400.00 1,672.53
26 05 13 16-0126	MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,732.16 1,711.75
26 05 13 16-0127	MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,406.54 1,928.12



**26 Electrical****26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0128			<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial</b> (26 05 13 16-0116) Note: Excludes excavation.		
26 05 13 16-0129	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	5,042.89	
26 05 13 16-0130	MLF		1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	5,607.34	
26 05 13 16-0131	MLF		2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	6,143.10	
26 05 13 16-0132	MLF		3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	7,231.36	
26 05 13 16-0133	MLF		4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	7,441.83	
26 05 13 16-0134	MLF		250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	8,861.20	
26 05 13 16-0135	MLF		350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	10,191.58	
26 05 13 16-0136	MLF		500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial .....	12,653.72	
26 05 13 16-0137			<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)</b> (26 05 13 16-0116)		
26 05 13 16-0138	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	4,670.89	695.31
26 05 13 16-0139	MLF		1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	5,510.99	801.16
26 05 13 16-0140	MLF		2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	6,409.52	940.49
26 05 13 16-0141	MLF		3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	7,660.59	1,075.56
26 05 13 16-0142	MLF		4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	8,319.86	1,247.94
26 05 13 16-0143	MLF		250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	10,001.39	1,452.77
26 05 13 16-0144	MLF		350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	11,860.50	1,692.85
26 05 13 16-0145	MLF		500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) .....	14,706.35	1,966.40
26 05 13 16-0146			<b>15 KV Non-Shielded Single Copper Conductor</b> (26 05 13 16-0085)		
26 05 13 16-0147	MLF		1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct .....	7,783.27	1,537.57
26 05 13 16-0148	MLF		2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct .....	6,890.29	1,574.32
26 05 13 16-0149	MLF		3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct .....	9,863.70	1,611.08
26 05 13 16-0150	MLF		350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct .....	13,235.52	1,718.45
26 05 13 16-0151			<b>Shielded, Armored Copper, 15 KV, 3 Conductor Cable</b> (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152			<b>Galvanized Steel Interlocked Armor Cable</b> (26 05 13 16-0151)		
26 05 13 16-0153	LF		3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically .....	39.81	11.72
26 05 13 16-0154	LF		3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically .....	46.65	12.49
26 05 13 16-0155			<b>Aluminum Interlocked Armor Cable</b> (26 05 13 16-0151)		
26 05 13 16-0156	LF		3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically .....	39.81	11.72
26 05 13 16-0157	LF		3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically .....	46.65	12.49
26 05 13 16-0158			<b>Type URD, 15 KV Primary Concentric UD Cable</b> (26 05 13 16-0085) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159	MLF		#4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	2,839.82	768.84
26 05 13 16-0160	MLF		#2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	3,339.50	839.50
26 05 13 16-0161	MLF		#1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	3,969.02	948.51
26 05 13 16-0162	MLF		1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	5,123.29	1,165.42
26 05 13 16-0163	MLF		3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	5,829.61	1,312.00
26 05 13 16-0164	MLF		3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	7,119.20	1,460.66
26 05 13 16-0165	MLF		4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....	7,997.16	1,635.07
26 05 13 16-0166			<b>15 KV, URD Copper Cable, Direct Burial</b> (26 05 13 16-0085)		
26 05 13 16-0167	MLF		3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial .....	12,070.95	
26 05 13 16-0168			<b>Wire Connections</b> (26 05 13 16-0001)		
26 05 13 16-0169			<b>Medium Voltage Up To 5 KV</b> (26 05 13 16-0168)		
26 05 13 16-0170			<b>Shielded One Conductor Cable Splice</b> (26 05 13 16-0169)		
26 05 13 16-0171	EA		#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	263.84	101.74
26 05 13 16-0172	EA		#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	318.49	101.74
26 05 13 16-0173	EA		1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	318.49	101.74
26 05 13 16-0174	EA		2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	348.77	122.08
26 05 13 16-0175	EA		3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	348.77	122.08
26 05 13 16-0176	EA		4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	348.77	122.08
26 05 13 16-0177	EA		250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	389.14	142.43
26 05 13 16-0178	EA		350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	389.14	142.43
26 05 13 16-0179	EA		500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	389.14	142.43
26 05 13 16-0180			<b>Cable Termination Without Stress Cone</b> (26 05 13 16-0169)		
26 05 13 16-0181	EA		#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....	358.23	122.08
26 05 13 16-0182	EA		250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....	414.89	142.43



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 13 16-0183 Cable Termination With Stress Cone</b> <small>(26 05 13 16-0189)</small>						
	26 05 13 16-0184	EA		#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	954.11	244.17
	26 05 13 16-0185	EA		250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	1,317.46	335.72
<b>26 05 13 16-0186 Connect To Pothead, Pothead Included</b> <small>(26 05 13 16-0189)</small>						
	26 05 13 16-0187	EA		#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV.....	987.12	244.17
	26 05 13 16-0188	EA		250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV.....	1,237.44	279.77
<b>26 05 13 16-0189 Two Conductor Pothead</b> <small>(26 05 13 16-0189)</small>						
				Note: Includes 5 KV pothead.		
	26 05 13 16-0190	EA		#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	877.08	335.72
	26 05 13 16-0191	EA		250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,146.07	427.29
	26 05 13 16-0192	EA		400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,594.43	484.46
	26 05 13 16-0193	EA		750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,381.44	565.24
	26 05 13 16-0194	EA		1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,197.68	847.77
<b>26 05 13 16-0195 Three Conductor Pothead</b> <small>(26 05 13 16-0189)</small>						
				Note: Includes 5 KV pothead.		
	26 05 13 16-0196	EA		#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,711.03	488.33
	26 05 13 16-0197	EA		250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	3,001.55	569.72
<b>26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0189)</small>						
				Note: For bare wire.		
	26 05 13 16-0199	EA		#6 AWG Crimp Compression Connection For Bare Copper Wire.....	62.51	
	26 05 13 16-0200	EA		#4 AWG Crimp Compression Connection For Bare Copper Wire.....	68.69	
	26 05 13 16-0201	EA		#3 AWG Crimp Compression Connection For Bare Copper Wire.....	80.12	
	26 05 13 16-0202	EA		#2 AWG Crimp Compression Connection For Bare Copper Wire.....	91.07	
	26 05 13 16-0203	EA		#1 AWG Crimp Compression Connection For Bare Copper Wire.....	102.68	
	26 05 13 16-0204	EA		1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	114.03	
	26 05 13 16-0205	EA		2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	125.27	
	26 05 13 16-0206	EA		3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	136.95	
	26 05 13 16-0207	EA		4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	148.37	
	26 05 13 16-0208	EA		250 MCM Crimp Compression Connection For Bare Copper Wire.....	159.98	
	26 05 13 16-0209	EA		300 MCM Crimp Compression Connection For Bare Copper Wire.....	171.85	
	26 05 13 16-0210	EA		350 MCM Crimp Compression Connection For Bare Copper Wire.....	183.12	
	26 05 13 16-0211	EA		400 MCM Crimp Compression Connection For Bare Copper Wire.....	206.71	
	26 05 13 16-0212	EA		500 MCM Crimp Compression Connection For Bare Copper Wire.....	230.88	
<b>26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0189)</small>						
				Note: For bare wire.		
	26 05 13 16-0214	EA		#6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	63.69	
	26 05 13 16-0215	EA		#4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	69.34	
	26 05 13 16-0216	EA		#2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	93.21	
	26 05 13 16-0217	EA		#1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	108.14	
	26 05 13 16-0218	EA		1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	119.19	
	26 05 13 16-0219	EA		2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	130.19	
	26 05 13 16-0220	EA		3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	142.66	
	26 05 13 16-0221	EA		4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	154.41	
	26 05 13 16-0222	EA		250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	165.88	
	26 05 13 16-0223	EA		300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	177.62	
	26 05 13 16-0224	EA		350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	189.18	
	26 05 13 16-0225	EA		400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	215.38	
	26 05 13 16-0226	EA		500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	241.71	
<b>26 05 13 16-0227 15 KV</b> <small>(26 05 13 16-0189)</small>						
<b>26 05 13 16-0228 Single Conductor Pothead On Racks</b> <small>(26 05 13 16-0227)</small>						
				Note: Includes pothead.		
	26 05 13 16-0229	EA		#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,077.11	427.29
	26 05 13 16-0230	EA		250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,363.69	529.02
<b>26 05 13 16-0231 Two Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>						
				Note: Includes pothead.		
	26 05 13 16-0232	EA		#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	1,613.57	651.11
	26 05 13 16-0233	EA		250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	1,927.34	773.19
<b>26 05 13 16-0234 Three Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>						
				Note: Includes pothead.		
	26 05 13 16-0235	EA		#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,074.81	844.40
	26 05 13 16-0236	EA		250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,588.19	1,058.05

**26 Electrical****26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0237			<b>Stress Relief Cone On Rack</b> (26 05 13 16-0227)		
26 05 13 16-0238	EA		#2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,037.23	427.29
26 05 13 16-0239	EA		250 To 500 MCM Stress Relief Cone, On Rack.....	1,318.85	529.02
26 05 13 16-0240			<b>Grounded, Shielded Cable Splice</b> (26 05 13 16-0227)		
26 05 13 16-0241	EA		#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	737.30	315.38
26 05 13 16-0242	EA		250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	947.42	406.94
26 05 13 16-0243	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	3,745.42	1,119.09
26 05 13 16-0244	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	4,600.97	1,220.83
26 05 13 16-0245			<b>Cable Termination</b> (26 05 13 16-0227)		
26 05 13 16-0246	EA		#2 To 3/0 AWG Cable Termination 15 KV.....	459.01	178.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.82	
26 05 13 16-0247	EA		4/0 To 250 MCM Cable Termination 15 KV.....	583.74	228.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.34	
26 05 13 16-0248	EA		350 To 500 MCM Cable Termination 15 KV.....	719.82	279.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.86	
26 05 13 16-0249	EA		#2 To 3/0 AWG Cable Elbow Termination 15 KV.....	281.12	101.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 05 13 16-0250			<b>Stress Cones, 5-15 KV, 4 Skirted</b> (26 05 13 16-0227)		
26 05 13 16-0251	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	494.43	132.25
26 05 13 16-0252	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	558.61	146.18
26 05 13 16-0253	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	650.25	159.97
26 05 13 16-0254	EA		400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	815.63	184.31
26 05 13 16-0255			<b>Stress Cones, 5-15 KV, 6 Skirted</b> (26 05 13 16-0227)		
26 05 13 16-0256	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	988.88	264.96
26 05 13 16-0257	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,117.33	292.34
26 05 13 16-0258	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,288.63	313.99
26 05 13 16-0259	EA		400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,631.27	368.61
26 05 13 16-0260			<b>35 KV</b> (26 05 13 16-0168)		
26 05 13 16-0261			<b>35 KV One Conductor Splice</b> (26 05 13 16-0260)		
26 05 13 16-0262	EA		#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	1,834.69	
26 05 13 16-0263			<b>Cable Termination</b> (26 05 13 16-0260)		
26 05 13 16-0264	EA		#2 To 3/0 AWG Cable Termination, 35 KV.....	368.55	122.18
26 05 13 16-0265	EA		3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	520.59	184.35
26 05 13 16-0266	EA		350 To 500 MCM Cable Termination 35 KV.....	587.75	197.16
26 05 13 16-0267	EA		#2 To 3/0 AWG Cable Elbow Termination 35 KV.....	297.18	101.74
26 05 13 16-0268			<b>70 KV</b> (26 05 13 16-0168)		
26 05 13 16-0269			<b>Cable Splice</b> (26 05 13 16-0268)		
26 05 13 16-0270	EA		350 MCM, 70 KV, Cable Splicing.....	6,728.36	
26 05 13 16-0271	EA		#2 To 4/0, 70 KV, Cable Splicing.....	1,875.03	
26 05 19			<b>Low-Voltage Electrical Power Conductors And Cables</b> (26 05)		
26 05 19 16			<b>Low-Voltage, Single-And Multi-Conductor Cables</b> (26 05 19)		
26 05 19 16-0001			<b>Cable Installation Methods</b> (26 05 19 16)		
26 05 19 16-0002			<b>Pull Cord</b> (26 05 19 16-0001)		
			Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003	LF		Pull String Installed To Remain In Place, In Existing Conduit.....	0.31	
26 05 19 16-0004	LF		Pull String Installed To Remain In Place, In New Conduits.....	0.16	
26 05 19 16-0005	LF		1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.51	
26 05 19 16-0006	LF		1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.30	
26 05 19 16-0007			<b>Bore Conduit Into Dirt Or Sand</b> (26 05 19 16-0001)		
			Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008	LF		Bore 1" To 4" Conduit Into Dirt Or Sand.....	2.67	
26 05 19 16-0009	LF		Bore 5" To 8" Conduit Into Dirt Or Sand.....	3.40	
26 05 19 16-0010	EA		Boring Minimum Set-Up Charge.....	373.83	
			Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0011	<b>Wire and Cable</b> <small>(26 05 19 16)</small>	Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.		
26 05 19 16-0012	<b>600 Volt Wire</b> <small>(26 05 19 16-0011)</small>			
26 05 19 16-0013	<b>Single Solid Conductor, Copper</b> <small>(26 05 19 16-0012)</small>			
26 05 19 16-0014	MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	531.71	225.53	
26 05 19 16-0015	MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	658.30	265.30	
26 05 19 16-0016	MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	802.61	324.40	
26 05 19 16-0017	MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	738.19	225.53	
26 05 19 16-0018	MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	894.94	265.30	
26 05 19 16-0019	MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,077.94	324.40	
26 05 19 16-0020	<b>Power Cable, Stranded Conductor, Copper</b> <small>(26 05 19 16-0012)</small>			
26 05 19 16-0021	<b>Power Cable, Stranded, Single Conductor, XHHW-2</b> <small>(26 05 19 16-0020)</small>			
26 05 19 16-0022	MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	574.45	185.85	
26 05 19 16-0023	MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	678.99	223.02	
26 05 19 16-0024	MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	832.53	260.19	
26 05 19 16-0025	MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,019.18	297.36	
26 05 19 16-0026	MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,352.83	371.70	
26 05 19 16-0027	MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,815.43	446.03	
26 05 19 16-0028	MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,473.83	557.55	
26 05 19 16-0029	MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,920.93	631.88	
26 05 19 16-0030	MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,449.49	706.23	
26 05 19 16-0031	MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,255.67	780.57	
26 05 19 16-0032	MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,096.23	892.08	
26 05 19 16-0033	MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,090.76	1,003.59	
26 05 19 16-0034	MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,271.75	1,115.10	
26 05 19 16-0035	MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,690.32	1,226.61	
26 05 19 16-0036	MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,217.95	1,338.11	
26 05 19 16-0037	MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,900.48	1,449.63	
26 05 19 16-0038	MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,931.52	1,561.14	
26 05 19 16-0039	MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,694.69	1,672.64	
26 05 19 16-0040	MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,014.17	1,784.16	
26 05 19 16-0041	MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,264.67	1,932.84	
26 05 19 16-0042	MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	26,074.45	2,155.86	
26 05 19 16-0043	MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	36,667.15	2,527.56	
26 05 19 16-0044	<b>Power Cable, Stranded, Multi Conductor, XHHW-2</b> <small>(26 05 19 16-0020)</small>			
26 05 19 16-0045	MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,357.97	445.94	
26 05 19 16-0046	MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,665.25	520.47	
26 05 19 16-0047	MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,065.56	631.88	
26 05 19 16-0048	MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,446.98	687.36	
26 05 19 16-0049	MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,661.88	724.72	
26 05 19 16-0050	MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,090.27	798.96	
26 05 19 16-0051	MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,203.31	832.79	
26 05 19 16-0052	MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,733.93	910.67	
26 05 19 16-0053	MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,116.55	966.61	
26 05 19 16-0054	MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,981.23	1,226.70	
26 05 19 16-0055	MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,046.50	1,821.33	
26 05 19 16-0056	MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,665.30	520.47	
26 05 19 16-0057	MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,126.01	631.88	
26 05 19 16-0058	MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,586.75	743.40	
26 05 19 16-0059	MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,223.49	668.78	
26 05 19 16-0060	MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,869.94	816.99	
26 05 19 16-0061	MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,705.47	1,040.94	
26 05 19 16-0062	MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,001.13	1,338.58	
26 05 19 16-0063	MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,756.77	1,709.91	
26 05 19 16-0064	MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,752.12	761.99	
26 05 19 16-0065	MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,500.93	892.08	
26 05 19 16-0066	MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,528.53	1,133.69	
26 05 19 16-0067	MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,538.02	854.91	
26 05 19 16-0068	MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,749.33	1,059.34	
26 05 19 16-0069	MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,067.63	1,306.53	
26 05 19 16-0070	MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,752.92	1,037.22	
26 05 19 16-0071	MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,205.84	1,186.38	
26 05 19 16-0072	MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,020.95	1,480.48	
26 05 19 16-0073	MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,526.34	1,263.41	
26 05 19 16-0074	MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,583.81	1,412.83	
26 05 19 16-0075	MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,381.93	1,858.49	
26 05 19 16-0076	MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,372.37	1,783.88	
26 05 19 16-0077	MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	14,790.10	2,229.27	
26 05 19 16-0078	MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,431.06	1,933.21	
26 05 19 16-0079	MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,318.47	2,229.27	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 19 16-0080	MLF	3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,953.95	2,600.78
26 05 19 16-0081	MLF	4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,295.65	3,343.90
26 05 19 16-0082	MLF	3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	24,311.76	2,976.11
26 05 19 16-0083	MLF	3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	25,977.56	3,343.90
26 05 19 16-0084	MLF	3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,478.46	3,717.00
26 05 19 16-0085	MLF	3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	41,874.24	4,085.16

**26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper**

(26 05 19 16-0012)

Note: Direct bury.

26 05 19 16-0087	MLF	#14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	747.02	
26 05 19 16-0088	MLF	#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	877.59	
26 05 19 16-0089	MLF	#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,080.26	
26 05 19 16-0090	MLF	#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,407.82	
26 05 19 16-0091	MLF	#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,919.21	
26 05 19 16-0092	MLF	#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,507.37	
26 05 19 16-0093	MLF	#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,555.05	
26 05 19 16-0094	MLF	#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,353.59	
26 05 19 16-0095	MLF	1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,294.20	
26 05 19 16-0096	MLF	2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,360.49	
26 05 19 16-0097	MLF	3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,600.70	
26 05 19 16-0098	MLF	4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,562.88	
26 05 19 16-0099	MLF	250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,279.78	
26 05 19 16-0100	MLF	300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,002.35	
26 05 19 16-0101	MLF	350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,259.08	
26 05 19 16-0102	MLF	400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,715.67	
26 05 19 16-0103	MLF	500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,105.84	
26 05 19 16-0104	MLF	600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,925.04	
26 05 19 16-0105	MLF	750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,390.73	
26 05 19 16-0106	MLF	#14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	674.07	
26 05 19 16-0107	MLF	#12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	806.43	
26 05 19 16-0108	MLF	#10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	962.19	
26 05 19 16-0109	MLF	#8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,181.88	
26 05 19 16-0110	MLF	#6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,512.49	
26 05 19 16-0111	MLF	#4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,002.82	
26 05 19 16-0112	MLF	#2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,707.19	
26 05 19 16-0113	MLF	#1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,190.02	
26 05 19 16-0114	MLF	1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,612.98	
26 05 19 16-0115	MLF	2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,071.62	
26 05 19 16-0116	MLF	3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,719.32	
26 05 19 16-0117	MLF	4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,496.86	
26 05 19 16-0118	MLF	250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,222.35	
26 05 19 16-0119	MLF	300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,986.14	
26 05 19 16-0120	MLF	350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,812.90	
26 05 19 16-0121	MLF	400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,667.04	
26 05 19 16-0122	MLF	500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,055.50	
26 05 19 16-0123	MLF	750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,619.39	
26 05 19 16-0124	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	536.13	
26 05 19 16-0125	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	659.86	
26 05 19 16-0126	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	804.17	
26 05 19 16-0127	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,103.86	
26 05 19 16-0128	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,464.51	
26 05 19 16-0129	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,889.75	
26 05 19 16-0130	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,652.57	
26 05 19 16-0131	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,122.33	
26 05 19 16-0132	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,629.28	
26 05 19 16-0133	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,090.10	
26 05 19 16-0134	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,778.75	
26 05 19 16-0135	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,635.06	
26 05 19 16-0136	MLF	250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,554.12	
26 05 19 16-0137	MLF	300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,507.95	
26 05 19 16-0138	MLF	350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,526.48	
26 05 19 16-0139	MLF	400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,512.38	
26 05 19 16-0140	MLF	500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,155.28	
26 05 19 16-0141	MLF	600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,294.12	
26 05 19 16-0142	MLF	750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,307.84	
26 05 19 16-0143	MLF	#2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,217.76	
26 05 19 16-0144	MLF	1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,998.76	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0145 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	6,666.41	
26 05 19 16-0146 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	7,560.43	
26 05 19 16-0147 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	8,396.68	
26 05 19 16-0148 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	9,056.38	
26 05 19 16-0149 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	12,819.39	
26 05 19 16-0150 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	13,924.99	
26 05 19 16-0151 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable .....	15,823.97	
<b>26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors</b> <small>(26 05 19 16-0012)</small>		
<b>26 05 19 16-0153 ACTHH, Solid</b> <small>(26 05 19 16-0152)</small>		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable .....	2,055.32	610.41
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable .....	2,364.64	691.80
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable .....	2,677.59	732.50
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable .....	3,029.41	1,017.35
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable .....	3,269.25	1,139.24
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable .....	4,053.14	1,262.23
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable .....	5,170.93	1,384.11
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable .....	3,619.80	1,139.24
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable .....	3,824.97	1,262.23
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable .....	4,800.89	1,424.91
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable .....	6,091.00	1,546.18
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable .....	4,270.41	1,262.23
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable .....	4,699.37	1,424.91
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable .....	5,871.97	1,587.17
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable .....	7,450.62	1,709.87
<b>26 05 19 16-0169 ACTHH, Stranded</b> <small>(26 05 19 16-0152)</small>		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable .....	5,375.36	1,465.90
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable .....	6,499.39	1,667.75
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable .....	6,295.09	1,627.77
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable .....	7,797.17	1,829.82
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable .....	9,737.77	2,034.71
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable .....	11,147.91	2,235.94
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable .....	12,718.01	2,439.72
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable .....	8,057.76	1,952.71
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable .....	9,659.78	2,155.37
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable .....	12,237.62	2,360.46
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable .....	13,400.28	2,562.61
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable .....	15,772.80	2,764.56
<b>26 05 19 16-0182 HCFC, Solid</b> <small>(26 05 19 16-0152)</small>		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable .....	3,334.70	1,017.35
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable .....	3,664.59	1,143.09
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable .....	4,086.14	1,256.02
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable .....	4,001.02	1,143.09
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable .....	4,306.28	1,256.02
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable .....	5,535.77	1,432.94
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable .....	4,847.82	1,256.02
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable .....	5,324.58	1,432.94
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable .....	7,109.47	1,589.62
<b>26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor</b> <small>(26 05 19 16-0152)</small>		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	3,020.64	1,017.35
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	3,376.80	1,143.09
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	4,007.94	1,256.02
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,011.13	1,342.20
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	6,131.80	1,422.87
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	3,474.97	1,143.09
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	3,906.13	1,256.02
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	4,893.08	1,432.94
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	6,222.31	1,546.18
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	7,216.25	1,667.75
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	8,812.49	1,791.16
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	11,947.02	1,912.32
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	3,999.03	1,256.02
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	4,578.73	1,432.94
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	6,672.50	1,589.62
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	8,877.40	1,751.07
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	10,736.40	1,873.56
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	13,964.81	1,994.83
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	17,845.32	2,115.08
<b>26 05 19 16-0212 FPLP Solid TFN Red Armored Cable</b> <small>(26 05 19 16-0152)</small>		
Note: Color coded red.		
26 05 19 16-0213 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	2,908.03	773.19

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 19 Low-Voltage Electrical Power Conductors And Cables**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0214	MLF		#18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	3,312.03	895.27
26 05 19 16-0215	MLF		#18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	4,053.91	1,017.35
26 05 19 16-0216	MLF		#18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	4,634.45	1,139.44
26 05 19 16-0217	MLF		#16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	3,318.46	895.27
26 05 19 16-0218	MLF		#16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	3,899.59	1,017.35
26 05 19 16-0219	MLF		#16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	4,819.75	1,139.44
26 05 19 16-0220	MLF		#16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	5,463.43	1,261.52
<b>26 05 19 16-0221</b>			<b>FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)</b>		
			Note: Color coded red.		
26 05 19 16-0222	MLF		#14/2 With #14 Ground Type THHN FPLP Red Armored Cable.....	3,699.08	1,017.35
26 05 19 16-0223	MLF		#14/4 With #14 Ground Type THHN FPLP Red Armored Cable.....	4,523.96	1,139.44
26 05 19 16-0224	MLF		#14/6 With #14 Ground Type THHN FPLP Red Armored Cable.....	5,876.72	1,261.52
26 05 19 16-0225	MLF		#14/8 With #14 Ground Type THHN FPLP Red Armored Cable.....	6,769.42	1,383.60
26 05 19 16-0226	MLF		#12/2 With #12 Ground Type THHN FPLP Red Armored Cable.....	4,585.93	1,139.44
26 05 19 16-0227	MLF		#12/4 With #12 Ground Type THHN FPLP Red Armored Cable.....	5,537.08	1,261.52
<b>26 05 19 16-0228</b>			<b>FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)</b>		
			Note: Color coded red.		
26 05 19 16-0229	MLF		#18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	3,118.47	773.19
26 05 19 16-0230	MLF		#18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	4,941.34	1,139.44
26 05 19 16-0231	MLF		#16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	3,804.24	895.27
26 05 19 16-0232	MLF		#16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable.....	4,471.30	1,017.35
26 05 19 16-0233	MLF		#16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,132.17	1,261.52
26 05 19 16-0234	MLF		#14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	4,461.37	1,058.05
26 05 19 16-0235	MLF		#14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	5,463.40	1,220.83
<b>26 05 19 16-0236</b>			<b>Armored Cable Connectors (26 05 19 16-0152)</b>		
26 05 19 16-0237	EA		3/4" Armored Cable Connector .....	6.00	2.23
			For Work In Restricted Working Space, Add	1.67	
			For Elevated Installation >10' To 15', Add	0.56	
			For Elevated Installation >15' To 20', Add	1.11	
			For Elevated Installation >20' To 25', Add	1.39	
			For Elevated Installation >25' To 30', Add	1.95	
			For Elevated Installation >30' To 35', Add	2.23	
			For Elevated Installation >35' To 40', Add	2.79	
			For Elevated Installation >40', Add	3.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.67	
26 05 19 16-0238	EA		1" Armored Cable Connector .....	8.03	2.98
			For Work In Restricted Working Space, Add	2.23	
			For Elevated Installation >10' To 15', Add	0.74	
			For Elevated Installation >15' To 20', Add	1.49	
			For Elevated Installation >20' To 25', Add	1.86	
			For Elevated Installation >25' To 30', Add	2.60	
			For Elevated Installation >30' To 35', Add	2.98	
			For Elevated Installation >35' To 40', Add	3.72	
			For Elevated Installation >40', Add	4.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 19 16-0239	EA		1-1/4" Armored Cable Connector .....	10.07	3.72
			For Work In Restricted Working Space, Add	2.79	
			For Elevated Installation >10' To 15', Add	0.93	
			For Elevated Installation >15' To 20', Add	1.86	
			For Elevated Installation >20' To 25', Add	2.32	
			For Elevated Installation >25' To 30', Add	3.25	
			For Elevated Installation >30' To 35', Add	3.72	
			For Elevated Installation >35' To 40', Add	4.65	
			For Elevated Installation >40', Add	5.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
<b>26 05 19 16-0240</b>			<b>600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)</b>		
26 05 19 16-0241	MLF		#12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	708.45	225.62
26 05 19 16-0242	MLF		#10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	877.18	265.30
26 05 19 16-0243	MLF		#8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,230.93	360.83
26 05 19 16-0244	MLF		#6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,674.60	431.91
26 05 19 16-0245	MLF		#4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	2,213.51	503.56
26 05 19 16-0246	MLF		#2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,162.10	648.71
26 05 19 16-0247	MLF		#1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,766.71	721.75
26 05 19 16-0248	MLF		1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	4,382.00	813.18
26 05 19 16-0249	MLF		2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	4,973.45	902.11
26 05 19 16-0250	MLF		3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	5,900.88	1,012.97
26 05 19 16-0251	MLF		4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	7,031.48	1,117.51
26 05 19 16-0252	MLF		250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	8,254.64	1,228.46
26 05 19 16-0253	MLF		300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	9,529.08	1,342.76
26 05 19 16-0254	MLF		350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	10,898.96	1,443.40
26 05 19 16-0255	MLF		400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	12,220.70	1,603.79
26 05 19 16-0256	MLF		500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	14,511.49	1,767.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0257 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	754.46	148.96
<i>For EPR Insulation, Add</i>	29.54	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	68.92	
26 05 19 16-0258 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	851.20	164.95
<i>For EPR Insulation, Add</i>	30.11	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	70.26	
26 05 19 16-0259 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,036.47	206.20
<i>For EPR Insulation, Add</i>	43.96	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	102.57	
26 05 19 16-0260 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,411.05	328.03
<i>For EPR Insulation, Add</i>	72.27	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	168.63	
26 05 19 16-0261 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,924.71	393.62
<i>For EPR Insulation, Add</i>	121.44	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	283.36	
26 05 19 16-0262 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,618.71	457.01
<i>For EPR Insulation, Add</i>	183.73	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	428.69	
26 05 19 16-0263 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,987.37	523.08
<i>For EPR Insulation, Add</i>	211.15	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	492.68	
26 05 19 16-0264 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,754.88	589.14
<i>For EPR Insulation, Add</i>	298.40	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	696.26	
26 05 19 16-0265 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,639.30	656.14
<i>For EPR Insulation, Add</i>	403.18	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	940.76	
26 05 19 16-0266 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,587.17	740.24
<i>For EPR Insulation, Add</i>	503.55	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,174.94	
26 05 19 16-0267 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,728.77	820.90
<i>For EPR Insulation, Add</i>	632.97	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,476.93	
26 05 19 16-0268 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,060.89	916.42
<i>For EPR Insulation, Add</i>	790.97	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	1,845.60	
26 05 19 16-0269 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,088.45	1,018.92
<i>For EPR Insulation, Add</i>	903.29	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,107.67	
26 05 19 16-0270 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,682.67	1,117.51
<i>For EPR Insulation, Add</i>	950.61	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,218.08	
26 05 19 16-0271 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,408.50	1,228.46
<i>For EPR Insulation, Add</i>	1,167.66	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	2,724.55	
26 05 19 16-0272 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,719.05	1,302.34
<i>For EPR Insulation, Add</i>	1,322.43	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,085.67	
26 05 19 16-0273 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,240.46	1,455.58
<i>For EPR Insulation, Add</i>	1,508.83	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	3,520.59	
26 05 19 16-0274 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,255.37	1,618.84
<i>For EPR Insulation, Add</i>	1,769.25	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	4,128.24	
26 05 19 16-0275 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	19,011.88	1,684.26
<i>For EPR Insulation, Add</i>	2,126.97	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	4,962.93	
26 05 19 16-0276 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	30,711.79	1,749.59
<i>For EPR Insulation, Add</i>	3,798.32	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	8,862.75	
26 05 19 16-0277 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	38,615.93	1,869.47
<i>For EPR Insulation, Add</i>	4,928.19	
<i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	11,499.11	
26 05 19 16-0278 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,157.00	334.34
26 05 19 16-0279 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,405.58	371.70
26 05 19 16-0280 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,746.03	446.42
26 05 19 16-0281 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,062.57	520.19
26 05 19 16-0282 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,880.32	556.99
26 05 19 16-0283 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	419.81	185.85
26 05 19 16-0284 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	523.84	204.44
26 05 19 16-0285 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	532.73	149.05
26 05 19 16-0286 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	654.99	177.67
26 05 19 16-0287 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	796.86	223.49
26 05 19 16-0288 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,091.12	294.57
26 05 19 16-0289 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,443.45	355.72
26 05 19 16-0290 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,857.29	420.39
26 05 19 16-0291 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,202.11	475.87
26 05 19 16-0292 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,601.48	532.93
26 05 19 16-0293 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,057.72	601.41
26 05 19 16-0294 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,553.80	658.56
26 05 19 16-0295 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,001.54	727.78
26 05 19 16-0296 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,666.24	769.79
26 05 19 16-0297 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,495.05	866.05
26 05 19 16-0298 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,383.61	921.35

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0299 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,305.30	1,043.46
26 05 19 16-0300 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,288.63	1,154.78
26 05 19 16-0301 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,240.85	1,186.38
26 05 19 16-0302 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,818.77	1,255.14
26 05 19 16-0303 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,201.20	1,477.04
26 05 19 16-0304 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	19,579.73	1,749.59
26 05 19 16-0305 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,369.42	2,112.37
26 05 19 16-0306 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,758.68	446.42
26 05 19 16-0307 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,983.04	520.19
26 05 19 16-0308 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,288.33	595.19
26 05 19 16-0309 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,854.07	668.78
26 05 19 16-0310 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,217.15	743.40
26 05 19 16-0311 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,952.72	816.99
<b>26 05 19 16-0312 Non-Metallic Sheathed Cable (26 05 19 16-0012)</b>		
<b>26 05 19 16-0313 Indoor Installation (26 05 19 16-0312)</b>		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0314 MLF 2 Conductors With Ground Cable, #14 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	2,025.46	706.14
For Installation In Wood Stud Wall (Includes Drilling), Add	264.80	
26 05 19 16-0315 MLF 3 Conductors With Ground Cable, #14 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	2,490.71	854.91
For Installation In Wood Stud Wall (Includes Drilling), Add	320.60	
26 05 19 16-0316 MLF 2 Conductors With Ground Cable, #12 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	2,215.56	802.87
For Installation In Wood Stud Wall (Includes Drilling), Add	285.74	
26 05 19 16-0317 MLF 3 Conductors With Ground Cable, #12 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	2,748.34	891.89
For Installation In Wood Stud Wall (Includes Drilling), Add	334.47	
26 05 19 16-0318 MLF 2 Conductors With Ground Cable, #10 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	2,785.48	892.36
For Installation In Wood Stud Wall (Includes Drilling), Add	334.64	
26 05 19 16-0319 MLF 3 Conductors With Ground Cable, #10 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	3,406.48	1,040.94
For Installation In Wood Stud Wall (Includes Drilling), Add	390.35	
26 05 19 16-0320 MLF 2 Conductors With Ground Cable, #8 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	3,528.36	1,068.64
For Installation In Wood Stud Wall (Includes Drilling), Add	380.53	
26 05 19 16-0321 MLF 3 Conductors With Ground Cable, #8 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	4,563.17	1,291.66
For Installation In Wood Stud Wall (Includes Drilling), Add	459.98	
26 05 19 16-0322 MLF 2 Conductors With Ground Cable, #6 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	4,232.41	1,217.31
For Installation In Wood Stud Wall (Includes Drilling), Add	432.10	
26 05 19 16-0323 MLF 3 Conductors With Ground Cable, #6 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	5,438.67	1,468.22
For Installation In Wood Stud Wall (Includes Drilling), Add	522.70	
26 05 19 16-0324 MLF 3 Conductors With Ground Cable, #4 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	7,001.91	1,616.89
For Installation In Wood Stud Wall (Includes Drilling), Add	574.97	
26 05 19 16-0325 MLF 3 Conductors With Ground Cable, #3 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	9,657.14	1,756.28
For Installation In Wood Stud Wall (Includes Drilling), Add	627.24	
<b>26 05 19 16-0326 Direct Burial Cable (26 05 19 16-0312)</b>		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0327 MLF 2 Conductors With Ground Cable, #14 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	2,116.84	
26 05 19 16-0328 MLF 3 Conductors With Ground Cable, #14 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	2,677.95	
26 05 19 16-0329 MLF 2 Conductors With Ground Cable, #12 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	2,667.40	
26 05 19 16-0330 MLF 3 Conductors With Ground Cable, #12 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	3,114.06	
26 05 19 16-0331 MLF 2 Conductors With Ground Cable, #10 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	2,919.31	
26 05 19 16-0332 MLF 3 Conductors With Ground Cable, #10 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	3,663.40	
26 05 19 16-0333 MLF 2 Conductors With Ground Cable, #8 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	3,827.97	
26 05 19 16-0334 MLF 3 Conductors With Ground Cable, #8 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	4,807.21	
26 05 19 16-0335 MLF 2 Conductors With Ground Cable, #6 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	4,865.14	
26 05 19 16-0336 MLF 3 Conductors With Ground Cable, #6 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	5,785.00	
<b>26 05 19 16-0337 SEU Cable Copper, 3 Conductor (26 05 19 16-0312)</b>		
26 05 19 16-0338 MLF 12-12-12 Cable SEU Copper .....	2,589.77	895.57
26 05 19 16-0339 MLF 10-10-10 Cable SEU Copper .....	3,170.64	1,017.35
26 05 19 16-0340 MLF 8-8-8 Cable SEU Copper .....	3,850.74	1,139.24
26 05 19 16-0341 MLF 6-6-8 Cable SEU Copper .....	4,535.35	1,221.34
26 05 19 16-0342 MLF 6-6-6 Cable SEU Copper .....	4,840.39	1,262.23
26 05 19 16-0343 MLF 4-4-6 Cable SEU Copper .....	5,785.76	1,384.11
26 05 19 16-0344 MLF 4-4-4 Cable SEU Copper .....	6,184.80	1,424.91
26 05 19 16-0345 MLF 3-3-5 Cable SEU Copper .....	7,117.53	1,546.18
26 05 19 16-0346 MLF 3-3-3 Cable SEU Copper .....	7,549.32	1,627.77
26 05 19 16-0347 MLF 2-2-4 Cable SEU Copper .....	8,043.21	1,709.87
26 05 19 16-0348 MLF 2-2-2 Cable SEU Copper .....	8,572.01	1,791.16
26 05 19 16-0349 MLF 1-1-1 Cable SEU Copper .....	10,376.21	2,034.71
26 05 19 16-0350 MLF 1/0-1/0-1/0 Cable SEU Copper .....	12,245.02	2,281.11





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0351 MLF 2/0-2/0-2/0 Cable SEU Copper .....	14,614.47	2,569.12
26 05 19 16-0352 MLF 3/0-3/0-3/0 Cable SEU Copper .....	17,411.35	2,857.75
26 05 19 16-0353 MLF 4/0-4/0-4/0 Cable SEU Copper .....	19,454.84	3,189.20
<b>26 05 19 16-0354 SER Cable Copper, 4 Conductor</b> (26 05 19 16-0312)		
26 05 19 16-0354 MLF 6-6-6-6 Cable SER Copper .....	8,077.11	1,465.90
26 05 19 16-0356 MLF 4-4-4-6 Cable SER Copper .....	10,327.14	1,587.17
26 05 19 16-0357 MLF 3-3-3-5 Cable SER Copper .....	12,104.21	1,791.16
26 05 19 16-0358 MLF 2-2-2-4 Cable SER Copper .....	14,089.31	1,952.71
26 05 19 16-0359 MLF 1-1-1-3 Cable SER Copper .....	17,119.36	2,235.94
26 05 19 16-0360 MLF 1/0-1/0-1/0-2 Cable SER Copper .....	21,695.15	2,562.61
26 05 19 16-0361 MLF 2/0-2/0-2/0-1 Cable SER Copper .....	25,825.91	2,764.56
26 05 19 16-0362 MLF 3/0-3/0-3/0-1/0 Cable SER Copper .....	31,080.97	3,092.25
<b>26 05 19 16-0363 Control Tray Cable, Low Voltage</b> (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0364 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable .....	950.00	450.77
For Work In Restricted Working Space, Add	225.39	
26 05 19 16-0365 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable .....	1,095.89	504.25
For Work In Restricted Working Space, Add	252.12	
26 05 19 16-0366 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable .....	1,147.94	504.21
For Work In Restricted Working Space, Add	252.12	
26 05 19 16-0367 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable .....	1,437.28	632.43
For Work In Restricted Working Space, Add	316.22	
26 05 19 16-0368 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable .....	1,809.61	770.67
For Work In Restricted Working Space, Add	385.34	
26 05 19 16-0369 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable .....	2,065.37	847.48
For Work In Restricted Working Space, Add	423.74	
26 05 19 16-0370 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable .....	2,456.52	962.95
For Work In Restricted Working Space, Add	481.47	
26 05 19 16-0371 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable .....	3,106.59	1,176.99
For Work In Restricted Working Space, Add	588.49	
26 05 19 16-0372 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable .....	3,549.96	1,284.04
For Work In Restricted Working Space, Add	642.02	
26 05 19 16-0373 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable .....	4,203.53	1,324.17
For Work In Restricted Working Space, Add	662.09	
26 05 19 16-0374 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable .....	5,155.80	1,654.25
For Work In Restricted Working Space, Add	827.12	
26 05 19 16-0375 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable .....	6,183.90	1,933.30
For Work In Restricted Working Space, Add	966.65	
26 05 19 16-0376 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable .....	1,039.18	474.84
For Work In Restricted Working Space, Add	237.24	
26 05 19 16-0377 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable .....	1,204.00	530.78
For Work In Restricted Working Space, Add	265.39	
26 05 19 16-0378 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable .....	1,402.86	611.07
For Work In Restricted Working Space, Add	305.54	
26 05 19 16-0379 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable .....	1,588.55	665.71
For Work In Restricted Working Space, Add	332.86	
26 05 19 16-0380 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable .....	2,008.50	811.23
For Work In Restricted Working Space, Add	405.62	
26 05 19 16-0381 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable .....	2,302.93	892.08
For Work In Restricted Working Space, Add	446.04	
26 05 19 16-0382 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable .....	2,753.89	1,013.62
For Work In Restricted Working Space, Add	506.81	
26 05 19 16-0383 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable .....	3,495.98	1,238.88
For Work In Restricted Working Space, Add	619.44	
26 05 19 16-0384 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable .....	4,014.87	1,351.50
For Work In Restricted Working Space, Add	675.75	
26 05 19 16-0385 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable .....	4,818.83	1,393.87
For Work In Restricted Working Space, Add	696.94	
26 05 19 16-0386 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable .....	5,900.44	1,741.23
For Work In Restricted Working Space, Add	870.61	
26 05 19 16-0387 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable .....	7,093.92	2,035.05
For Work In Restricted Working Space, Add	1,017.53	
26 05 19 16-0388 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable .....	1,127.71	495.66
For Work In Restricted Working Space, Add	247.83	
26 05 19 16-0389 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable .....	1,349.14	557.55
For Work In Restricted Working Space, Add	278.78	
26 05 19 16-0390 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable .....	1,582.57	637.28
For Work In Restricted Working Space, Add	318.64	
26 05 19 16-0391 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable .....	1,782.62	686.34
For Work In Restricted Working Space, Add	343.17	
26 05 19 16-0392 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable .....	2,378.05	841.34
For Work In Restricted Working Space, Add	420.67	
26 05 19 16-0393 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable .....	2,743.69	929.25
For Work In Restricted Working Space, Add	464.72	
26 05 19 16-0394 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable .....	3,372.49	1,037.04
For Work In Restricted Working Space, Add	518.52	
26 05 19 16-0395 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable .....	4,028.24	1,238.69
For Work In Restricted Working Space, Add	619.44	
26 05 19 16-0396 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable .....	6,845.73	1,439.41
For Work In Restricted Working Space, Add	719.52	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0397 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,046.27 841.62	1,682.87
26 05 19 16-0398 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,032.28 940.31	1,880.61
26 05 19 16-0399 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	8,475.91 1,098.93	2,197.85
26 05 19 16-0400 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,316.36 265.39	530.78
26 05 19 16-0401 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,575.81 293.55	587.28
26 05 19 16-0402 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,918.73 337.88	675.75
26 05 19 16-0403 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,174.54 359.62	719.24
26 05 19 16-0404 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,872.20 428.75	857.51
26 05 19 16-0405 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	3,546.37 506.81	1,013.62
26 05 19 16-0406 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	4,318.80 571.77	1,143.54
26 05 19 16-0407 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	5,143.52 655.96	1,311.91
26 05 19 16-0408 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,085.84 743.49	1,486.99
26 05 19 16-0409 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,805.09 868.94	1,737.88
26 05 19 16-0410 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	9,037.23 1,015.58	2,031.16
26 05 19 16-0411 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	10,935.32 1,187.02	2,374.04
26 05 19 16-0412 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,573.88 278.78	557.55
26 05 19 16-0413 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,970.60 305.54	611.44
26 05 19 16-0414 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,403.50 348.47	696.94
26 05 19 16-0415 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,797.70 378.02	756.03
26 05 19 16-0416 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	3,793.42 474.47	948.95
26 05 19 16-0417 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	4,502.49 531.07	1,062.14
26 05 19 16-0418 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	5,246.52 619.44	1,238.88
26 05 19 16-0419 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,205.32 708.37	1,416.73
26 05 19 16-0420 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,366.04 802.87	1,605.74
26 05 19 16-0421 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	9,509.06 938.36	1,876.71
26 05 19 16-0422 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	11,003.23 1,096.70	2,193.40
26 05 19 16-0423 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	13,345.76 1,282.08	2,564.17
<b>26 05 19 16-0424 ACSR (Aluminum Conductor Steel Reinforced)</b> <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
<b>26 05 19 16-0425 ACSR Cable</b> <small>(26 05 19 16-0424)</small>		
26 05 19 16-0426 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,259.07	451.37
26 05 19 16-0427 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,321.28	468.68
26 05 19 16-0428 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,397.45	486.72
26 05 19 16-0429 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,460.23	504.35
26 05 19 16-0430 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,565.27	521.46
26 05 19 16-0431 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,798.77	591.12
26 05 19 16-0432 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,043.19	659.22
26 05 19 16-0433 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,304.45	728.26
26 05 19 16-0434 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	2,825.50	935.91
26 05 19 16-0435 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	3,227.59	1,073.57
<b>26 05 19 16-0436 All Aluminum Conductors</b> <small>(26 05 19 16-0424)</small>		
26 05 19 16-0437 MLF 795.0 ACSR Conductor Aluminum	23,992.27	8,764.20
<b>26 05 19 16-0438 Single Conductor Installed On Poles</b> <small>(26 05 19 16-0011)</small>		
<b>26 05 19 16-0439 Bare Stranded Conductor</b> <small>(26 05 19 16-0438)</small>		
26 05 19 16-0440 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,088.98	382.44
26 05 19 16-0441 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,250.16	416.85
26 05 19 16-0442 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,412.46	451.68
26 05 19 16-0443 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,675.51	486.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0444 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,979.75	521.87
26 05 19 16-0445 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,735.36	625.95
26 05 19 16-0446 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,123.53	695.31
26 05 19 16-0447 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,539.79	763.41
26 05 19 16-0448 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,649.79	905.46
26 05 19 16-0449 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,594.95	1,041.03
26 05 19 16-0450 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	6,056.65	1,179.84
26 05 19 16-0451 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,581.78	1,390.51
26 05 19 16-0452 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,789.64	1,463.72
26 05 19 16-0453 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,482.89	1,532.87
26 05 19 16-0454 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,398.58	1,595.75
26 05 19 16-0455 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,960.98	1,663.85
<b>26 05 19 16-0456 Insulated Stranded Conductor</b> <small>(26 05 19 16-0438)</small>		
26 05 19 16-0457 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,151.82	382.44
26 05 19 16-0458 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,331.24	416.85
26 05 19 16-0459 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,572.53	451.68
26 05 19 16-0460 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,705.81	486.72
26 05 19 16-0461 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,025.98	521.87
26 05 19 16-0462 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,668.60	625.95
26 05 19 16-0463 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,116.87	695.31
26 05 19 16-0464 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,632.74	763.41
26 05 19 16-0465 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,364.34	905.46
26 05 19 16-0466 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,197.07	1,041.03
26 05 19 16-0467 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,087.69	1,179.84
26 05 19 16-0468 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,391.87	1,390.51
26 05 19 16-0469 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,292.34	1,463.72
26 05 19 16-0470 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,034.47	1,532.87
26 05 19 16-0471 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,026.77	1,595.75
26 05 19 16-0472 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,170.16	1,663.85
<b>26 05 19 16-0473 Bare Solid Conductor</b> <small>(26 05 19 16-0438)</small>		
26 05 19 16-0474 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,088.98	382.44
26 05 19 16-0475 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,412.46	451.68
26 05 19 16-0476 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,675.51	486.72
26 05 19 16-0477 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,960.65	521.87
<b>26 05 19 16-0478 Multi-Conductor Cords, Cables And Associated Equipment</b> <small>(26 05 19 16-0011)</small>		
<b>26 05 19 16-0479 Multi-Conductor Cords</b> <small>(26 05 19 16-0478)</small>		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
<b>26 05 19 16-0480 Multi-Conductor Type SOOW And SJOOW Cord</b> <small>(26 05 19 16-0479)</small>		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
<b>26 05 19 16-0481 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0480)</small>		
<b>26 05 19 16-0482 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0481)</small>		
26 05 19 16-0483 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.09	0.41
26 05 19 16-0484 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.15	0.41
26 05 19 16-0485 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.31	0.41
<b>26 05 19 16-0486 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0481)</small>		
26 05 19 16-0487 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.27	0.41
26 05 19 16-0488 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.37	0.41
26 05 19 16-0489 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.50	0.41
<b>26 05 19 16-0490 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0481)</small>		
26 05 19 16-0491 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.45	0.41
26 05 19 16-0492 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.60	0.41
26 05 19 16-0493 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.90	0.41
<b>26 05 19 16-0494 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0481)</small>		
26 05 19 16-0495 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.70	0.41
26 05 19 16-0496 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.89	0.41
26 05 19 16-0497 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.15	0.41
<b>26 05 19 16-0498 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0481)</small>		
26 05 19 16-0499 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.25	0.51
26 05 19 16-0500 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.38	0.51
26 05 19 16-0501 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.57	0.51

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 19 Low-Voltage Electrical Power Conductors And Cables**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 19 16-0502		600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0480)</small>		
26 05 19 16-0503		<b>#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0504	LF	2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.15	0.41
26 05 19 16-0505	LF	3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.26	0.41
26 05 19 16-0506	LF	4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.40	0.41
26 05 19 16-0507	LF	5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	2.50	0.55
26 05 19 16-0508	LF	6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	2.75	0.56
26 05 19 16-0509	LF	7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	2.93	0.58
26 05 19 16-0510	LF	8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.24	0.59
26 05 19 16-0511	LF	10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.75	0.62
26 05 19 16-0512	LF	12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	4.30	0.64
26 05 19 16-0513	LF	14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.75	0.66
26 05 19 16-0514	LF	16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.86	0.67
26 05 19 16-0515	LF	18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	6.01	0.69
26 05 19 16-0516	LF	20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	6.72	0.70
26 05 19 16-0517	LF	24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	8.53	0.72
26 05 19 16-0518	LF	30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	8.90	0.76
26 05 19 16-0519		<b>#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0520	LF	2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.36	0.41
26 05 19 16-0521	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.46	0.41
26 05 19 16-0522	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.65	0.41
26 05 19 16-0523	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	2.63	0.55
26 05 19 16-0524	LF	6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	2.92	0.56
26 05 19 16-0525	LF	7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.20	0.58
26 05 19 16-0526	LF	8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.56	0.59
26 05 19 16-0527	LF	9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.72	0.61
26 05 19 16-0528	LF	10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	4.15	0.62
26 05 19 16-0529	LF	12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	4.88	0.64
26 05 19 16-0530	LF	14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.25	0.66
26 05 19 16-0531	LF	16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.96	0.67
26 05 19 16-0532	LF	18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	6.91	0.69
26 05 19 16-0533	LF	20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	7.79	0.70
26 05 19 16-0534	LF	24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	9.46	0.72
26 05 19 16-0535	LF	26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	10.43	0.73
26 05 19 16-0536	LF	30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	12.18	0.76
26 05 19 16-0537		<b>#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0538	LF	2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.63	0.41
26 05 19 16-0539	LF	3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	1.74	0.41
26 05 19 16-0540	LF	4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene) .....	2.01	0.41
26 05 19 16-0541	LF	5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	3.48	0.55
26 05 19 16-0542	LF	6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	4.21	0.56
26 05 19 16-0543	LF	7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	4.45	0.58
26 05 19 16-0544	LF	8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.04	0.59
26 05 19 16-0545	LF	9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	5.43	0.61
26 05 19 16-0546	LF	10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	6.08	0.62
26 05 19 16-0547	LF	12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	6.71	0.64
26 05 19 16-0548	LF	14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	7.43	0.66
26 05 19 16-0549	LF	16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	8.98	0.67
26 05 19 16-0550	LF	20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	10.11	0.70
26 05 19 16-0551	LF	24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron) .....	11.95	0.72



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0552	LF			30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.18	0.76
<b>26 05 19 16-0553</b>				<b>#12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0554	LF			2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.90	0.41
26 05 19 16-0555	LF			3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.11	0.41
26 05 19 16-0556	LF			4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.31	0.41
26 05 19 16-0557	LF			5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.02	0.55
26 05 19 16-0558	LF			6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.69	0.56
26 05 19 16-0559	LF			7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.37	0.58
26 05 19 16-0560	LF			8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.12	0.59
26 05 19 16-0561	LF			9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.65	0.61
26 05 19 16-0562	LF			10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.56	0.62
26 05 19 16-0563	LF			12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.64	0.64
26 05 19 16-0564	LF			14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.63	0.66
26 05 19 16-0565	LF			16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.64	0.67
26 05 19 16-0566	LF			18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.10	0.69
26 05 19 16-0567	LF			20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.84	0.70
26 05 19 16-0568	LF			24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.61	0.72
26 05 19 16-0569	LF			26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.40	0.73
26 05 19 16-0570	LF			28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.97	0.75
26 05 19 16-0571	LF			30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.59	0.76
<b>26 05 19 16-0572</b>				<b>#10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0573	LF			2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.19	0.51
26 05 19 16-0574	LF			3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.37	0.51
26 05 19 16-0575	LF			4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.55	0.51
26 05 19 16-0576	LF			5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.55
26 05 19 16-0577	LF			6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.79	0.56
26 05 19 16-0578	LF			7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.84	0.58
26 05 19 16-0579	LF			10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.86	0.62
26 05 19 16-0580	LF			12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.19	0.64
26 05 19 16-0581	LF			16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.06	0.67
26 05 19 16-0582	LF			20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.11	0.70
<b>26 05 19 16-0583</b>				<b>#8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0584	LF			3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.53	0.61
26 05 19 16-0585	LF			4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.94	0.71
26 05 19 16-0586	LF			5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.83	0.71
<b>26 05 19 16-0587</b>				<b>#6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0588	LF			3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.60	0.71
26 05 19 16-0589	LF			4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.97	0.81
26 05 19 16-0590	LF			5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.57	1.02
<b>26 05 19 16-0591</b>				<b>#4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0592	LF			3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.59	1.02
26 05 19 16-0593	LF			4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.65	1.12
26 05 19 16-0594	LF			5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.10	1.22
<b>26 05 19 16-0595</b>				<b>#2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0502)</small>		
26 05 19 16-0596	LF			3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.68	2.03
26 05 19 16-0597	LF			4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.98	2.54
26 05 19 16-0598	LF			5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	24.04	3.36
<b>26 05 19 16-0599</b>				<b>300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0480)</small>		



**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0600 #18, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0599)</small>		
26 05 19 16-0601 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.51	0.41
26 05 19 16-0602 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.68	0.41
26 05 19 16-0603 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	2.01	0.41
<b>26 05 19 16-0604 #16, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0599)</small>		
26 05 19 16-0605 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.61	0.41
26 05 19 16-0606 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.89	0.41
26 05 19 16-0607 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	2.01	0.41
<b>26 05 19 16-0608 #14, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0599)</small>		
26 05 19 16-0609 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	2.29	0.41
26 05 19 16-0610 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	3.40	0.41
26 05 19 16-0611 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	4.38	0.51
<b>26 05 19 16-0612 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0480)</small>		
<b>26 05 19 16-0613 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0612)</small>		
26 05 19 16-0614 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	2.21	0.41
26 05 19 16-0615 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	2.67	0.41
26 05 19 16-0616 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	3.16	0.41
<b>26 05 19 16-0617 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0612)</small>		
26 05 19 16-0618 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	2.37	0.41
26 05 19 16-0619 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	2.85	0.41
26 05 19 16-0620 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	3.61	0.41
26 05 19 16-0621 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	3.89	0.51
<b>26 05 19 16-0622 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0612)</small>		
26 05 19 16-0623 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	2.96	0.41
26 05 19 16-0624 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	3.58	0.41
26 05 19 16-0625 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	4.00	0.51
<b>26 05 19 16-0626 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0612)</small>		
26 05 19 16-0627 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	3.54	0.41
26 05 19 16-0628 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	4.08	0.41
26 05 19 16-0629 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	4.55	0.51
<b>26 05 19 16-0630 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0612)</small>		
26 05 19 16-0631 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	4.06	0.51
26 05 19 16-0632 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	4.54	0.51
26 05 19 16-0633 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III) .....	5.02	0.51
<b>26 05 19 16-0634 Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0479)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
<b>26 05 19 16-0635 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0634)</small>		
<b>26 05 19 16-0636 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0635)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0637 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	1.63	0.41
26 05 19 16-0638 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	1.82	0.41
26 05 19 16-0639 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	2.83	0.51
<b>26 05 19 16-0640 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b>		
<small>(26 05 19 16-0635)</small>		
26 05 19 16-0641 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	2.20	0.41
26 05 19 16-0642 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	2.55	0.41
26 05 19 16-0643 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	3.72	0.51
<b>26 05 19 16-0644 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b>		
<small>(26 05 19 16-0635)</small>		
26 05 19 16-0645 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	2.78	0.41
26 05 19 16-0646 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	3.24	0.41
26 05 19 16-0647 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	4.10	0.51
<b>26 05 19 16-0648 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b>		
<small>(26 05 19 16-0635)</small>		
26 05 19 16-0649 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	3.54	0.51
26 05 19 16-0650 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	4.10	0.51
26 05 19 16-0651 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord .....	4.40	0.51
<b>26 05 19 16-0652 Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0479)</small>		
<small>Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.</small>		
<b>26 05 19 16-0653 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0652)</small>		
<b>26 05 19 16-0654 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0653)</small>		
26 05 19 16-0655 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	4.99	0.61
26 05 19 16-0656 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	5.37	0.71
26 05 19 16-0657 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	6.39	0.71
<b>26 05 19 16-0658 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0653)</small>		
26 05 19 16-0659 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	5.35	0.71
26 05 19 16-0660 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	6.39	0.81
26 05 19 16-0661 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	7.96	1.02
<b>26 05 19 16-0662 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0653)</small>		
26 05 19 16-0663 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	7.39	0.71
26 05 19 16-0664 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	8.74	0.81
26 05 19 16-0665 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron) .....	11.26	1.02
<b>26 05 19 16-0666 Cord Grips, Cable Reels, Extension Cords, And Accessories</b> <small>(26 05 19 16-0478)</small>		
<b>26 05 19 16-0667 Cord Grips</b> <small>(26 05 19 16-0666)</small>		
26 05 19 16-0668 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel .....	63.76	
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		18.50
26 05 19 16-0669 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel .....	64.00	
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		18.50
<b>26 05 19 16-0670 Cable Reels</b> <small>(26 05 19 16-0666)</small>		
<small>Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0478 for cords.</small>		
26 05 19 16-0671 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A) .....	593.19	50.86
26 05 19 16-0672 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1) .....	1,649.11	50.86
26 05 19 16-0673 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K) .....	1,231.71	50.86
<b>26 05 19 16-0674 Extension Cords</b> <small>(26 05 19 16-0666)</small>		
26 05 19 16-0675 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord .....	127.32	
26 05 19 16-0676 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord .....	177.47	
<b>26 05 19 16-0677 Plugs And Connector Bodies</b> <small>(26 05 19 16-0666)</small>		
<small>Note: Up to 277 volt</small>		
<b>26 05 19 16-0678 NEMA Twist-Lock Plugs</b> <small>(26 05 19 16-0677)</small>		
26 05 19 16-0679 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C) .....	70.68	
26 05 19 16-0680 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK) .....	72.21	
26 05 19 16-0681 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C) .....	65.79	
26 05 19 16-0682 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331) .....	70.49	
26 05 19 16-0683 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411) .....	92.54	
26 05 19 16-0684 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441) .....	98.52	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0685	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	104.36	
26 05 19 16-0686	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	93.43	
26 05 19 16-0687	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	107.79	
26 05 19 16-0688	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761) .....	110.59	
26 05 19 16-0689	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	114.15	
<b>26 05 19 16-0690</b>			<b>NEMA Twist-Lock Connector Bodies (26 05 19 16-0677)</b>		
26 05 19 16-0691	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C) .....	75.01	
26 05 19 16-0692	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C) .....	80.41	
26 05 19 16-0693	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C) .....	69.03	
26 05 19 16-0694	EA		20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK) .....	93.43	
26 05 19 16-0695	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK) .....	109.19	
26 05 19 16-0696	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	116.81	
26 05 19 16-0697	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK) .....	142.48	
26 05 19 16-0698	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK) .....	136.00	
26 05 19 16-0699	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK) .....	168.15	
26 05 19 16-0700	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	176.67	
26 05 19 16-0701	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK) .....	167.39	
<b>26 05 19 16-0702</b>			<b>Watertight Pin And Sleeve Plug (26 05 19 16-0677)</b>		
26 05 19 16-0703	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W) .....	199.96	30.52
26 05 19 16-0704	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W) .....	201.98	30.52
26 05 19 16-0705	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W) .....	217.62	30.52
26 05 19 16-0706	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W) .....	219.00	33.57
26 05 19 16-0707	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W) .....	215.97	33.57
26 05 19 16-0708	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W) .....	216.87	33.57
26 05 19 16-0709	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W) .....	301.92	37.54
26 05 19 16-0710	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W) .....	294.36	37.54
26 05 19 16-0711	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W) .....	326.83	37.54
26 05 19 16-0712	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W) .....	322.59	41.21
26 05 19 16-0713	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W) .....	309.47	41.21
26 05 19 16-0714	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W) .....	318.50	41.21
26 05 19 16-0715	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W) .....	409.48	48.83
26 05 19 16-0716	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W) .....	416.68	48.83
26 05 19 16-0717	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W) .....	399.62	48.83
26 05 19 16-0718	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W) .....	454.66	54.33
26 05 19 16-0719	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W) .....	443.46	54.33
26 05 19 16-0720	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W) .....	448.30	54.33
26 05 19 16-0721	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W) .....	559.88	61.04
26 05 19 16-0722	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W) .....	587.68	61.04
26 05 19 16-0723	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W) .....	575.59	67.14
26 05 19 16-0724	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W) .....	566.10	67.14
26 05 19 16-0725	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W) .....	571.23	67.14
<b>26 05 19 16-0726</b>			<b>Watertight Pin And Sleeve Connector (26 05 19 16-0677)</b>		
26 05 19 16-0727	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	211.55	30.52
26 05 19 16-0728	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W) .....	212.94	30.52
26 05 19 16-0729	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W) .....	248.97	30.52
26 05 19 16-0730	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W) .....	248.20	33.57
26 05 19 16-0731	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W) .....	244.54	33.57
26 05 19 16-0732	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W) .....	247.85	33.57
26 05 19 16-0733	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W) .....	308.84	37.54
26 05 19 16-0734	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W) .....	308.77	37.54
26 05 19 16-0735	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W) .....	321.19	37.54
26 05 19 16-0736	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W) .....	319.22	41.21
26 05 19 16-0737	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W) .....	321.78	41.21
26 05 19 16-0738	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W) .....	319.08	41.21
26 05 19 16-0739	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W) .....	480.49	48.83
26 05 19 16-0740	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W) .....	465.28	48.83
26 05 19 16-0741	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W) .....	456.21	48.83
26 05 19 16-0742	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W) .....	496.92	54.33
26 05 19 16-0743	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W) .....	510.15	54.33
26 05 19 16-0744	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W) .....	511.12	54.33
26 05 19 16-0745	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W) .....	637.78	61.04
26 05 19 16-0746	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W) .....	655.23	61.04
26 05 19 16-0747	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W) .....	708.44	67.14
26 05 19 16-0748	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W) .....	684.47	67.14
26 05 19 16-0749	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W) .....	692.64	67.14
<b>26 05 19 16-0750</b>			<b>Accessories (26 05 19 16-0666)</b>		
26 05 19 16-0751	EA		1/2" Straight Steel Cord Connector .....	42.29	10.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 05 19 16-0752	EA		1/2" Straight Nylon Cord Connector .....	26.23	7.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.58	
26 05 19 16-0753	EA		1/2" 90 Degree Steel Cord Connector .....	49.02	12.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0754 EA 1/2" 90 Degree Nylon Cord Connector.....	32.14	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0755 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	48.48	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0756 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	80.04	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 05 19 16-0757 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	31.72	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0758 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	51.02	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0759 EA 3/4" Straight Steel Cord Connector.....	43.83	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0760 EA 3/4" Straight Nylon Cord Connector.....	27.00	7.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 05 19 16-0761 EA 3/4" 90 Degree Steel Cord Connector.....	53.84	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0762 EA 3/4" 90 Degree Nylon Cord Connector.....	34.55	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0763 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	55.18	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 05 19 16-0764 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	65.44	17.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.68	
26 05 19 16-0765 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	38.43	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0766 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	46.36	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 05 19 16-0767 EA 1" Straight Steel Cord Connector.....	53.74	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0768 EA 1" Straight Nylon Cord Connector.....	31.96	7.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 05 19 16-0769 EA 1" 90 Degree Steel Cord Connector.....	60.39	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0770 EA 1" 90 Degree Nylon Cord Connector.....	37.82	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 19 16-0771 EA 1" Straight Steel Cord Connector With Strain Relief Mesh.....	65.58	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 05 19 16-0772 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	72.31	17.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.68	
26 05 19 16-0773 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh.....	43.71	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 19 16-0774 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	50.83	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	

**26 05 23 Control-Voltage Electrical Power Cables** (26 05)

- 26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)
- 26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volts (26 05 23 00-0001)

Note: For surface or conduit installation.

26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable.....	392.51	118.48
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable.....	445.61	124.80
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable.....	482.17	131.96
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable.....	572.57	137.53
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable.....	599.74	144.03
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable.....	658.39	150.02
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable.....	709.54	156.02
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable.....	768.63	162.25
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable.....	825.16	167.12
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable.....	423.83	118.48
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable.....	501.49	124.80
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable.....	570.83	131.96
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable.....	609.18	137.53
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable.....	673.26	144.03
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable.....	692.14	150.02
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable.....	761.05	156.02
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable.....	892.24	162.25
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable.....	977.62	167.12

**26 05 26 Grounding And Bonding For Electrical Systems** (26 05)

- 26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)
- 26 05 26 00-0002 Single Conductor (26 05 26 00-0001)
- 26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor.....	467.61	190.45
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor.....	598.28	190.45
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor.....	729.74	229.41
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor.....	964.58	229.41
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor.....	1,260.99	277.02
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor.....	1,922.88	277.02

**26 Electrical****26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor .....	2,209.69	333.29
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor .....	2,586.58	333.29
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor .....	3,569.80	419.86
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor .....	4,373.80	419.86
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor .....	4,675.44	558.37
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor .....	5,943.77	558.37
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor .....	5,986.82	644.93
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor .....	7,971.92	644.93
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor .....	10,820.25	796.43
<b>26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor .....	810.56	259.70
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor .....	881.45	259.70
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor .....	1,113.21	259.70
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor .....	1,280.61	450.16
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor .....	1,699.72	450.16
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor .....	2,359.34	450.16
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor .....	2,830.30	787.78
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor .....	3,431.85	787.78
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor .....	3,989.53	787.78
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor .....	4,711.69	787.78
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor .....	5,522.10	1,030.17
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor .....	6,624.30	1,030.17
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor .....	7,678.37	1,030.17
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor .....	9,075.41	1,601.52
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor .....	11,741.58	1,601.52
<b>26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor .....	467.61	190.45
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor .....	598.28	190.45
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor .....	729.74	229.41
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor .....	964.58	229.41
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor .....	1,260.99	277.02
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor .....	1,922.88	277.02
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor .....	2,586.58	333.29
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor .....	4,675.44	441.50
<b>26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor .....	549.36	229.41
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor .....	600.01	229.41
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor .....	678.24	277.02
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor .....	836.50	277.02
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor .....	953.08	333.29
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor .....	1,091.46	333.29
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor .....	1,243.31	419.86
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor .....	1,423.56	419.86
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor .....	1,697.05	558.37
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor .....	1,893.25	558.37
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor .....	2,224.56	644.93
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor .....	2,509.00	644.93
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor .....	2,959.22	796.43
<b>26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor .....	549.36	229.41
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor .....	600.01	229.41
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor .....	678.24	277.02
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor .....	836.50	277.02
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor .....	918.14	441.50
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor .....	1,091.46	441.50
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor .....	1,156.77	419.86
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor .....	1,249.30	419.86
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor .....	1,697.05	558.37
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor .....	1,893.25	558.37
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor .....	2,224.56	644.93
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor .....	2,509.00	644.93
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor .....	2,959.22	796.43
<b>26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	2.23	0.70
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	2.46	0.77
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	2.89	0.88
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	2.92	0.90
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	3.07	0.94





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0078	<b>Copper Flexible Braid Connector Jumper Strap</b> <small>(26 05 26 00-0001)</small>	Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079	EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	110.91	25.44	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.26		
26 05 26 00-0080	EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	188.66	30.52	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31		
26 05 26 00-0081	EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	239.75	30.52	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31		
26 05 26 00-0082	EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	290.14	30.52	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31		
26 05 26 00-0083	EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	253.38	33.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.89		
26 05 26 00-0084	EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	326.89	33.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.89		
26 05 26 00-0085	EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	390.75	33.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.89		
26 05 26 00-0086	EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	328.25	41.97	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.18		
26 05 26 00-0087	EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	394.83	50.86	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52		
26 05 26 00-0088	<b>Bonding Jumper For Metallic Conduit</b> <small>(26 05 26 00-0001)</small>			
26 05 26 00-0089	EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	151.80	55.95	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.79		
26 05 26 00-0090	EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	187.01	55.95	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.13		
26 05 26 00-0091	EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	270.34	86.48	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.24		
26 05 26 00-0092	EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	395.75	86.48	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.52		
26 05 26 00-0093	<b>Ground Rods</b> <small>(26 05 26)</small>			
26 05 26 00-0094	<b>Copper-Clad Ground Rods</b> <small>(26 05 26 00-0093)</small>			
26 05 26 00-0095	EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	87.95	76.30	
26 05 26 00-0096	EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	91.85	76.30	
26 05 26 00-0097	EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	107.59	76.30	
26 05 26 00-0098	EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	103.59	76.30	
26 05 26 00-0099	EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	108.46	76.30	
26 05 26 00-0100	EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	128.13	76.30	
26 05 26 00-0101	<b>Copper Grounding Shaft</b> <small>(26 05 26 00-0093)</small>			
26 05 26 00-0102	EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	196.42	76.30	
26 05 26 00-0103	EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	239.07	76.30	
26 05 26 00-0104	EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	343.93	76.30	
26 05 26 00-0105	<b>Ground Access Wells</b> <small>(26 05 26 00-0093)</small>			
26 05 26 00-0106	<b>Precast Ground Access Wells</b> <small>(26 05 26 00-0105)</small>			
26 05 26 00-0107	EA 8" Diameter x 24" Deep Precast Ground Access Well.....	188.88		
	Note: With cast iron grate.			
26 05 26 00-0108	EA 10" Diameter x 24" Deep Precast Ground Access Well.....	197.33		
	Note: With cast iron grate.			
26 05 26 00-0109	EA 12" Diameter x 24" Deep Precast Ground Access Well.....	525.84		
	Note: With cast iron grate.			
26 05 26 00-0110	EA 18" Diameter x 24" Deep Precast Ground Access Well.....	534.28		
	Note: With cast iron grate.			
26 05 26 00-0111	<b>Polyvinyl Chloride (PVC) Ground Access Well</b> <small>(26 05 26 00-0105)</small>			
26 05 26 00-0112	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	425.32		
	Note: Schedule 40 with cast iron grated cover.			
26 05 26 00-0113	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	499.88		
	Note: Schedule 40 with cast iron grated cover.			
26 05 26 00-0114	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	928.54		
	Note: Schedule 40 with cast iron grated cover.			
26 05 26 00-0115	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	406.53		
	Note: Schedule 40 with flat steel cover.			
26 05 26 00-0116	EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	310.06		
	Note: Schedule 40 with flat steel cover.			
26 05 26 00-0117	EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	890.47		
	Note: Schedule 40 with flat steel cover.			
26 05 26 00-0118	EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well.....	227.68		
	Note: Schedule 40 with flat steel cover.			
26 05 26 00-0119	EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well.....	243.52		
	Note: Schedule 40 with flat steel cover.			



**26 Electrical****26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well ..... Note: Schedule 40 with flat steel cover.	257.27	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....	175.10	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....	258.67	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well ..... Note: Schedule 40 with flat steel cover.	456.34	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well ..... Note: Schedule 40 with flat steel cover.	606.26	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well ..... Note: Schedule 40 with plastic cover.	367.30	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well ..... Note: Schedule 40 with plastic cover.	533.48	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well ..... Note: With cast iron grate, heavy duty.	564.58	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well ..... Note: With cast iron grate, heavy duty.	687.70	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well ..... Note: With cast iron grate, heavy duty.	304.30	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well ..... Note: With cast iron grate, heavy duty.	531.67	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well ..... Note: With cast iron grate, heavy duty.	572.37	
<b>26 05 26 00-0132 Polymer Concrete Ground Access Well (26 05 26 00-0105)</b>		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well.....	335.08	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well .....	366.14	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well.....	368.25	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well .....	402.37	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well.....	402.65	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well .....	440.12	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well.....	531.79	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well .....	582.66	
<b>26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)</b>		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well ..... Note: With cover.	130.18	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well ..... Note: With cover.	179.33	
<b>26 05 26 00-0144 Ground Rod Clamps And Fittings (26 05 26)</b>		
<b>26 05 26 00-0145 Bronze Ground Rod Clamp (26 05 26 00-0144)</b>		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp.....	20.78	11.50
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp.....	21.77	11.50
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp.....	23.16	11.50
<b>26 05 26 00-0149 Bronze Pipe Clamps (26 05 26 00-0144)</b>		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps .....	27.43	19.12
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe .....	34.94	22.89
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe .....	52.21	26.76
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe .....	63.81	34.38
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe .....	97.77	49.65
<b>26 05 26 00-0155 Grounding Fittings (26 05 26 00-0144)</b>		
<b>26 05 26 00-0156 Embedded Fittings (26 05 26 00-0155)</b>		
26 05 26 00-0157 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	139.97	
26 05 26 00-0158 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded .....	148.88	
26 05 26 00-0159 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded .....	164.68	
26 05 26 00-0160 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	134.91	
26 05 26 00-0161 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	161.64	
26 05 26 00-0162 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	189.65	
26 05 26 00-0163 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	213.86	
<b>26 05 26 00-0164 Ground Rod Receptacle (26 05 26 00-0155)</b>		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle .....	302.37	105.80
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle .....	316.21	108.79
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle .....	330.36	111.74
<b>26 05 26 00-0168 Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)</b>		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit.....	67.64	25.44
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit .....	66.21	25.44
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit.....	75.13	25.44
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit .....	76.96	25.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 26 00-0173</b> <b>Insulated Grounding Bars</b> <small>(26 05 26 00-0144)</small>		
26 05 26 00-0174    EA    1/2" x 4" x 10" Insulated Ground Bar.....	284.35	25.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	45.78	
26 05 26 00-0175    EA    Insulated Ground Bar SK 9560 1/2" x 4" x 20" .....	298.82	25.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	45.78	
<b>26 05 26 00-0176</b> <b>Ground Conductor Bonding</b> <small>(26 05 26)</small>		
<b>26 05 26 00-0177</b> <b>Ground Conductor Bonding</b> <small>(26 05 26 00-0176)</small>		
<b>26 05 26 00-0178</b> <b>Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld</b> <small>(26 05 26 00-0177)</small>		
26 05 26 00-0179    EA    Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	113.13	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0180    EA    #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	123.30	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0181    EA    1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	133.47	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0182    EA    250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel .....	194.51	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
<b>26 05 26 00-0183</b> <b>Tee, Wye Or Cross Cadweld</b> <small>(26 05 26 00-0177)</small>		
26 05 26 00-0184    EA    Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	128.38	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0185    EA    #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross .....	148.73	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0186    EA    1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross .....	184.34	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0187    EA    250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross .....	225.03	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
<b>26 05 26 00-0188</b> <b>Grounding Equipment</b> <small>(26 05 26)</small>		
<b>26 05 26 00-0189</b> <b>Special Grounding Equipment</b> <small>(26 05 26 00-0188)</small>		
<b>26 05 26 00-0190</b> <b>Ground Reels And Ground Bus</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0191    EA    Ground Reel With 50' Of Galvanized Steel Cable.....	668.93	
<b>26 05 26 00-0192</b> <b>Copper Bars</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0193    LF    1/4" x 2" Copper Bar .....	38.58	
<b>26 05 26 00-0194</b> <b>Phenolic Insulators</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0195    EA    2" x 2" x 1" Long Phenolic Insulators .....	27.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	6.11	
<b>26 05 26 00-0196</b> <b>Grounding Studs</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0197    EA    Ball Grounding Stud.....	39.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	9.11	
<b>26 05 26 00-0198</b> <b>Equipment Ground Bar Kits</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0199    EA    Switch Rating 30 Ground Bar Kit .....	30.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	6.11	
26 05 26 00-0200    EA    Switch Rating 60 Ground Bar Kit .....	38.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	6.71	
26 05 26 00-0201    EA    Switch Rating 100 Ground Bar Kit .....	45.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.63	
26 05 26 00-0202    EA    Switch Rating 200 Ground Bar Kit.....	79.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	9.16	
<b>26 05 26 00-0203</b> <b>Panelboard Ground Bar Kits</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0204    EA    Panelboard Ground Bar Kit.....	115.27	7.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.63	
<b>26 05 26 00-0205</b> <b>Circuit Breaker Ground Bar Kits</b> <small>(26 05 26 00-0189)</small>		
26 05 26 00-0206    EA    3 Circuit, Ground Bar Kit .....	25.33	4.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	4.58	
26 05 26 00-0207    EA    4 Circuit, Ground Bar Kit .....	24.86	4.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	4.58	
26 05 26 00-0208    EA    7 Circuit, Ground Bar Kit .....	25.64	4.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	4.58	
26 05 26 00-0209    EA    12 Circuit, Ground Bar Kit.....	29.06	5.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	5.19	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.11 5.80	5.80
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.55 6.41	6.41
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.83 7.32	7.32
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.22 8.54	8.55
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.19 6.41	6.41
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.71 7.32	7.32
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.26 8.54	8.55

**26 05 29 Hangers And Supports For Electrical Systems (26 05)**

26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001) Note: Excludes fasteners and accessories.		
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	16.11	5.57
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	16.43	5.57
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	7.29	2.09
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	29.94	5.57
26 05 29 00-0010 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	33.04	5.57
26 05 29 00-0011 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	44.07	5.57
26 05 29 00-0012 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	50.29	5.57
26 05 29 00-0013 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	21.12	2.10
26 05 29 00-0014 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	24.22	2.10
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....	43.35	5.57
26 05 29 00-0017 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....	70.91	5.57
26 05 29 00-0018 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....	34.53	2.10
26 05 29 00-0019 12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	16.87	5.57
26 05 29 00-0022 EA Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	16.61	5.57
26 05 29 00-0023 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	16.45	5.57
26 05 29 00-0024 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	17.94	5.57
26 05 29 00-0025 EA >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	17.43	5.57
26 05 29 00-0026 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	17.09	5.57
26 05 29 00-0027 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	8.05	2.09
26 05 29 00-0028 LF >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	7.79	2.09
26 05 29 00-0029 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	7.63	2.09
26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	34.07	5.57
26 05 29 00-0032 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	39.43	5.57
26 05 29 00-0033 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	52.35	5.57
26 05 29 00-0034 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	63.07	5.57
26 05 29 00-0035 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	25.25	2.09
26 05 29 00-0036 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	30.61	2.09
26 05 29 00-0037 Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038 Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings .....	3.61	0.51
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings .....	11.21	5.10
26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel .....	18.21	5.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0044</b> Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
<b>26 05 29 00-0045</b> Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	3.95	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	3.93	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	4.59	
<b>26 05 29 00-0049</b> Stainless Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	15.04	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	22.33	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	28.50	
<b>26 05 29 00-0053</b> 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
<b>26 05 29 00-0054</b> Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	3.85	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	3.36	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	5.18	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	5.12	
<b>26 05 29 00-0059</b> Stainless Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	8.65	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	10.79	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	9.17	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	12.98	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	11.87	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	21.83	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	12.48	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	18.05	
<b>26 05 29 00-0068</b> 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
<b>26 05 29 00-0069</b> Steel 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0068)</small>		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting .....	7.05	
<b>26 05 29 00-0071</b> U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
<b>26 05 29 00-0072</b> Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting .....	3.04	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting .....	3.29	
<b>26 05 29 00-0075</b> Stainless Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting .....	17.93	
<b>26 05 29 00-0077</b> Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
<b>26 05 29 00-0078</b> Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting .....	7.21	
<b>26 05 29 00-0080</b> Stainless Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting .....	34.77	
<b>26 05 29 00-0082</b> Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex screw and nut.		
<b>26 05 29 00-0083</b> Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	3.78	1.52
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	3.79	1.52
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	3.85	1.52
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	4.94	2.04
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	5.23	2.04
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	5.26	2.04
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	6.50	2.55
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	6.76	2.55
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	7.01	2.55
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....	7.10	2.55

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0094			<b>304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0082)</small> Note: Includes hex screw and nut.		
26 05 29 00-0095	EA		1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.97	1.52
26 05 29 00-0096	EA		3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.78	1.52
26 05 29 00-0097	EA		1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.60	1.52
26 05 29 00-0098	EA		1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.68	2.04
26 05 29 00-0099	EA		1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.93	2.04
26 05 29 00-0100	EA		2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.53	2.04
26 05 29 00-0101	EA		2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.25	2.55
26 05 29 00-0102	EA		3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.26	2.55
26 05 29 00-0103	EA		3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	19.13	2.55
26 05 29 00-0104	EA		4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.31	2.55
26 05 29 00-0105			<b>316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0082)</small> Note: Includes hex screw and nut.		
26 05 29 00-0106	EA		1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.47	1.52
26 05 29 00-0107	EA		3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.62	1.52
26 05 29 00-0108	EA		1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.94	1.52
26 05 29 00-0109	EA		1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.83	2.04
26 05 29 00-0110	EA		1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.79	2.04
26 05 29 00-0111	EA		2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.99	2.04
26 05 29 00-0112	EA		2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.78	2.55
26 05 29 00-0113	EA		3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.80	2.55
26 05 29 00-0114	EA		3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	26.08	2.55
26 05 29 00-0115	EA		4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.53	2.55
26 05 29 00-0116			<b>Beam Clamps, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>		
26 05 29 00-0117			<b>Steel Beam Clamps, Unistrut Channel Fittings</b> <small>(26 05 29 00-0116)</small>		
26 05 29 00-0118	EA		Set Screw Beam Clamp, Steel Unistrut Channel Fitting.....	26.15	9.29
26 05 29 00-0119	EA		"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings.....	20.34	9.29
26 05 29 00-0120	EA		"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting.....	25.56	9.29
26 05 29 00-0121			<b>304 Stainless Steel Beam Clamps, Unistrut Channel Fittings</b> <small>(26 05 29 00-0116)</small>		
26 05 29 00-0122	EA		"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	42.67	9.29
26 05 29 00-0123			<b>Square Washers For Unistrut Channel</b> <small>(26 05 29 00-0037)</small>		
26 05 29 00-0124			<b>Steel Square Washers For Unistrut Channel</b> <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125	EA		1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	2.88	
26 05 29 00-0126			<b>Stainless Steel Square Washers For Unistrut Channel</b> <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127	EA		1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	4.31	
26 05 29 00-0128	EA		1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	5.42	
26 05 29 00-0129			<b>Strut Braces, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130	EA		16" Diagonal Steel Bar Brace For Unistrut Channel.....	18.33	
26 05 29 00-0131			<b>Trolley Hangers, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132	EA		Steel Trolley Track Hanger For Unistrut Channel.....	23.13	
26 05 29 00-0133			<b>Lock Nuts With Spring For Unistrut Channel</b> <small>(26 05 29 00-0037)</small> Note: Includes hex bolt.		
26 05 29 00-0134			<b>Steel Lock Nuts With Spring For Unistrut Channel</b> <small>(26 05 29 00-0133)</small> Note: Includes hex bolt.		
26 05 29 00-0135	EA		1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	6.10	
26 05 29 00-0136	EA		3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	6.45	
26 05 29 00-0137	EA		1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	6.72	
26 05 29 00-0138	EA		5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	8.16	
26 05 29 00-0139			<b>Stainless Steel Lock Nuts With Spring For Unistrut Channel</b> <small>(26 05 29 00-0133)</small> Note: Includes hex bolt.		
26 05 29 00-0140	EA		1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	12.35	
26 05 29 00-0141	EA		3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	13.11	
26 05 29 00-0142	EA		1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	18.31	
26 05 29 00-0143	EA		5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	30.91	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small> Note: Includes hex bolt.		
26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small> Note: Includes hex bolt.		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel .....	6.11	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel .....	6.50	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel .....	6.74	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel .....	8.57	
26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small> Note: Includes hex bolt.		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	9.01	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	10.75	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	11.66	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	30.12	
26 05 29 00-0155 Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156 Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157 Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158 EA 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted .....	362.72	61.04
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted .....	91.56	20.35
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted .....	231.57	50.86
26 05 29 00-0161 Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162 Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate .....	307.75	76.30
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate .....	828.49	76.30
26 05 29 00-0165 Supports <small>(26 05 29)</small>		
26 05 29 00-0166 One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap .....	3.63	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.02	
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap .....	3.67	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.02	
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap .....	3.88	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.04	
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap .....	4.04	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.06	
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap .....	4.15	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.07	
26 05 29 00-0172 EA 2", One Hole Steel Conduit Strap .....	4.80	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.13	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap.....	5.47	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.22	
			<i>For &gt;100 To 250, Deduct</i>	-0.44	
			<i>For &gt;250 To 500, Deduct</i>	-0.82	
			<i>For &gt;500, Deduct</i>	-1.20	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap.....	5.69	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.22	
			<i>For &gt;100 To 250, Deduct</i>	-0.45	
			<i>For &gt;250 To 500, Deduct</i>	-0.83	
			<i>For &gt;500, Deduct</i>	-1.22	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap.....	6.79	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.25	
			<i>For &gt;100 To 250, Deduct</i>	-0.50	
			<i>For &gt;250 To 500, Deduct</i>	-0.92	
			<i>For &gt;500, Deduct</i>	-1.33	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap.....	7.67	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.27	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-0.98	
			<i>For &gt;500, Deduct</i>	-1.42	
<b>26 05 29 00-0177</b>			<b>One Hole Iron Conduit Straps</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap.....	3.73	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.17	
			<i>For &gt;100 To 250, Deduct</i>	-0.35	
			<i>For &gt;250 To 500, Deduct</i>	-0.69	
			<i>For &gt;500, Deduct</i>	-1.03	
26 05 29 00-0179	EA		3/4", One Hole Iron Conduit Strap.....	3.84	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.70	
			<i>For &gt;500, Deduct</i>	-1.04	
26 05 29 00-0180	EA		1", One Hole Iron Conduit Strap.....	4.02	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.71	
			<i>For &gt;500, Deduct</i>	-1.05	
26 05 29 00-0181	EA		1-1/4", One Hole Iron Conduit Strap.....	4.48	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.19	
			<i>For &gt;100 To 250, Deduct</i>	-0.39	
			<i>For &gt;250 To 500, Deduct</i>	-0.74	
			<i>For &gt;500, Deduct</i>	-1.10	
26 05 29 00-0182	EA		1-1/2", One Hole Iron Conduit Strap.....	4.66	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.20	
			<i>For &gt;100 To 250, Deduct</i>	-0.40	
			<i>For &gt;250 To 500, Deduct</i>	-0.76	
			<i>For &gt;500, Deduct</i>	-1.12	
26 05 29 00-0183	EA		2", One Hole Iron Conduit Strap.....	5.82	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.23	
			<i>For &gt;100 To 250, Deduct</i>	-0.45	
			<i>For &gt;250 To 500, Deduct</i>	-0.84	
			<i>For &gt;500, Deduct</i>	-1.23	
26 05 29 00-0184	EA		2-1/2", One Hole Iron Conduit Strap.....	8.30	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.29	
			<i>For &gt;100 To 250, Deduct</i>	-0.58	
			<i>For &gt;250 To 500, Deduct</i>	-1.03	
			<i>For &gt;500, Deduct</i>	-1.48	
26 05 29 00-0185	EA		3", One Hole Iron Conduit Strap.....	10.37	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
			<i>For &gt;50 To 100, Deduct</i>	-0.34	
			<i>For &gt;100 To 250, Deduct</i>	-0.68	
			<i>For &gt;250 To 500, Deduct</i>	-1.19	
			<i>For &gt;500, Deduct</i>	-1.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap .....	13.40	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.41	
For >500, Deduct	-1.99	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap.....	25.52	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-3.20	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap.....	32.04	
For Work In Restricted Working Space, Add	0.98	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.88	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.81	
For >500, Deduct	-3.86	
<b>26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)</b>		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap.....	4.14	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.15	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap.....	4.22	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap.....	4.25	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap .....	4.30	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap .....	4.34	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.17	
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap.....	4.43	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.18	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap .....	4.93	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.23	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap.....	5.04	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.84	
For >500, Deduct	-1.24	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap .....	5.43	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.28	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap.....	5.70	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.30	
26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap.....	6.05	
For Work In Restricted Working Space, Add	1.10	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.12	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.91	
For >500, Deduct	-1.34	
<b>26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165)</b>		
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....	3.06	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.55	
For >500, Deduct	-0.81	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....	3.21	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.83	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....	3.36	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.57	
For >500, Deduct	-0.84	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer.....	3.92	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.61	
For >500, Deduct	-0.90	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer.....	4.38	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.95	
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....	4.85	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-0.99	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer.....	6.79	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.19	
26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer.....	9.11	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.00	
For >500, Deduct	-1.42	
26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer.....	11.36	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.35	
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.64	
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....	21.92	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.74	
For >50 To 100, Deduct	-0.61	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	39.76	
<i>For Work In Restricted Working Space, Add</i>	0.76	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.74	
<i>For &gt;50 To 100, Deduct</i>	-1.06	
<i>For &gt;100 To 250, Deduct</i>	-2.12	
<i>For &gt;250 To 500, Deduct</i>	-3.30	
<i>For &gt;500, Deduct</i>	-4.48	
<b>26 05 29 00-0213 Conduit Clips</b> <small>(26 05 29 00-0165)</small>		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	3.93	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.18	
<i>For &gt;100 To 250, Deduct</i>	-0.36	
<i>For &gt;250 To 500, Deduct</i>	-0.70	
<i>For &gt;500, Deduct</i>	-1.05	
26 05 29 00-0215 EA 3/4" Conduit Clip.....	3.93	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.18	
<i>For &gt;100 To 250, Deduct</i>	-0.36	
<i>For &gt;250 To 500, Deduct</i>	-0.70	
<i>For &gt;500, Deduct</i>	-1.05	
26 05 29 00-0216 EA 1" Conduit Clip.....	3.88	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.18	
<i>For &gt;100 To 250, Deduct</i>	-0.36	
<i>For &gt;250 To 500, Deduct</i>	-0.70	
<i>For &gt;500, Deduct</i>	-1.04	
26 05 29 00-0217 EA 1-1/4" Conduit Clip.....	4.00	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.18	
<i>For &gt;100 To 250, Deduct</i>	-0.36	
<i>For &gt;250 To 500, Deduct</i>	-0.71	
<i>For &gt;500, Deduct</i>	-1.05	
<b>26 05 29 00-0218 Bolt And Nut Conduit Clips</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	4.88	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.12	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.45	
<i>For &gt;250 To 500, Deduct</i>	-0.87	
<i>For &gt;500, Deduct</i>	-1.30	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....	5.01	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.12	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.45	
<i>For &gt;250 To 500, Deduct</i>	-0.88	
<i>For &gt;500, Deduct</i>	-1.32	
26 05 29 00-0221 EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	5.34	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.48	
<i>For &gt;250 To 500, Deduct</i>	-0.94	
<i>For &gt;500, Deduct</i>	-1.40	
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	5.41	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.49	
<i>For &gt;250 To 500, Deduct</i>	-0.95	
<i>For &gt;500, Deduct</i>	-1.41	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	5.91	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100 To 250, Deduct</i>	-0.51	
<i>For &gt;250 To 500, Deduct</i>	-0.98	
<i>For &gt;500, Deduct</i>	-1.46	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	6.37	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.25	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-1.05	
<i>For &gt;500, Deduct</i>	-1.55	
26 05 29 00-0225 EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....	6.81	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.25	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.08	
<i>For &gt;500, Deduct</i>	-1.60	
26 05 29 00-0226 EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....	11.44	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.37	
<i>For &gt;50 To 100, Deduct</i>	-0.41	
<i>For &gt;100 To 250, Deduct</i>	-0.83	
<i>For &gt;250 To 500, Deduct</i>	-1.49	
<i>For &gt;500, Deduct</i>	-2.16	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 29 00-0227	<b>Conduit Hanger From Flange, Wire Or Rod</b> (26 05 29 00-0165) Note: Bat wing.		
26 05 29 00-0228	EA 1/2", Conduit Hanger From Flange, Wire Or Rod.....	2.86	
	For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
	For >50 To 100, Deduct	-0.13	
	For >100 To 250, Deduct	-0.27	
	For >250 To 500, Deduct	-0.52	
	For >500, Deduct	-0.77	
26 05 29 00-0229	EA 3/4", Conduit Hanger From Flange, Wire Or Rod.....	2.89	
	For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
	For >50 To 100, Deduct	-0.13	
	For >100 To 250, Deduct	-0.27	
	For >250 To 500, Deduct	-0.52	
	For >500, Deduct	-0.78	
26 05 29 00-0230	EA 1", Conduit Hanger From Flange, Wire Or Rod.....	2.99	
	For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
	For >50 To 100, Deduct	-0.14	
	For >100 To 250, Deduct	-0.27	
	For >250 To 500, Deduct	-0.53	
	For >500, Deduct	-0.79	
26 05 29 00-0231	EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod.....	3.24	
	For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
	For >50 To 100, Deduct	-0.14	
	For >100 To 250, Deduct	-0.28	
	For >250 To 500, Deduct	-0.55	
	For >500, Deduct	-0.81	
26 05 29 00-0232	<b>Beam Flange Clamps</b> (26 05 29 00-0165) Note: For threaded rod, nut not required.		
26 05 29 00-0233	EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24).....	3.93	
	For >50 To 100, Deduct	-0.16	
	For >100 To 250, Deduct	-0.32	
	For >250 To 500, Deduct	-0.61	
	For >500, Deduct	-0.90	
26 05 29 00-0234	EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58).....	3.86	
	For >50 To 100, Deduct	-0.16	
	For >100 To 250, Deduct	-0.32	
	For >250 To 500, Deduct	-0.61	
	For >500, Deduct	-0.89	
26 05 29 00-0235	EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912).....	4.24	
	For >50 To 100, Deduct	-0.17	
	For >100 To 250, Deduct	-0.34	
	For >250 To 500, Deduct	-0.64	
	For >500, Deduct	-0.93	
26 05 29 00-0236	<b>T-Bar Support Clips</b> (26 05 29 00-0165)		
26 05 29 00-0237	EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	6.77	
	For >50 To 100, Deduct	-0.30	
	For >100 To 250, Deduct	-0.59	
	For >250 To 500, Deduct	-1.14	
	For >500, Deduct	-1.70	
26 05 29 00-0238	EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	6.47	
	For >50 To 100, Deduct	-0.29	
	For >100 To 250, Deduct	-0.58	
	For >250 To 500, Deduct	-1.12	
	For >500, Deduct	-1.67	
26 05 29 00-0239	EA 15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	2.30	
	For >50 To 100, Deduct	-0.09	
	For >100 To 250, Deduct	-0.18	
	For >250 To 500, Deduct	-0.33	
	For >500, Deduct	-0.48	
26 05 29 00-0240	EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	16.83	
	For >50 To 100, Deduct	-0.47	
	For >100 To 250, Deduct	-0.94	
	For >250 To 500, Deduct	-1.52	
	For >500, Deduct	-2.09	
26 05 29 00-0241	<b>Switch And Outlet Box Type Supports</b> (26 05 29 00-0165)		
26 05 29 00-0242	EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS).....	4.56	
	For >50 To 100, Deduct	-0.16	
	For >100 To 250, Deduct	-0.33	
	For >250 To 500, Deduct	-0.60	
	For >500, Deduct	-0.86	
26 05 29 00-0243	EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	3.94	
	For >50 To 100, Deduct	-0.15	
	For >100 To 250, Deduct	-0.30	
	For >250 To 500, Deduct	-0.55	
	For >500, Deduct	-0.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO) .....	4.47	
<i>For &gt;50 To 100, Deduct</i>	-0.16	
<i>For &gt;100 To 250, Deduct</i>	-0.33	
<i>For &gt;250 To 500, Deduct</i>	-0.59	
<i>For &gt;500, Deduct</i>	-0.85	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF).....	3.05	
<i>For &gt;50 To 100, Deduct</i>	-0.13	
<i>For &gt;100 To 250, Deduct</i>	-0.25	
<i>For &gt;250 To 500, Deduct</i>	-0.48	
<i>For &gt;500, Deduct</i>	-0.71	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI) .....	3.16	
<i>For &gt;50 To 100, Deduct</i>	-0.13	
<i>For &gt;100 To 250, Deduct</i>	-0.26	
<i>For &gt;250 To 500, Deduct</i>	-0.49	
<i>For &gt;500, Deduct</i>	-0.72	
<b>26 05 29 00-0247 Lighting Fixture Hanger</b> <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515) .....	4.68	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.44	
<i>For &gt;250 To 500, Deduct</i>	-0.86	
<i>For &gt;500, Deduct</i>	-1.28	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517) .....	13.92	
<i>For &gt;50 To 100, Deduct</i>	-0.45	
<i>For &gt;100 To 250, Deduct</i>	-0.90	
<i>For &gt;250 To 500, Deduct</i>	-1.55	
<i>For &gt;500, Deduct</i>	-2.21	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520).....	18.77	
<i>For &gt;50 To 100, Deduct</i>	-0.57	
<i>For &gt;100 To 250, Deduct</i>	-1.14	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.69	
<b>26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	3.78	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.34	
<i>For &gt;250 To 500, Deduct</i>	-0.67	
<i>For &gt;500, Deduct</i>	-0.99	
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	3.79	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.34	
<i>For &gt;250 To 500, Deduct</i>	-0.67	
<i>For &gt;500, Deduct</i>	-0.99	
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	3.85	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.35	
<i>For &gt;250 To 500, Deduct</i>	-0.67	
<i>For &gt;500, Deduct</i>	-1.00	
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	4.94	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.45	
<i>For &gt;250 To 500, Deduct</i>	-0.88	
<i>For &gt;500, Deduct</i>	-1.31	
<i>For Work In Restricted Working Space, Add</i>	1.22	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	5.23	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.47	
<i>For &gt;250 To 500, Deduct</i>	-0.90	
<i>For &gt;500, Deduct</i>	-1.34	
<i>For Work In Restricted Working Space, Add</i>	1.22	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	5.26	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.47	
<i>For &gt;250 To 500, Deduct</i>	-0.90	
<i>For &gt;500, Deduct</i>	-1.34	
<i>For Work In Restricted Working Space, Add</i>	1.22	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	6.49	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.58	
<i>For &gt;250 To 500, Deduct</i>	-1.12	
<i>For &gt;500, Deduct</i>	-1.67	
<i>For Work In Restricted Working Space, Add</i>	1.53	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	6.75	
<i>For &gt;50 To 100, Deduct</i>	-0.30	
<i>For &gt;100 To 250, Deduct</i>	-0.59	
<i>For &gt;250 To 500, Deduct</i>	-1.14	
<i>For &gt;500, Deduct</i>	-1.69	
<i>For Work In Restricted Working Space, Add</i>	1.53	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	7.00	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.72	
For Work In Restricted Working Space, Add	1.53	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	7.09	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.73	
For Work In Restricted Working Space, Add	1.53	
<b>26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	3.97	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.01	
For Work In Restricted Working Space, Add	0.92	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	3.95	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.01	
For Work In Restricted Working Space, Add	0.92	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	3.92	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.00	
For Work In Restricted Working Space, Add	0.92	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	5.17	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.90	
For >500, Deduct	-1.33	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	5.68	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.38	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....	5.71	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.39	
For Work In Restricted Working Space, Add	1.22	
<b>26 05 29 00-0269 "J" Type Conduit Hangers</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205) .....	17.31	
For >50 To 100, Deduct	-0.61	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-3.16	
For Work In Restricted Working Space, Add	2.14	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207) .....	17.49	
For >50 To 100, Deduct	-0.62	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-3.17	
For Work In Restricted Working Space, Add	2.14	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210) .....	18.66	
For >50 To 100, Deduct	-0.67	
For >100 To 250, Deduct	-1.34	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-3.49	
For Work In Restricted Working Space, Add	2.44	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212) .....	18.86	
For >50 To 100, Deduct	-0.67	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.43	
For >500, Deduct	-3.51	
For Work In Restricted Working Space, Add	2.44	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215) .....	20.01	
For >50 To 100, Deduct	-0.73	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-2.65	
For >500, Deduct	-3.83	
For Work In Restricted Working Space, Add	2.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	20.74	
<i>For &gt;50 To 100, Deduct</i>	-0.75	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-2.70	
<i>For &gt;500, Deduct</i>	-3.91	
<i>For Work In Restricted Working Space, Add</i>	2.75	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	32.10	
<i>For &gt;50 To 100, Deduct</i>	-1.06	
<i>For &gt;100 To 250, Deduct</i>	-2.11	
<i>For &gt;250 To 500, Deduct</i>	-3.68	
<i>For &gt;500, Deduct</i>	-5.25	
<i>For Work In Restricted Working Space, Add</i>	3.05	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	34.20	
<i>For &gt;50 To 100, Deduct</i>	-1.13	
<i>For &gt;100 To 250, Deduct</i>	-2.27	
<i>For &gt;250 To 500, Deduct</i>	-3.96	
<i>For &gt;500, Deduct</i>	-5.66	
<i>For Work In Restricted Working Space, Add</i>	3.36	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	36.86	
<i>For &gt;50 To 100, Deduct</i>	-1.23	
<i>For &gt;100 To 250, Deduct</i>	-2.45	
<i>For &gt;250 To 500, Deduct</i>	-4.29	
<i>For &gt;500, Deduct</i>	-6.13	
<i>For Work In Restricted Working Space, Add</i>	3.66	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	48.08	
<i>For &gt;50 To 100, Deduct</i>	-1.51	
<i>For &gt;100 To 250, Deduct</i>	-3.01	
<i>For &gt;250 To 500, Deduct</i>	-5.13	
<i>For &gt;500, Deduct</i>	-7.25	
<i>For Work In Restricted Working Space, Add</i>	3.66	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	52.78	
<i>For &gt;50 To 100, Deduct</i>	-1.65	
<i>For &gt;100 To 250, Deduct</i>	-3.30	
<i>For &gt;250 To 500, Deduct</i>	-5.61	
<i>For &gt;500, Deduct</i>	-7.92	
<i>For Work In Restricted Working Space, Add</i>	3.97	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	73.63	
<i>For &gt;50 To 100, Deduct</i>	-2.22	
<i>For &gt;100 To 250, Deduct</i>	-4.44	
<i>For &gt;250 To 500, Deduct</i>	-7.43	
<i>For &gt;500, Deduct</i>	-10.42	
<i>For Work In Restricted Working Space, Add</i>	4.58	
<b>26 05 29 00-0282 Between Studs Box Brackets</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A) .....	6.36	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.47	
<i>For &gt;250 To 500, Deduct</i>	-0.86	
<i>For &gt;500, Deduct</i>	-1.25	
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A) .....	7.51	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-0.95	
<i>For &gt;500, Deduct</i>	-1.36	
<i>For Work In Restricted Working Space, Add</i>	0.92	
<b>26 05 29 00-0285 Hangers And Brackets</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4T1) .....	2.46	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500, Deduct</i>	-0.65	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB) .....	2.40	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500, Deduct</i>	-0.65	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO) .....	2.40	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500, Deduct</i>	-0.65	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	3.08	
<i>For &gt;50 To 100, Deduct</i>	-0.13	
<i>For &gt;100 To 250, Deduct</i>	-0.26	
<i>For &gt;250 To 500, Deduct</i>	-0.48	
<i>For &gt;500, Deduct</i>	-0.71	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	3.10	
<i>For &gt;50 To 100, Deduct</i>	-0.13	
<i>For &gt;100 To 250, Deduct</i>	-0.26	
<i>For &gt;250 To 500, Deduct</i>	-0.49	
<i>For &gt;500, Deduct</i>	-0.72	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	3.02	
			<i>For &gt;50 To 100, Deduct</i>	-0.13	
			<i>For &gt;100 To 250, Deduct</i>	-0.25	
			<i>For &gt;250 To 500, Deduct</i>	-0.48	
			<i>For &gt;500, Deduct</i>	-0.71	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	3.08	
			<i>For &gt;50 To 100, Deduct</i>	-0.13	
			<i>For &gt;100 To 250, Deduct</i>	-0.26	
			<i>For &gt;250 To 500, Deduct</i>	-0.48	
			<i>For &gt;500, Deduct</i>	-0.71	
26 05 29 00-0293	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	3.10	
			<i>For &gt;50 To 100, Deduct</i>	-0.13	
			<i>For &gt;100 To 250, Deduct</i>	-0.26	
			<i>For &gt;250 To 500, Deduct</i>	-0.49	
			<i>For &gt;500, Deduct</i>	-0.72	
<b>26 05 29 00-0294</b>			<b>Clips And Accessories</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR).....	1.65	
			<i>For &gt;50 To 100, Deduct</i>	-0.07	
			<i>For &gt;100 To 250, Deduct</i>	-0.15	
			<i>For &gt;250 To 500, Deduct</i>	-0.28	
			<i>For &gt;500, Deduct</i>	-0.42	
26 05 29 00-0296	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....	1.68	
			<i>For &gt;50 To 100, Deduct</i>	-0.07	
			<i>For &gt;100 To 250, Deduct</i>	-0.15	
			<i>For &gt;250 To 500, Deduct</i>	-0.28	
			<i>For &gt;500, Deduct</i>	-0.42	
26 05 29 00-0297	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....	1.78	
			<i>For &gt;50 To 100, Deduct</i>	-0.08	
			<i>For &gt;100 To 250, Deduct</i>	-0.15	
			<i>For &gt;250 To 500, Deduct</i>	-0.29	
			<i>For &gt;500, Deduct</i>	-0.43	
26 05 29 00-0298	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32).....	1.99	
			<i>For &gt;50 To 100, Deduct</i>	-0.08	
			<i>For &gt;100 To 250, Deduct</i>	-0.16	
			<i>For &gt;250 To 500, Deduct</i>	-0.31	
			<i>For &gt;500, Deduct</i>	-0.45	
<b>26 05 29 00-0299</b>			<b>Wire Ties</b> <small>(26 05 29 00-0165)</small>		
			Note: Per hundred (C).		
26 05 29 00-0300	C		3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	24.51	
			<i>For Up To 0.1, Add</i>	21.23	
			<i>For &gt;0.1 To 0.25, Add</i>	10.62	
			<i>For &gt;0.25 To 0.75, Add</i>	5.31	
			<i>For &gt;2.0, Deduct</i>	-2.12	
			<i>For UV Black, Add</i>	0.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.37	
26 05 29 00-0301	C		4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	24.64	
			<i>For Up To 0.1, Add</i>	21.23	
			<i>For &gt;0.1 To 0.25, Add</i>	10.62	
			<i>For &gt;0.25 To 0.75, Add</i>	5.31	
			<i>For &gt;2.0, Deduct</i>	-2.12	
			<i>For UV Black, Add</i>	0.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.37	
26 05 29 00-0302	C		4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	24.72	
			<i>For Up To 0.1, Add</i>	21.23	
			<i>For &gt;0.1 To 0.25, Add</i>	10.62	
			<i>For &gt;0.25 To 0.75, Add</i>	5.31	
			<i>For &gt;2.0, Deduct</i>	-2.12	
			<i>For UV Black, Add</i>	0.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.37	
26 05 29 00-0303	C		5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	24.76	
			<i>For Up To 0.1, Add</i>	21.23	
			<i>For &gt;0.1 To 0.25, Add</i>	10.62	
			<i>For &gt;0.25 To 0.75, Add</i>	5.31	
			<i>For &gt;2.0, Deduct</i>	-2.12	
			<i>For UV Black, Add</i>	0.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.37	
26 05 29 00-0304	C		6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	25.72	
			<i>For Up To 0.1, Add</i>	22.15	
			<i>For &gt;0.1 To 0.25, Add</i>	11.08	
			<i>For &gt;0.25 To 0.75, Add</i>	5.54	
			<i>For &gt;2.0, Deduct</i>	-2.22	
			<i>For UV Black, Add</i>	0.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.65	
26 05 29 00-0305	C		8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	29.49	
			<i>For Up To 0.1, Add</i>	23.15	
			<i>For &gt;0.1 To 0.25, Add</i>	11.58	
			<i>For &gt;0.25 To 0.75, Add</i>	5.79	
			<i>For &gt;2.0, Deduct</i>	-2.32	
			<i>For UV Black, Add</i>	0.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.95	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties .....	28.03	
For Up To 0.1, Add	21.23	
For >0.1 To 0.25, Add	10.62	
For >0.25 To 0.75, Add	5.31	
For >2.0, Deduct	-2.12	
For UV Black, Add	1.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties .....	29.00	
For Up To 0.1, Add	22.15	
For >0.1 To 0.25, Add	11.08	
For >0.25 To 0.75, Add	5.54	
For >2.0, Deduct	-2.22	
For UV Black, Add	1.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties .....	30.04	
For Up To 0.1, Add	23.15	
For >0.1 To 0.25, Add	11.58	
For >0.25 To 0.75, Add	5.79	
For >2.0, Deduct	-2.32	
For UV Black, Add	1.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.95	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties .....	40.85	
For Up To 0.1, Add	24.97	
For >0.1 To 0.25, Add	12.49	
For >0.25 To 0.75, Add	6.24	
For >2.0, Deduct	-2.50	
For UV Black, Add	2.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.49	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties .....	42.29	
For Up To 0.1, Add	24.97	
For >0.1 To 0.25, Add	12.49	
For >0.25 To 0.75, Add	6.24	
For >2.0, Deduct	-2.50	
For UV Black, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.49	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties .....	31.04	
For Up To 0.1, Add	23.15	
For >0.1 To 0.25, Add	11.58	
For >0.25 To 0.75, Add	5.79	
For >2.0, Deduct	-2.32	
For UV Black, Add	1.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.95	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties .....	29.77	
For Up To 0.1, Add	23.15	
For >0.1 To 0.25, Add	11.58	
For >0.25 To 0.75, Add	5.79	
For >2.0, Deduct	-2.32	
For UV Black, Add	0.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.95	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties .....	41.25	
For Up To 0.1, Add	24.97	
For >0.1 To 0.25, Add	12.49	
For >0.25 To 0.75, Add	6.24	
For >2.0, Deduct	-2.50	
For UV Black, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.49	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties .....	46.55	
For Up To 0.1, Add	26.53	
For >0.1 To 0.25, Add	13.27	
For >0.25 To 0.75, Add	6.63	
For >2.0, Deduct	-2.65	
For UV Black, Add	3.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.96	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties .....	44.63	
For Up To 0.1, Add	23.15	
For >0.1 To 0.25, Add	11.58	
For >0.25 To 0.75, Add	5.79	
For >2.0, Deduct	-2.32	
For UV Black, Add	3.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.95	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties .....	48.75	
For Up To 0.1, Add	24.97	
For >0.1 To 0.25, Add	12.49	
For >0.25 To 0.75, Add	6.24	
For >2.0, Deduct	-2.50	
For UV Black, Add	3.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.49	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties .....	57.80	
For Up To 0.1, Add	26.53	
For >0.1 To 0.25, Add	13.27	
For >0.25 To 0.75, Add	6.63	
For >2.0, Deduct	-2.65	
For UV Black, Add	4.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.96	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties .....	79.54	
			For Up To 0.1, Add	28.30	
			For >0.1 To 0.25, Add	14.15	
			For >0.25 To 0.75, Add	7.08	
			For >2.0, Deduct	-2.83	
			For UV Black, Add	7.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties .....	77.35	
			For Up To 0.1, Add	28.30	
			For >0.1 To 0.25, Add	14.15	
			For >0.25 To 0.75, Add	7.08	
			For >2.0, Deduct	-2.83	
			For UV Black, Add	7.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties .....	92.64	
			For Up To 0.1, Add	29.61	
			For >0.1 To 0.25, Add	14.81	
			For >0.25 To 0.75, Add	7.40	
			For >2.0, Deduct	-2.96	
			For UV Black, Add	9.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.88	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties .....	106.19	
			For Up To 0.1, Add	31.06	
			For >0.1 To 0.25, Add	15.53	
			For >0.25 To 0.75, Add	7.77	
			For >2.0, Deduct	-3.11	
			For UV Black, Add	11.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.32	
26 05 29 00-0322	C		46" Length, 175 LB Tensile Strength, Nylon Cable Ties .....	142.67	
			For Up To 0.1, Add	33.51	
			For >0.1 To 0.25, Add	16.76	
			For >0.25 To 0.75, Add	8.38	
			For >2.0, Deduct	-3.35	
			For UV Black, Add	16.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.05	
26 05 29 00-0323	C		3/4" x 3/4" Self Adhesive Tie Mounts .....	33.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.55	
26 05 29 00-0324	C		1.1" x 1.1" Tie Mounts With Screw .....	66.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 29 00-0325	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie .....	1.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.15	
26 05 29 00-0326	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie .....	1.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0327	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie .....	1.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0328	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie .....	2.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0329	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll .....	62.34	
			Note: Cut to length.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.95	
26 05 29 00-0330			<b>Fastening Devices For Wireway And Conduit</b> <small>(26 05 29)</small>		
			Note: Bolts include drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports.		
26 05 29 00-0331			<b>Toggle Bolts</b> <small>(26 05 29 00-0330)</small>		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt .....	7.95	
			For >50 To 100, Deduct	-0.76	
			For >100 To 250, Deduct	-1.51	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.77	
26 05 29 00-0333	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt .....	8.16	
			For >50 To 100, Deduct	-0.78	
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.86	
26 05 29 00-0334	EA		3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt .....	8.63	
			For >50 To 100, Deduct	-0.80	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.80	
			For >500, Deduct	-3.99	
26 05 29 00-0335	EA		3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt .....	8.85	
			For >50 To 100, Deduct	-0.82	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.86	
			For >500, Deduct	-4.08	
26 05 29 00-0336	EA		1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt .....	9.06	
			For >50 To 100, Deduct	-0.84	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-4.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.34	
<i>For &gt;50 To 100, Deduct</i>	-0.89	
<i>For &gt;100 To 250, Deduct</i>	-1.77	
<i>For &gt;250 To 500, Deduct</i>	-3.08	
<i>For &gt;500, Deduct</i>	-4.38	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.77	
<i>For &gt;50 To 100, Deduct</i>	-0.91	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-3.16	
<i>For &gt;500, Deduct</i>	-4.50	
<b>26 05 29 00-0339 Machine Screws</b> <small>(26 05 29 00-0330)</small>		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.34	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.45	
<i>For &gt;250 To 500, Deduct</i>	-0.79	
<i>For &gt;500, Deduct</i>	-1.13	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.38	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.46	
<i>For &gt;250 To 500, Deduct</i>	-0.80	
<i>For &gt;500, Deduct</i>	-1.14	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.99	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.00	
<i>For &gt;500, Deduct</i>	-1.43	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.14	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.58	
<i>For &gt;250 To 500, Deduct</i>	-1.01	
<i>For &gt;500, Deduct</i>	-1.45	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.89	
<i>For &gt;50 To 100, Deduct</i>	-0.35	
<i>For &gt;100 To 250, Deduct</i>	-0.70	
<i>For &gt;250 To 500, Deduct</i>	-1.22	
<i>For &gt;500, Deduct</i>	-1.75	
<b>26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors</b> <small>(26 05 29 00-0330)</small>		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.91	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100 To 250, Deduct</i>	-0.62	
<i>For &gt;250 To 500, Deduct</i>	-1.07	
<i>For &gt;500, Deduct</i>	-1.52	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.85	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100 To 250, Deduct</i>	-0.62	
<i>For &gt;250 To 500, Deduct</i>	-1.07	
<i>For &gt;500, Deduct</i>	-1.52	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	5.53	
<i>For &gt;50 To 100, Deduct</i>	-0.39	
<i>For &gt;100 To 250, Deduct</i>	-0.79	
<i>For &gt;250 To 500, Deduct</i>	-1.35	
<i>For &gt;500, Deduct</i>	-1.91	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	7.09	
<i>For &gt;50 To 100, Deduct</i>	-0.47	
<i>For &gt;100 To 250, Deduct</i>	-0.95	
<i>For &gt;250 To 500, Deduct</i>	-1.62	
<i>For &gt;500, Deduct</i>	-2.29	
<b>26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts</b> <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.90	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.48	
<i>For &gt;250 To 500, Deduct</i>	-0.84	
<i>For &gt;500, Deduct</i>	-1.19	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.95	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.49	
<i>For &gt;250 To 500, Deduct</i>	-0.84	
<i>For &gt;500, Deduct</i>	-1.20	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.52	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.96	
<i>For &gt;500, Deduct</i>	-1.36	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0354			<b>Hollow Wall Screw Anchors</b> (26 05 29 00-0330)		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	1.70	
			<i>For &gt;50 To 100, Deduct</i>	-0.14	
			<i>For &gt;100 To 250, Deduct</i>	-0.29	
			<i>For &gt;250 To 500, Deduct</i>	-0.50	
			<i>For &gt;500, Deduct</i>	-0.71	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	1.76	
			<i>For &gt;50 To 100, Deduct</i>	-0.15	
			<i>For &gt;100 To 250, Deduct</i>	-0.29	
			<i>For &gt;250 To 500, Deduct</i>	-0.50	
			<i>For &gt;500, Deduct</i>	-0.72	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	1.85	
			<i>For &gt;50 To 100, Deduct</i>	-0.15	
			<i>For &gt;100 To 250, Deduct</i>	-0.30	
			<i>For &gt;250 To 500, Deduct</i>	-0.51	
			<i>For &gt;500, Deduct</i>	-0.73	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.35	
			<i>For &gt;250 To 500, Deduct</i>	-0.61	
			<i>For &gt;500, Deduct</i>	-0.86	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.48	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500, Deduct</i>	-0.88	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.52	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500, Deduct</i>	-0.88	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.54	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100 To 250, Deduct</i>	-0.36	
			<i>For &gt;250 To 500, Deduct</i>	-0.62	
			<i>For &gt;500, Deduct</i>	-0.88	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.72	
			<i>For &gt;50 To 100, Deduct</i>	-0.19	
			<i>For &gt;100 To 250, Deduct</i>	-0.37	
			<i>For &gt;250 To 500, Deduct</i>	-0.64	
			<i>For &gt;500, Deduct</i>	-0.90	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.79	
			<i>For &gt;50 To 100, Deduct</i>	-0.19	
			<i>For &gt;100 To 250, Deduct</i>	-0.38	
			<i>For &gt;250 To 500, Deduct</i>	-0.64	
			<i>For &gt;500, Deduct</i>	-0.91	
26 05 29 00-0364			<b>Lead Screw Anchors</b> (26 05 29 00-0330)		
			Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw .....	3.94	
			<i>For &gt;50 To 100, Deduct</i>	-0.36	
			<i>For &gt;100 To 250, Deduct</i>	-0.72	
			<i>For &gt;250 To 500, Deduct</i>	-1.25	
			<i>For &gt;500, Deduct</i>	-1.78	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....	4.69	
			<i>For &gt;50 To 100, Deduct</i>	-0.42	
			<i>For &gt;100 To 250, Deduct</i>	-0.84	
			<i>For &gt;250 To 500, Deduct</i>	-1.45	
			<i>For &gt;500, Deduct</i>	-2.07	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....	6.37	
			<i>For &gt;50 To 100, Deduct</i>	-0.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.08	
			<i>For &gt;250 To 500, Deduct</i>	-1.88	
			<i>For &gt;500, Deduct</i>	-2.67	
26 05 29 00-0368			<b>Acoustical T-Bar Clips</b> (26 05 29 00-0330)		
			Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip .....	5.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.46	
			<i>For &gt;100 To 250, Deduct</i>	-0.92	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-2.28	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip .....	5.72	
			<i>For &gt;50 To 100, Deduct</i>	-0.49	
			<i>For &gt;100 To 250, Deduct</i>	-0.97	
			<i>For &gt;250 To 500, Deduct</i>	-1.68	
			<i>For &gt;500, Deduct</i>	-2.40	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip .....	6.16	
			<i>For &gt;50 To 100, Deduct</i>	-0.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.03	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0372</b> <b>Threaded Rod, Accessories And Attachments</b> <small>(26 05 29)</small>		
<b>26 05 29 00-0373</b> <b>Threaded Rod And Rod Accessories</b> <small>(26 05 29 00-0372)</small>		
<b>26 05 29 00-0374</b> <b>Carbon Steel Threaded Rod</b> <small>(26 05 29 00-0373)</small>		
<i>Note: Includes plain finish.</i>		
26 05 29 00-0375    LF    3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	3.17	0.64
<i>For Galvanized, Add</i>		
	<i>0.76</i>	
<i>For Zinc Coated, Add</i>		
	<i>0.54</i>	
26 05 29 00-0376    LF    1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.37	0.68
<i>For Galvanized, Add</i>		
	<i>1.21</i>	
<i>For Zinc Coated, Add</i>		
	<i>0.86</i>	
26 05 29 00-0377    LF    5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	6.09	0.70
<i>For Galvanized, Add</i>		
	<i>1.88</i>	
<i>For Zinc Coated, Add</i>		
	<i>1.34</i>	
26 05 29 00-0378    LF    3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	9.95	0.72
<i>For Galvanized, Add</i>		
	<i>3.40</i>	
<i>For Zinc Coated, Add</i>		
	<i>2.43</i>	
26 05 29 00-0379    LF    7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	10.85	0.75
<i>For Galvanized, Add</i>		
	<i>3.74</i>	
<i>For Zinc Coated, Add</i>		
	<i>2.67</i>	
26 05 29 00-0380    LF    1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	14.84	0.84
<i>For Galvanized, Add</i>		
	<i>5.26</i>	
<i>For Zinc Coated, Add</i>		
	<i>3.74</i>	
26 05 29 00-0381    LF    1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	18.46	0.94
<i>For Galvanized, Add</i>		
	<i>6.63</i>	
<i>For Zinc Coated, Add</i>		
	<i>4.72</i>	
<b>26 05 29 00-0382</b> <b>Threaded Rod Couplings</b> <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383    EA    3/8" Diameter, Threaded Rod Coupling Nut.....	8.29	
26 05 29 00-0384    EA    1/2" Diameter, Threaded Rod Coupling Nut.....	9.42	
26 05 29 00-0385    EA    5/8" Diameter, Threaded Rod Coupling Nut.....	11.83	
26 05 29 00-0386    EA    3/4" Diameter, Threaded Rod Coupling Nut.....	14.49	
26 05 29 00-0387    EA    7/8" Diameter, Threaded Rod Coupling Nut.....	21.45	
26 05 29 00-0388    EA    1" Diameter, Threaded Rod Coupling Nut.....	25.44	
26 05 29 00-0389    EA    1-1/8" Diameter, Threaded Rod Coupling Nut .....	49.22	
<b>26 05 29 00-0390</b> <b>Flat Washers</b> <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391    EA    3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.71	0.25
<i>For Galvanized, Add</i>		
	<i>0.03</i>	
26 05 29 00-0392    EA    1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.92	0.25
<i>For Galvanized, Add</i>		
	<i>0.07</i>	
26 05 29 00-0393    EA    5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.22	0.25
<i>For Galvanized, Add</i>		
	<i>0.14</i>	
26 05 29 00-0394    EA    3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.50	0.51
<i>For Galvanized, Add</i>		
	<i>0.20</i>	
26 05 29 00-0395    EA    7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.69	0.51
<i>For Galvanized, Add</i>		
	<i>0.24</i>	
26 05 29 00-0396    EA    1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	2.01	0.51
<i>For Galvanized, Add</i>		
	<i>0.29</i>	
26 05 29 00-0397    EA    1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	2.25	0.51
<i>For Galvanized, Add</i>		
	<i>0.33</i>	
<b>26 05 29 00-0398</b> <b>Malleable Iron Eye Sockets</b> <small>(26 05 29 00-0373)</small>		
<i>Note: Type 16.</i>		
26 05 29 00-0399    EA    3/8" Rod Size, Malleable Iron Eye Socket.....	7.21	
26 05 29 00-0400    EA    1/2" Rod Size, Malleable Iron Eye Socket.....	8.50	
26 05 29 00-0401    EA    5/8" Rod Size, Malleable Iron Eye Socket.....	13.93	
26 05 29 00-0402    EA    3/4" Rod Size, Malleable Iron Eye Socket.....	19.38	
26 05 29 00-0403    EA    7/8" Rod Size, Malleable Iron Eye Socket.....	20.75	
<b>26 05 29 00-0404</b> <b>Hex Nuts</b> <small>(26 05 29 00-0373)</small>		
26 05 29 00-0405    EA    3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	0.69	0.25
<i>For Galvanized, Add</i>		
	<i>0.03</i>	
26 05 29 00-0406    EA    1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	0.87	0.25
<i>For Galvanized, Add</i>		
	<i>0.06</i>	
26 05 29 00-0407    EA    5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	1.22	0.25
<i>For Galvanized, Add</i>		
	<i>0.14</i>	
26 05 29 00-0408    EA    3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	1.45	0.51
<i>For Galvanized, Add</i>		
	<i>0.19</i>	
26 05 29 00-0409    EA    7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	2.15	0.51
<i>For Galvanized, Add</i>		
	<i>0.35</i>	
26 05 29 00-0410    EA    1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	2.74	0.51
<i>For Galvanized, Add</i>		
	<i>0.47</i>	
26 05 29 00-0411    EA    1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....	4.52	0.51
<i>For Galvanized, Add</i>		
	<i>0.90</i>	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0412 Forged Steel Turnbuckles</b> (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body.....	18.43	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body.....	22.26	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body.....	28.85	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body.....	35.24	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body.....	79.27	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body.....	56.34	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body.....	107.18	
<b>26 05 29 00-0420 Attachments</b> (26 05 29 00-0372)		
<b>26 05 29 00-0421 Welded Beam Attachments</b> (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment.....	34.48	10.18
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment.....	36.66	10.68
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment.....	38.95	11.29
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment.....	47.60	12.00
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment.....	55.73	12.71
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment.....	75.30	14.55
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment.....	102.12	15.26
<b>26 05 29 00-0429 C-Clamp Style Beam Clamps</b> (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp.....	14.46	7.64
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp.....	16.57	8.15
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp.....	18.45	8.73
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp.....	22.42	9.40
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp.....	30.08	10.18
<b>26 05 29 00-0435 Bottom Mount I-Beam Clamps</b> (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	32.15	10.18
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	44.53	11.12
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	61.03	12.23
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	72.32	13.58
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	162.64	15.28
<b>26 05 29 00-0441 Steel U-Bolts</b> (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	11.71	6.11
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	12.56	6.43
26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt.....	13.43	6.79
26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	14.89	7.19
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	15.52	7.64
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt.....	16.60	8.15
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	21.79	8.73
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt.....	23.85	9.40
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt.....	27.98	10.18
<b>26 05 29 00-0451 Stainless Steel Threaded Rod</b> (26 05 29 00-0372)		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	2.75	0.51
For 316 Stainless Steel, Add	0.70	
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	4.07	0.56
For 316 Stainless Steel, Add	1.19	
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	5.21	0.64
For 316 Stainless Steel, Add	1.60	
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	7.17	0.66
For 316 Stainless Steel, Add	2.37	
26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.57	0.68
For 316 Stainless Steel, Add	2.92	
26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	12.75	0.69
For 316 Stainless Steel, Add	4.60	
26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	17.77	0.70
For 316 Stainless Steel, Add	6.63	
26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	24.37	0.72
For 316 Stainless Steel, Add	9.29	
26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	31.31	0.84
For 316 Stainless Steel, Add	11.99	
26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	66.05	1.02
For 316 Stainless Steel, Add	25.89	
<b>26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports</b> (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
<b>26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps</b> (26 05 29 00-0462)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0464</b>	<b>Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)</b>	
26 05 29 00-0465 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	56.96	20.35
26 05 29 00-0466 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	61.90	22.18
26 05 29 00-0467 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	65.89	24.41
26 05 29 00-0468 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	79.46	27.16
26 05 29 00-0469 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	91.96	30.52
26 05 29 00-0470 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	110.59	33.57
26 05 29 00-0471 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	120.96	36.63
26 05 29 00-0472 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	133.34	39.67
26 05 29 00-0473 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	140.65	42.73
26 05 29 00-0474 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	152.11	45.78
<b>26 05 29 00-0475</b>	<b>Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)</b>	
26 05 29 00-0476 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	61.42	20.35
26 05 29 00-0477 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	64.91	22.18
26 05 29 00-0478 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	74.92	24.41
26 05 29 00-0479 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	82.67	27.16
26 05 29 00-0480 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	93.20	30.52
26 05 29 00-0481 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	108.46	33.57
26 05 29 00-0482 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	124.98	36.63
26 05 29 00-0483 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	138.68	39.67
26 05 29 00-0484 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	147.35	42.73
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	153.00	45.78
<b>26 05 29 00-0486</b>	<b>Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)</b>	
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	57.82	20.15
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	62.13	21.97
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	70.42	24.41
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	82.97	26.86
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	108.98	30.52
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	119.46	33.57
<b>26 05 29 00-0493</b>	<b>Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)</b>	
<b>26 05 29 00-0494</b>	<b>One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)</b>	
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	7.36	0.61
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	8.00	0.61
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	11.81	0.61
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	14.38	0.61
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	18.96	0.61
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	28.53	0.61
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	38.03	0.61
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	50.98	0.61
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	90.31	0.61
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	95.98	0.61
<b>26 05 29 00-0505</b>	<b>Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)</b>	
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	14.49	1.22
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	14.55	1.22
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	14.94	1.22
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	18.86	1.22
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	19.39	1.22
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	22.28	1.22
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	25.08	1.22
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	26.24	1.22
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	28.04	1.22
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	30.44	1.22
<b>26 05 29 00-0516</b>	<b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)</b>	
<b>26 05 29 00-0517</b>	<b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)</b>	
26 05 29 00-0518 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	13.12	1.22
26 05 29 00-0519 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	15.30	1.22
26 05 29 00-0520 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	19.31	1.22
26 05 29 00-0521 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	22.62	1.22
26 05 29 00-0522 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	30.37	1.22
26 05 29 00-0523 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	38.52	1.22
26 05 29 00-0524 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	74.94	1.22
26 05 29 00-0525 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	102.43	1.22
26 05 29 00-0526 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	179.47	1.22
26 05 29 00-0527 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....	179.47	1.22
<b>26 05 29 00-0528</b>	<b>Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)</b>	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 29 00-0529		<b>Polyvinyl Chloride (PVC) Coated Threaded Rod</b> (26 05 29 00-0528)			
26 05 29 00-0530	LF	3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	9.06		0.81
26 05 29 00-0531	LF	1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	11.17		0.91
26 05 29 00-0532		<b>Attachments</b> (26 05 29 00-0462)			
26 05 29 00-0533		<b>Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts</b> (26 05 29 00-0532)			
26 05 29 00-0534	EA	1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	16.78		6.11
26 05 29 00-0535	EA	3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	17.31		6.42
26 05 29 00-0536	EA	1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	18.23		6.82
26 05 29 00-0537	EA	1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.42		7.23
26 05 29 00-0538	EA	1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	20.67		7.64
26 05 29 00-0539	EA	2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	23.32		8.15
26 05 29 00-0540	EA	2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	34.23		8.76
26 05 29 00-0541	EA	3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	35.86		9.37
26 05 29 00-0542	EA	4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	38.18		10.19
26 05 29 00-0543	EA	5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	63.23		11.62
26 05 29 00-0544	EA	6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	78.56		13.44
26 05 29 00-0545		<b>Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps</b> (26 05 29 00-0532)			
26 05 29 00-0546	EA	1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	58.49		20.15
26 05 29 00-0547	EA	5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	69.08		20.15
26 05 29 00-0548	EA	3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	73.45		20.15
26 05 29 00-0549	EA	1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	81.20		21.37
26 05 29 00-0550	EA	1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	95.19		24.41
26 05 29 00-0551		<b>Polyvinyl Chloride (PVC) Coated Pipe Straps</b> (26 05 29 00-0532)			
Note: Includes stainless steel nuts and bolts.					
26 05 29 00-0552	EA	1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	18.50		6.71
26 05 29 00-0553	EA	3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	19.54		7.32
26 05 29 00-0554	EA	1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	21.27		7.93
26 05 29 00-0555	EA	1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	24.01		9.16
26 05 29 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	27.44		10.38
26 05 29 00-0557	EA	2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	30.36		10.99
26 05 29 00-0558	EA	2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	33.57		12.21
26 05 29 00-0559	EA	3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	39.60		13.42
26 05 29 00-0560	EA	3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	43.11		14.04
26 05 29 00-0561	EA	4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	45.45		15.26
26 05 29 00-0562	EA	5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	48.79		17.09
26 05 29 00-0563		<b>Polyvinyl Chloride (PVC) Coated Channel</b> (26 05 29 00-0462)			
26 05 29 00-0564	LF	A12, Polyvinyl Chloride (PVC) Coated Channel.....	18.01		3.06
26 05 29 00-0565	LF	A12A, Polyvinyl Chloride (PVC) Coated Channel.....	31.55		4.28
26 05 29 00-0566	LF	A12P, Polyvinyl Chloride (PVC) Coated Channel.....	19.17		3.06
26 05 29 00-0567	LF	C14, Polyvinyl Chloride (PVC) Coated Channel.....	14.45		3.06
26 05 29 00-0568	LF	C14P, Polyvinyl Chloride (PVC) Coated Channel.....	15.17		3.06
26 05 29 00-0569		<b>Polymer Concrete Pads</b> (26 05 29)			
Note: Excludes excavation and backfill.					
26 05 29 00-0570		<b>Polymer Concrete, Box Pads</b> (26 05 29 00-0569)			
26 05 29 00-0571	EA	24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	842.43		99.73
26 05 29 00-0572	EA	25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	869.00		99.73
26 05 29 00-0573	EA	40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,113.14		99.73
26 05 29 00-0574	EA	40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,153.62		99.73
26 05 29 00-0575	EA	52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,075.46		99.73
26 05 29 00-0576	EA	44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,266.62		99.73
26 05 29 00-0577	EA	40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,413.20		99.73
26 05 29 00-0578	EA	52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,367.20		124.65
26 05 29 00-0579	EA	74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	2,052.07		124.65
26 05 29 00-0580	EA	93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	2,740.33		124.65
26 05 29 00-0581		<b>Polymer Concrete, Telecommunications Equipment Pads</b> (26 05 29 00-0569)			
26 05 29 00-0582	EA	42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	410.99		55.21
26 05 29 00-0583	EA	48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	483.57		55.21
26 05 29 00-0584	EA	60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	625.39		74.79
26 05 29 00-0585	EA	54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	652.36		74.79
26 05 29 00-0586	EA	57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	926.95		74.79
26 05 29 00-0587	EA	72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	965.12		74.79
26 05 29 00-0588	EA	64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,036.23		74.79
26 05 29 00-0589	EA	72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,036.23		74.79
26 05 29 00-0590	EA	76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,929.62		74.79
26 05 29 00-0591	EA	96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	2,184.53		74.79



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads</b> <small>(26 05 29 00-0569)</small>					
	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	257.27	55.21
	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	275.93	55.21
	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	292.93	55.21
	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	349.38	55.21
	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	324.19	55.21
	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	336.06	55.21
	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	366.84	55.21
	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	384.79	55.21
	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	444.75	55.21
	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	543.52	55.21
	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	794.66	74.79
	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	830.76	74.79
	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	842.15	74.79
	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	918.04	74.79
	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,933.04	74.79
	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,273.02	74.79
<b>26 05 33 Raceway And Boxes For Electrical Systems</b> <small>(26 05)</small>					
<b>26 05 33 13 Conduit For Electrical Systems</b> <small>(26 05 33)</small>					
<b>26 05 33 13-0001 Conduit Assemblies</b> <small>(26 05 33 13)</small>					
Note: Includes conduit, fittings and wire. Excludes hangers or supports.					
<b>26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies</b> <small>(26 05 33 13-0001)</small>					
Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0593 for larger EMT conduit.					
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	730.51	227.11
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				194.70	
				<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	
				0.97	
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	796.01	246.63
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				211.43	
				<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	
				1.46	
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	861.50	266.14
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				228.15	
				<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	
				1.95	
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	768.18	236.87
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				203.06	
				<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	
				1.46	
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	847.86	259.63
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				222.57	
				<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	
				2.19	
	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	850.50	256.38
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				219.79	
				<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	
				2.55	
	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	808.57	244.85
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				209.86	
				<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	
				0.97	
	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	874.07	264.37
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				226.59	
				<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	
				1.46	
	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	939.57	283.88
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	
				<i>For Work In Restricted Working Space, Add</i>	
				243.32	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,005.07	303.40
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	260.04	
		<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2.44	
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	846.23	254.61
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	218.22	
		<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.46	
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	925.92	277.38
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	237.74	
		<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2.19	
26 05 33 13-0015	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,005.61	300.15
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	257.25	
		<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2.92	
26 05 33 13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,085.29	322.92
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	276.77	
		<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	3.65	
26 05 33 13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,037.69	303.40
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	260.04	
		<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	3.82	
26 05 33 13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,146.79	332.67
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	285.13	
		<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	5.10	
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,028.47	293.65
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	251.68	
		<i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	4.21	
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,172.80	329.42
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	282.34	
		<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	6.32	
26 05 33 13-0021	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	914.29	263.53
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	225.92	
		<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	0.97	
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	979.78	283.05
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	242.64	
		<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1.46	
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,045.28	302.56
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	259.37	
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,110.79	322.07
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	276.10	
		<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2.44	
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	951.95	273.29
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	234.28	
		<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.46	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,031.64	296.06
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	253.80	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2.19	
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,111.33	318.83
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	273.31	
<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2.92	
26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,191.02	341.60
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	292.83	
<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	3.65	
26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,143.40	322.07
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	276.10	
<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	3.82	
26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,278.52	348.10
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	298.40	
<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	6.32	
26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,422.87	383.87
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	329.07	
<i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	8.43	
<b>26 05 33 13-0032 Rigid Galvanized Steel (RGS) Conduit Assemblies</b> <small>(26 05 33 13-0001)</small>		
Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	939.28	258.52
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	221.57	
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	0.97	
26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,004.78	278.03
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	238.30	
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1.46	
26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	976.95	268.27
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	229.94	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.46	
26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,056.63	291.04
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	249.45	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2.19	
26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,059.28	287.79
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	246.66	
<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	2.55	
26 05 33 13-0038 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,028.46	275.71
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	236.29	
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	0.97	
26 05 33 13-0039 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,093.96	295.22
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	253.02	
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1.46	
26 05 33 13-0040 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,159.45	314.74
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	269.74	
26 05 33 13-0041 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,066.13	285.47
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	244.65	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.46	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,145.80	308.24
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	264.17	
For 3 #10 THWN Conductor Instead Of THHN, Add	2.19	
26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,225.49	330.99
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	283.68	
For 4 #10 THWN Conductor Instead Of THHN, Add	2.92	
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,257.57	334.25
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	286.47	
For 3 #8 THWN Conductor Instead Of THHN, Add	3.82	
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,366.68	363.52
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	311.56	
For 4 #8 THWN Conductor Instead Of THHN, Add	5.10	
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,248.35	324.49
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	278.11	
For 2 #6 THWN Conductor Instead Of THHN, Add	4.21	
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,392.70	360.26
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	308.77	
For 3 #6 THWN Conductor Instead Of THHN, Add	6.32	
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,307.29	329.23
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	282.20	
For 3 #12 THWN Conductor Instead Of THHN, Add	1.46	
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,372.79	348.75
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	298.93	
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,438.27	368.26
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	315.65	
For 5 #12 THWN Conductor Instead Of THHN, Add	2.44	
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,359.14	342.25
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	293.36	
For 3 #10 THWN Conductor Instead Of THHN, Add	2.19	
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,438.83	365.00
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	312.87	
For 4 #10 THWN Conductor Instead Of THHN, Add	2.92	
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,518.51	387.77
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	332.38	
For 5 #10 THWN Conductor Instead Of THHN, Add	3.65	
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,470.89	368.26
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	315.65	
For 3 #8 THWN Conductor Instead Of THHN, Add	3.82	
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,606.02	394.28
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	337.96	
For 3 #6 THWN Conductor Instead Of THHN, Add	6.32	
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,750.36	430.06
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	368.62	
For 4 #6 THWN Conductor Instead Of THHN, Add	8.43	
26 05 33 13-0057 Conduit <sup>(26 05 33 13)</sup>		
Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade <sup>(26 05 33 13-0057)</sup>		
See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <sup>(26 05 33 13-0058)</sup>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling</b> <small>(26 05 33 13-0059)</small>		
<i>Note: Includes field bending for conduit up to 1".</i>		
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	6.75	2.04
<i>For &gt;250 To 500, Deduct</i>	-0.08	
<i>For &gt;500 To 1,000, Deduct</i>	-0.38	
<i>For &gt;1,000, Deduct</i>	-0.55	
<i>For Installation In Metal Stud Wall, Add</i>	0.51	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.28	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.77	
<i>For Work In Restricted Working Space, Add</i>	1.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	1.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	2.56	
<i>For Elevated Installation &gt;40', Add</i>	2.81	
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	7.59	2.23
<i>For &gt;250 To 500, Deduct</i>	-0.10	
<i>For &gt;500 To 1,000, Deduct</i>	-0.43	
<i>For &gt;1,000, Deduct</i>	-0.62	
<i>For Installation In Metal Stud Wall, Add</i>	0.56	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.39	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	1.67	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.56	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	1.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.23	
<i>For Elevated Installation &gt;35' To 40', Add</i>	2.79	
<i>For Elevated Installation &gt;40', Add</i>	3.06	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	9.63	2.61
<i>For &gt;250 To 500, Deduct</i>	-0.16	
<i>For &gt;500 To 1,000, Deduct</i>	-0.56	
<i>For &gt;1,000, Deduct</i>	-0.80	
<i>For Installation In Metal Stud Wall, Add</i>	0.65	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.63	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.98	
<i>For Work In Restricted Working Space, Add</i>	1.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
<i>For Elevated Installation &gt;40', Add</i>	3.58	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	11.61	2.98
<i>For &gt;250 To 500, Deduct</i>	-0.21	
<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
<i>For &gt;1,000, Deduct</i>	-0.98	
<i>For Installation In Metal Stud Wall, Add</i>	0.74	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.86	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.12	
<i>For Work In Restricted Working Space, Add</i>	2.23	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.74	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.86	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.72	
<i>For Elevated Installation &gt;40', Add</i>	4.09	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	13.48	3.35
<i>For &gt;250 To 500, Deduct</i>	-0.26	
<i>For &gt;500 To 1,000, Deduct</i>	-0.80	
<i>For &gt;1,000, Deduct</i>	-1.14	
<i>For Installation In Metal Stud Wall, Add</i>	0.84	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.09	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.26	
<i>For Work In Restricted Working Space, Add</i>	2.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.09	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.93	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.35	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.19	
<i>For Elevated Installation &gt;40', Add</i>	4.60	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	17.05	4.09
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-1.02	
For >1,000, Deduct	-1.45	
For Installation In Metal Stud Wall, Add	1.02	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.56	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.53	
For Work In Restricted Working Space, Add	3.07	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.04	
For Elevated Installation >20' To 25', Add	2.56	
For Elevated Installation >25' To 30', Add	3.58	
For Elevated Installation >30' To 35', Add	4.09	
For Elevated Installation >35' To 40', Add	5.11	
For Elevated Installation >40', Add	5.62	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	25.26	5.57
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.18	
For Installation In Metal Stud Wall, Add	1.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.49	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.09	
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	33.00	7.44
For >250 To 500, Deduct	-0.72	
For >500 To 1,000, Deduct	-2.01	
For >1,000, Deduct	-2.84	
For Installation In Metal Stud Wall, Add	1.86	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.65	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.79	
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	40.81	9.29
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-2.48	
For >1,000, Deduct	-3.50	
For Installation In Metal Stud Wall, Add	2.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.81	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.48	
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	48.33	11.15
For >250 To 500, Deduct	-1.02	
For >500 To 1,000, Deduct	-2.93	
For >1,000, Deduct	-4.14	
For Installation In Metal Stud Wall, Add	2.79	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.97	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.18	
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	76.77	14.13
For >250 To 500, Deduct	-2.07	
For >500 To 1,000, Deduct	-4.88	
For >1,000, Deduct	-6.79	
For Installation In Metal Stud Wall, Add	3.53	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.83	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.30	
For Work In Restricted Working Space, Add	10.59	
For Elevated Installation >10' To 15', Add	3.53	
For Elevated Installation >15' To 20', Add	7.06	
For Elevated Installation >20' To 25', Add	8.83	
For Elevated Installation >25' To 30', Add	12.36	
For Elevated Installation >30' To 35', Add	14.12	
For Elevated Installation >35' To 40', Add	17.66	
For Elevated Installation >40', Add	19.42	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	102.88	17.84
For >250 To 500, Deduct	-2.91	
For >500 To 1,000, Deduct	-6.60	
For >1,000, Deduct	-9.17	
For Installation In Metal Stud Wall, Add	4.46	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.15	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.69	
For Work In Restricted Working Space, Add	13.38	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.92	
For Elevated Installation >20' To 25', Add	11.15	
For Elevated Installation >25' To 30', Add	15.61	
For Elevated Installation >30' To 35', Add	17.84	
For Elevated Installation >35' To 40', Add	22.30	
For Elevated Installation >40', Add	24.53	
<b>26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0059)</b>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0074 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	69.81	20.53
For Work In Restricted Working Space, Add	15.39	
For Elevated Installation >10' To 15', Add	5.13	
For Elevated Installation >15' To 20', Add	10.26	
For Elevated Installation >20' To 25', Add	12.82	
For Elevated Installation >25' To 30', Add	17.95	
For Elevated Installation >30' To 35', Add	20.52	
For Elevated Installation >35' To 40', Add	25.65	
For Elevated Installation >40', Add	28.21	
26 05 33 13-0075 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	97.10	25.64
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
26 05 33 13-0076 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	136.46	34.94
For Work In Restricted Working Space, Add	26.20	
For Elevated Installation >10' To 15', Add	8.73	
For Elevated Installation >15' To 20', Add	17.47	
For Elevated Installation >20' To 25', Add	21.84	
For Elevated Installation >25' To 30', Add	30.57	
For Elevated Installation >30' To 35', Add	34.94	
For Elevated Installation >35' To 40', Add	43.67	
For Elevated Installation >40', Add	48.04	
26 05 33 13-0077 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	175.32	39.40
For Work In Restricted Working Space, Add	29.56	
For Elevated Installation >10' To 15', Add	9.85	
For Elevated Installation >15' To 20', Add	19.70	
For Elevated Installation >20' To 25', Add	24.63	
For Elevated Installation >25' To 30', Add	34.48	
For Elevated Installation >30' To 35', Add	39.41	
For Elevated Installation >35' To 40', Add	49.26	
For Elevated Installation >40', Add	54.19	
26 05 33 13-0078 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	216.71	51.30
For Work In Restricted Working Space, Add	38.46	
For Elevated Installation >10' To 15', Add	12.82	
For Elevated Installation >15' To 20', Add	25.64	
For Elevated Installation >20' To 25', Add	32.05	
For Elevated Installation >25' To 30', Add	44.87	
For Elevated Installation >30' To 35', Add	51.28	
For Elevated Installation >35' To 40', Add	64.11	
For Elevated Installation >40', Add	70.52	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0079 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	354.31	83.64
For Work In Restricted Working Space, Add	62.73	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.64	
For Elevated Installation >35' To 40', Add	104.55	
For Elevated Installation >40', Add	115.00	
26 05 33 13-0080 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	532.57	125.63
For Work In Restricted Working Space, Add	94.22	
For Elevated Installation >10' To 15', Add	31.41	
For Elevated Installation >15' To 20', Add	62.81	
For Elevated Installation >20' To 25', Add	78.52	
For Elevated Installation >25' To 30', Add	109.92	
For Elevated Installation >30' To 35', Add	125.62	
For Elevated Installation >35' To 40', Add	157.03	
For Elevated Installation >40', Add	172.73	
<b>26 05 33 13-0081 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0082 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	26.32	9.20
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.23	
For Elevated Installation >35' To 40', Add	11.54	
For Elevated Installation >40', Add	12.69	
26 05 33 13-0083 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	32.97	11.43
For Work In Restricted Working Space, Add	8.60	
For Elevated Installation >10' To 15', Add	2.87	
For Elevated Installation >15' To 20', Add	5.74	
For Elevated Installation >20' To 25', Add	7.17	
For Elevated Installation >25' To 30', Add	10.04	
For Elevated Installation >30' To 35', Add	11.47	
For Elevated Installation >35' To 40', Add	14.34	
For Elevated Installation >40', Add	15.77	
26 05 33 13-0084 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	41.58	14.03
For Work In Restricted Working Space, Add	10.49	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.24	
For Elevated Installation >30' To 35', Add	13.99	
For Elevated Installation >35' To 40', Add	17.49	
For Elevated Installation >40', Add	19.24	
26 05 33 13-0085 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	51.92	16.26
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0086 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	60.09	18.68
For Work In Restricted Working Space, Add	13.99	
For Elevated Installation >10' To 15', Add	4.66	
For Elevated Installation >15' To 20', Add	9.32	
For Elevated Installation >20' To 25', Add	11.66	
For Elevated Installation >25' To 30', Add	16.32	
For Elevated Installation >30' To 35', Add	18.65	
For Elevated Installation >35' To 40', Add	23.31	
For Elevated Installation >40', Add	25.64	
26 05 33 13-0087 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	69.81	20.53
For Work In Restricted Working Space, Add	15.39	
For Elevated Installation >10' To 15', Add	5.13	
For Elevated Installation >15' To 20', Add	10.26	
For Elevated Installation >20' To 25', Add	12.82	
For Elevated Installation >25' To 30', Add	17.95	
For Elevated Installation >30' To 35', Add	20.52	
For Elevated Installation >35' To 40', Add	25.65	
For Elevated Installation >40', Add	28.21	
26 05 33 13-0088 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	95.77	25.64
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0089 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	131.25	34.94
<i>For Work In Restricted Working Space, Add</i>	26.20	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.47	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	34.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	43.67	
<i>For Elevated Installation &gt;40', Add</i>	48.04	
26 05 33 13-0090 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	167.98	39.40
<i>For Work In Restricted Working Space, Add</i>	29.56	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.70	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	34.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	39.41	
<i>For Elevated Installation &gt;35' To 40', Add</i>	49.26	
<i>For Elevated Installation &gt;40', Add</i>	54.19	
26 05 33 13-0091 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	206.95	51.30
<i>For Work In Restricted Working Space, Add</i>	38.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.82	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.64	
<i>For Elevated Installation &gt;20' To 25', Add</i>	32.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	51.28	
<i>For Elevated Installation &gt;35' To 40', Add</i>	64.11	
<i>For Elevated Installation &gt;40', Add</i>	70.52	
26 05 33 13-0092 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	354.31	83.64
<i>For Work In Restricted Working Space, Add</i>	62.73	
<i>For Elevated Installation &gt;10' To 15', Add</i>	20.91	
<i>For Elevated Installation &gt;15' To 20', Add</i>	41.82	
<i>For Elevated Installation &gt;20' To 25', Add</i>	52.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	73.18	
<i>For Elevated Installation &gt;30' To 35', Add</i>	83.64	
<i>For Elevated Installation &gt;35' To 40', Add</i>	104.55	
<i>For Elevated Installation &gt;40', Add</i>	115.00	
26 05 33 13-0093 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	532.57	125.63
<i>For Work In Restricted Working Space, Add</i>	94.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	31.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	62.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	78.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	109.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	125.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	157.03	
<i>For Elevated Installation &gt;40', Add</i>	172.73	
<b>26 05 33 13-0094 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0095 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	61.64	22.95
<i>For Work In Restricted Working Space, Add</i>	13.77	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
26 05 33 13-0096 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	71.10	26.58
<i>For Work In Restricted Working Space, Add</i>	15.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
26 05 33 13-0097 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	81.90	30.20
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
26 05 33 13-0098 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	91.78	33.22
<i>For Work In Restricted Working Space, Add</i>	19.93	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0099			<b>Rigid Galvanized Steel (RGS) 15" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0100	EA		1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....65.72	22.95	
			<i>For Work In Restricted Working Space, Add</i> 13.77		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 4.59		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 9.18		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 11.48		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 16.07		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 18.36		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 22.96		
			<i>For Elevated Installation &gt;40', Add</i> 25.25		
26 05 33 13-0101	EA		1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....76.34	26.58	
			<i>For Work In Restricted Working Space, Add</i> 15.95		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 5.32		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 10.63		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 13.29		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 18.60		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 21.26		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 26.58		
			<i>For Elevated Installation &gt;40', Add</i> 29.23		
26 05 33 13-0102	EA		1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....84.29	30.20	
			<i>For Work In Restricted Working Space, Add</i> 18.12		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 6.04		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 12.08		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 15.10		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 21.14		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 24.16		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 30.20		
			<i>For Elevated Installation &gt;40', Add</i> 33.22		
26 05 33 13-0103	EA		2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....94.45	33.22	
			<i>For Work In Restricted Working Space, Add</i> 19.93		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 6.64		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 13.29		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 16.61		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 23.25		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 26.58		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 33.22		
			<i>For Elevated Installation &gt;40', Add</i> 36.54		
26 05 33 13-0104	EA		2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....123.99	41.68	
			<i>For Work In Restricted Working Space, Add</i> 25.01		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 8.34		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 16.67		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 20.84		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 29.17		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 33.34		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 41.68		
			<i>For Elevated Installation &gt;40', Add</i> 45.84		
26 05 33 13-0105	EA		3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....167.31	56.78	
			<i>For Work In Restricted Working Space, Add</i> 34.07		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 11.36		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 22.71		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 28.39		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 39.75		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 45.42		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 56.78		
			<i>For Elevated Installation &gt;40', Add</i> 62.46		
26 05 33 13-0106			<b>Rigid Galvanized Steel (RGS) 18" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0107	EA		1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....65.91	22.95	
			<i>For Work In Restricted Working Space, Add</i> 13.77		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 4.59		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 9.18		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 11.48		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 16.07		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 18.36		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 22.96		
			<i>For Elevated Installation &gt;40', Add</i> 25.25		
26 05 33 13-0108	EA		1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....75.83	26.58	
			<i>For Work In Restricted Working Space, Add</i> 15.95		
			<i>For Elevated Installation &gt;10' To 15', Add</i> 5.32		
			<i>For Elevated Installation &gt;15' To 20', Add</i> 10.63		
			<i>For Elevated Installation &gt;20' To 25', Add</i> 13.29		
			<i>For Elevated Installation &gt;25' To 30', Add</i> 18.60		
			<i>For Elevated Installation &gt;30' To 35', Add</i> 21.26		
			<i>For Elevated Installation &gt;35' To 40', Add</i> 26.58		
			<i>For Elevated Installation &gt;40', Add</i> 29.23		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0109 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	86.87	30.20
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
26 05 33 13-0110 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	100.22	33.22
For Work In Restricted Working Space, Add	19.93	
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
26 05 33 13-0111 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	129.38	41.68
For Work In Restricted Working Space, Add	25.01	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
26 05 33 13-0112 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	171.66	56.78
For Work In Restricted Working Space, Add	34.07	
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
26 05 33 13-0113 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	210.17	64.02
For Work In Restricted Working Space, Add	38.42	
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
26 05 33 13-0114 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	258.47	83.35
For Work In Restricted Working Space, Add	50.01	
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
<b>26 05 33 13-0115 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0116 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	72.41	22.95
For Work In Restricted Working Space, Add	13.77	
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
26 05 33 13-0117 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	82.21	26.58
For Work In Restricted Working Space, Add	15.95	
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
26 05 33 13-0118 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	91.65	30.20
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0119 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	107.27	33.22
For Work In Restricted Working Space, Add	19.93	
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
26 05 33 13-0120 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	138.99	41.68
For Work In Restricted Working Space, Add	25.01	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
26 05 33 13-0121 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	186.72	56.78
For Work In Restricted Working Space, Add	34.07	
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
26 05 33 13-0122 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	224.81	64.02
For Work In Restricted Working Space, Add	38.42	
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
26 05 33 13-0123 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	270.14	83.35
For Work In Restricted Working Space, Add	50.01	
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
<b>26 05 33 13-0124 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0125 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	72.02	22.95
For Work In Restricted Working Space, Add	13.77	
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
26 05 33 13-0126 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	86.95	26.58
For Work In Restricted Working Space, Add	15.95	
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
26 05 33 13-0127 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	96.79	30.20
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
26 05 33 13-0128 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	113.98	33.22
For Work In Restricted Working Space, Add	19.93	
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0129 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	148.20	41.68
<i>For Work In Restricted Working Space, Add</i>	25.01	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
26 05 33 13-0130 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	198.61	56.78
<i>For Work In Restricted Working Space, Add</i>	34.07	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
<i>For Elevated Installation &gt;30' To 35', Add</i>	45.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.78	
<i>For Elevated Installation &gt;40', Add</i>	62.46	
26 05 33 13-0131 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	239.29	64.02
<i>For Work In Restricted Working Space, Add</i>	38.42	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.61	
<i>For Elevated Installation &gt;20' To 25', Add</i>	32.01	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	51.22	
<i>For Elevated Installation &gt;35' To 40', Add</i>	64.03	
<i>For Elevated Installation &gt;40', Add</i>	70.43	
26 05 33 13-0132 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	291.57	83.35
<i>For Work In Restricted Working Space, Add</i>	50.01	
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	83.36	
<i>For Elevated Installation &gt;40', Add</i>	91.69	
26 05 33 13-0133 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	432.18	135.90
<i>For Work In Restricted Working Space, Add</i>	81.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	27.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	54.36	
<i>For Elevated Installation &gt;20' To 25', Add</i>	67.95	
<i>For Elevated Installation &gt;25' To 30', Add</i>	95.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	108.72	
<i>For Elevated Installation &gt;35' To 40', Add</i>	135.91	
<i>For Elevated Installation &gt;40', Add</i>	149.50	
<b>26 05 33 13-0134 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0135 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	75.49	22.95
<i>For Work In Restricted Working Space, Add</i>	13.77	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
26 05 33 13-0136 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	89.29	26.58
<i>For Work In Restricted Working Space, Add</i>	15.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
26 05 33 13-0137 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	105.79	30.20
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
26 05 33 13-0138 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	119.22	33.22
<i>For Work In Restricted Working Space, Add</i>	19.93	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0139 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	159.13	41.68
For Work In Restricted Working Space, Add	25.01	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
26 05 33 13-0140 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	208.78	56.78
For Work In Restricted Working Space, Add	34.07	
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
26 05 33 13-0141 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	257.98	64.02
For Work In Restricted Working Space, Add	38.42	
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
26 05 33 13-0142 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	301.65	83.35
For Work In Restricted Working Space, Add	50.01	
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
26 05 33 13-0143 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	514.42	135.90
For Work In Restricted Working Space, Add	81.54	
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
26 05 33 13-0144 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	674.86	204.16
For Work In Restricted Working Space, Add	122.50	
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
<b>26 05 33 13-0145 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0146 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	80.58	22.95
For Work In Restricted Working Space, Add	13.77	
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
26 05 33 13-0147 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	95.50	26.58
For Work In Restricted Working Space, Add	15.95	
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
26 05 33 13-0148 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	112.41	30.20
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0149 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	126.13	33.22
For Work In Restricted Working Space, Add	19.93	
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
26 05 33 13-0150 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	167.49	41.68
For Work In Restricted Working Space, Add	25.01	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
26 05 33 13-0151 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	223.69	56.78
For Work In Restricted Working Space, Add	34.07	
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
26 05 33 13-0152 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	272.93	64.02
For Work In Restricted Working Space, Add	38.42	
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
26 05 33 13-0153 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	344.66	83.35
For Work In Restricted Working Space, Add	50.01	
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
26 05 33 13-0154 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	573.75	135.90
For Work In Restricted Working Space, Add	81.54	
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
26 05 33 13-0155 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	726.24	204.16
For Work In Restricted Working Space, Add	122.50	
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
<b>26 05 33 13-0156 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow</b> <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0157 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	84.81	22.95
For Work In Restricted Working Space, Add	13.77	
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
26 05 33 13-0158 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	100.29	26.58
For Work In Restricted Working Space, Add	15.95	
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0159 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	116.58 18.12 6.04 12.08 15.10 21.14 24.16 30.21 33.23	30.20
26 05 33 13-0160 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	139.03 19.93 6.64 13.29 16.61 23.25 26.58 33.22 36.54	33.22
26 05 33 13-0161 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	182.91 25.01 8.34 16.67 20.84 29.17 33.34 41.68 45.84	41.68
26 05 33 13-0162 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	238.70 34.07 11.36 22.71 28.39 39.75 45.42 56.78 62.46	56.78
26 05 33 13-0163 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	291.72 38.42 12.81 25.61 32.01 44.82 51.22 64.03 70.43	64.02
26 05 33 13-0164 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	367.48 50.01 16.67 33.34 41.68 58.35 66.68 83.36 91.69	83.35
26 05 33 13-0165 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	592.33 81.54 27.18 54.36 67.95 95.13 108.72 135.91 149.50	135.90
26 05 33 13-0166 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	736.63 122.50 40.83 81.66 102.08 142.91 163.33 204.16 224.58	204.16
<b>26 05 33 13-0167 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)</b>		
26 05 33 13-0168 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.07 3.55 1.18 2.37 2.96 4.14 4.74 5.92 6.51 3.55	5.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0169 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	12.94	6.32
For Work In Restricted Working Space, Add	3.79	
For Elevated Installation >10' To 15', Add	1.26	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.42	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.32	
For Elevated Installation >40', Add	6.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-0170 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	14.68	7.10
For Work In Restricted Working Space, Add	4.27	
For Elevated Installation >10' To 15', Add	1.42	
For Elevated Installation >15' To 20', Add	2.84	
For Elevated Installation >20' To 25', Add	3.56	
For Elevated Installation >25' To 30', Add	4.98	
For Elevated Installation >30' To 35', Add	5.69	
For Elevated Installation >35' To 40', Add	7.11	
For Elevated Installation >40', Add	7.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0171 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	16.46	7.90
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.74	
26 05 33 13-0172 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	20.66	9.87
For Work In Restricted Working Space, Add	5.93	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.95	
For Elevated Installation >20' To 25', Add	4.94	
For Elevated Installation >25' To 30', Add	6.91	
For Elevated Installation >30' To 35', Add	7.90	
For Elevated Installation >35' To 40', Add	9.88	
For Elevated Installation >40', Add	10.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.93	
26 05 33 13-0173 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	25.39	11.84
For Work In Restricted Working Space, Add	7.11	
For Elevated Installation >10' To 15', Add	2.37	
For Elevated Installation >15' To 20', Add	4.74	
For Elevated Installation >20' To 25', Add	5.93	
For Elevated Installation >25' To 30', Add	8.30	
For Elevated Installation >30' To 35', Add	9.48	
For Elevated Installation >35' To 40', Add	11.85	
For Elevated Installation >40', Add	13.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0174 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	31.38	13.82
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.06	
For Elevated Installation >35' To 40', Add	13.83	
For Elevated Installation >40', Add	15.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	
26 05 33 13-0175 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	35.53	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-0176 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	41.00	14.87
For Work In Restricted Working Space, Add	10.66	
For Elevated Installation >10' To 15', Add	3.55	
For Elevated Installation >15' To 20', Add	7.11	
For Elevated Installation >20' To 25', Add	8.89	
For Elevated Installation >25' To 30', Add	12.44	
For Elevated Installation >30' To 35', Add	14.22	
For Elevated Installation >35' To 40', Add	17.77	
For Elevated Installation >40', Add	19.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0177	EA	4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	45.50	19.75
			<i>For Work In Restricted Working Space, Add</i>	11.85	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.95	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.87	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.75	
			<i>For Elevated Installation &gt;40', Add</i>	21.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.85	
26 05 33	13-0178	EA	5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	53.69	21.73
			<i>For Work In Restricted Working Space, Add</i>	13.03	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.69	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.86	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.20	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.38	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.72	
			<i>For Elevated Installation &gt;40', Add</i>	23.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 05 33	13-0179	EA	6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	73.35	23.70
			<i>For Work In Restricted Working Space, Add</i>	14.22	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.70	
			<i>For Elevated Installation &gt;40', Add</i>	26.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.22	
26 05 33	13-0180		<b>Rigid Galvanized Steel (RGS) Steel Bushing</b> (26 05 33 13-0059)		
26 05 33	13-0181	EA	1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	14.51	6.96
			<i>For Work In Restricted Working Space, Add</i>	4.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
			<i>For Elevated Installation &gt;40', Add</i>	7.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33	13-0182	EA	3/4" Rigid Galvanized Steel (RGS) Steel Bushing .....	15.70	7.44
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.49	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.97	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.72	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.20	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.95	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.44	
			<i>For Elevated Installation &gt;40', Add</i>	8.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33	13-0183	EA	1" Rigid Galvanized Steel (RGS) Steel Bushing .....	18.18	8.37
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.18	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.69	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.37	
			<i>For Elevated Installation &gt;40', Add</i>	9.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33	13-0184	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing .....	20.37	9.29
			<i>For Work In Restricted Working Space, Add</i>	5.58	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.86	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.72	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.51	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.30	
			<i>For Elevated Installation &gt;40', Add</i>	10.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.58	
26 05 33	13-0185	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	25.87	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0186 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing .....	30.72	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	
26 05 33 13-0187 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	41.45	16.26
For Work In Restricted Working Space, Add	9.76	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.51	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.39	
For Elevated Installation >30' To 35', Add	13.01	
For Elevated Installation >35' To 40', Add	16.27	
For Elevated Installation >40', Add	17.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 05 33 13-0188 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing .....	48.88	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.15	
26 05 33 13-0189 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	69.16	20.90
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0190 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing .....	90.82	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0191 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing .....	118.37	25.55
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-0192 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing .....	169.29	27.88
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.73	
<b>26 05 33 13-0193 Rigid Galvanized Steel (RGS) Steel Insulated Bushing</b> (26 05 33 13-0059)		
26 05 33 13-0194 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....	15.18	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0195 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	16.71	7.44
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.72	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.95	
For Elevated Installation >35' To 40', Add	7.44	
For Elevated Installation >40', Add	8.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0196 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	19.45	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0197 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	22.53	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.58	
26 05 33 13-0198 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	28.12	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0199 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	34.70	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	
26 05 33 13-0200 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	46.85	16.26
For Work In Restricted Working Space, Add	9.76	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.51	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.39	
For Elevated Installation >30' To 35', Add	13.01	
For Elevated Installation >35' To 40', Add	16.27	
For Elevated Installation >40', Add	17.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 05 33 13-0201 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	55.21	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.15	
26 05 33 13-0202 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	70.34	20.90
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0203 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	96.09	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0204 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	124.12	25.55
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-0205 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	171.31	27.88
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.73	
<b>26 05 33 13-0206 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)</b>		
26 05 33 13-0207 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	21.74	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0208 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	24.31	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.58	
26 05 33 13-0209 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.57	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0210 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	32.46	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0211 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	39.46	14.40
For Work In Restricted Working Space, Add	8.64	
For Elevated Installation >10' To 15', Add	2.88	
For Elevated Installation >15' To 20', Add	5.76	
For Elevated Installation >20' To 25', Add	7.20	
For Elevated Installation >25' To 30', Add	10.08	
For Elevated Installation >30' To 35', Add	11.52	
For Elevated Installation >35' To 40', Add	14.41	
For Elevated Installation >40', Add	15.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.64	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0212 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	49.18	17.20
For Work In Restricted Working Space, Add	10.31	
For Elevated Installation >10' To 15', Add	3.44	
For Elevated Installation >15' To 20', Add	6.88	
For Elevated Installation >20' To 25', Add	8.60	
For Elevated Installation >25' To 30', Add	12.03	
For Elevated Installation >30' To 35', Add	13.75	
For Elevated Installation >35' To 40', Add	17.19	
For Elevated Installation >40', Add	18.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 33 13-0213 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	64.13	19.98
For Work In Restricted Working Space, Add	11.99	
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	7.99	
For Elevated Installation >20' To 25', Add	9.99	
For Elevated Installation >25' To 30', Add	13.98	
For Elevated Installation >30' To 35', Add	15.98	
For Elevated Installation >35' To 40', Add	19.98	
For Elevated Installation >40', Add	21.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.99	
26 05 33 13-0214 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	71.41	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0215 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	80.60	26.01
For Work In Restricted Working Space, Add	15.61	
For Elevated Installation >10' To 15', Add	5.20	
For Elevated Installation >15' To 20', Add	10.41	
For Elevated Installation >20' To 25', Add	13.01	
For Elevated Installation >25' To 30', Add	18.21	
For Elevated Installation >30' To 35', Add	20.82	
For Elevated Installation >35' To 40', Add	26.02	
For Elevated Installation >40', Add	28.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 05 33 13-0216 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	101.33	28.81
For Work In Restricted Working Space, Add	17.28	
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.52	
For Elevated Installation >20' To 25', Add	14.40	
For Elevated Installation >25' To 30', Add	20.16	
For Elevated Installation >30' To 35', Add	23.04	
For Elevated Installation >35' To 40', Add	28.81	
For Elevated Installation >40', Add	31.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.28	
26 05 33 13-0217 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	138.45	31.60
For Work In Restricted Working Space, Add	18.96	
For Elevated Installation >10' To 15', Add	6.32	
For Elevated Installation >15' To 20', Add	12.64	
For Elevated Installation >20' To 25', Add	15.80	
For Elevated Installation >25' To 30', Add	22.12	
For Elevated Installation >30' To 35', Add	25.28	
For Elevated Installation >35' To 40', Add	31.60	
For Elevated Installation >40', Add	34.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.96	
26 05 33 13-0218 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing .....	185.71	34.84
For Work In Restricted Working Space, Add	20.91	
For Elevated Installation >10' To 15', Add	6.97	
For Elevated Installation >15' To 20', Add	13.94	
For Elevated Installation >20' To 25', Add	17.43	
For Elevated Installation >25' To 30', Add	24.40	
For Elevated Installation >30' To 35', Add	27.88	
For Elevated Installation >35' To 40', Add	34.85	
For Elevated Installation >40', Add	38.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.91	
<b>26 05 33 13-0219 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw</b> (26 05 33 13-0059)		
26 05 33 13-0220 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	13.23	4.28
For Work In Restricted Working Space, Add	3.18	
For Elevated Installation >10' To 15', Add	1.06	
For Elevated Installation >15' To 20', Add	2.12	
For Elevated Installation >20' To 25', Add	2.65	
For Elevated Installation >25' To 30', Add	3.71	
For Elevated Installation >30' To 35', Add	4.24	
For Elevated Installation >35' To 40', Add	5.30	
For Elevated Installation >40', Add	5.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.18	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0221 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	15.93	4.92
For Work In Restricted Working Space, Add	3.68	
For Elevated Installation >10' To 15', Add	1.23	
For Elevated Installation >15' To 20', Add	2.46	
For Elevated Installation >20' To 25', Add	3.07	
For Elevated Installation >25' To 30', Add	4.30	
For Elevated Installation >30' To 35', Add	4.91	
For Elevated Installation >35' To 40', Add	6.14	
For Elevated Installation >40', Add	6.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.68	
26 05 33 13-0222 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	20.62	5.94
For Work In Restricted Working Space, Add	4.44	
For Elevated Installation >10' To 15', Add	1.48	
For Elevated Installation >15' To 20', Add	2.96	
For Elevated Installation >20' To 25', Add	3.70	
For Elevated Installation >25' To 30', Add	5.18	
For Elevated Installation >30' To 35', Add	5.92	
For Elevated Installation >35' To 40', Add	7.40	
For Elevated Installation >40', Add	8.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 05 33 13-0223 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	29.83	7.35
For Work In Restricted Working Space, Add	5.52	
For Elevated Installation >10' To 15', Add	1.84	
For Elevated Installation >15' To 20', Add	3.68	
For Elevated Installation >20' To 25', Add	4.60	
For Elevated Installation >25' To 30', Add	6.44	
For Elevated Installation >30' To 35', Add	7.36	
For Elevated Installation >35' To 40', Add	9.21	
For Elevated Installation >40', Add	10.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0224 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	40.33	9.85
For Work In Restricted Working Space, Add	7.40	
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.16	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-0225 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	67.67	14.77
For Work In Restricted Working Space, Add	11.08	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.77	
For Elevated Installation >35' To 40', Add	18.46	
For Elevated Installation >40', Add	20.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 05 33 13-0226 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	116.98	16.35
For Work In Restricted Working Space, Add	12.27	
For Elevated Installation >10' To 15', Add	4.09	
For Elevated Installation >15' To 20', Add	8.18	
For Elevated Installation >20' To 25', Add	10.22	
For Elevated Installation >25' To 30', Add	14.31	
For Elevated Installation >30' To 35', Add	16.36	
For Elevated Installation >35' To 40', Add	20.45	
For Elevated Installation >40', Add	22.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.27	
26 05 33 13-0227 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	139.59	19.79
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.81	
For Elevated Installation >35' To 40', Add	24.76	
For Elevated Installation >40', Add	27.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	
26 05 33 13-0228 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	187.78	24.81
For Work In Restricted Working Space, Add	18.60	
For Elevated Installation >10' To 15', Add	6.20	
For Elevated Installation >15' To 20', Add	12.40	
For Elevated Installation >20' To 25', Add	15.50	
For Elevated Installation >25' To 30', Add	21.70	
For Elevated Installation >30' To 35', Add	24.80	
For Elevated Installation >35' To 40', Add	31.00	
For Elevated Installation >40', Add	34.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.60	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0229	EA	4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	220.32	29.73
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.30	
26 05 33	13-0230	EA	5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	377.66	33.08
			<i>For Work In Restricted Working Space, Add</i>	24.78	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.26	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.52	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.91	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.30	
			<i>For Elevated Installation &gt;40', Add</i>	45.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.78	
26 05 33	13-0231	EA	6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	450.08	37.17
			<i>For Work In Restricted Working Space, Add</i>	27.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.29	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.23	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	32.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	37.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	46.45	
			<i>For Elevated Installation &gt;40', Add</i>	51.10	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.87	
26 05 33	13-0232		<b>Rigid Galvanized Steel (RGS) Nipples</b> <small>(26 05 33 13-0059)</small>		
26 05 33	13-0233	EA	1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	12.97	6.04
			<i>For Work In Restricted Working Space, Add</i>	3.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
			<i>For Elevated Installation &gt;40', Add</i>	6.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33	13-0234	EA	3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	14.94	6.96
			<i>For Work In Restricted Working Space, Add</i>	4.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
			<i>For Elevated Installation &gt;40', Add</i>	7.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33	13-0235	EA	1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	19.05	8.83
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
			<i>For Elevated Installation &gt;40', Add</i>	9.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0236	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	22.21	10.22
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33	13-0237	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	25.33	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0238 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	13.04	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0239 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.05	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0240 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	19.18	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0241 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	22.38	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0242 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	25.60	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0243 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	28.87	13.01
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0244 EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	13.12	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0245 EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.15	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0246	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	19.35	8.83
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
			<i>For Elevated Installation &gt;40', Add</i>	9.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0247	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	22.53	10.22
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33	13-0248	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	25.78	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0249	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	29.32	13.01
			<i>For Work In Restricted Working Space, Add</i>	7.80	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.20	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.10	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.40	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.01	
			<i>For Elevated Installation &gt;40', Add</i>	14.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33	13-0250	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	38.44	15.79
			<i>For Work In Restricted Working Space, Add</i>	9.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.90	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.80	
			<i>For Elevated Installation &gt;40', Add</i>	17.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33	13-0251	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple .....	52.08	21.84
			<i>For Work In Restricted Working Space, Add</i>	13.10	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.84	
			<i>For Elevated Installation &gt;40', Add</i>	24.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33	13-0252	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	13.22	6.04
			<i>For Work In Restricted Working Space, Add</i>	3.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
			<i>For Elevated Installation &gt;40', Add</i>	6.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33	13-0253	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.20	6.96
			<i>For Work In Restricted Working Space, Add</i>	4.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
			<i>For Elevated Installation &gt;40', Add</i>	7.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0254 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	19.58	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0255 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	22.82	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0256 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	26.16	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0257 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple .....	29.78	13.01
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0258 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	39.69	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-0259 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple .....	53.16	21.84
For Work In Restricted Working Space, Add	13.10	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	
26 05 33 13-0260 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple .....	13.31	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0261 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.37	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0262	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	19.72	8.83
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
			<i>For Elevated Installation &gt;40', Add</i>	9.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0263	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	22.96	10.22
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33	13-0264	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	26.42	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0265	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	30.18	13.01
			<i>For Work In Restricted Working Space, Add</i>	7.80	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.20	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.10	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.40	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.01	
			<i>For Elevated Installation &gt;40', Add</i>	14.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33	13-0266	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	40.07	15.79
			<i>For Work In Restricted Working Space, Add</i>	9.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.90	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.80	
			<i>For Elevated Installation &gt;40', Add</i>	17.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33	13-0267	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	53.96	21.84
			<i>For Work In Restricted Working Space, Add</i>	13.10	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.84	
			<i>For Elevated Installation &gt;40', Add</i>	24.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33	13-0268	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	61.76	24.62
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.85	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.62	
			<i>For Elevated Installation &gt;40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-0269	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	78.17	32.06
			<i>For Work In Restricted Working Space, Add</i>	19.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.41	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.06	
			<i>For Elevated Installation &gt;40', Add</i>	35.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0270 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	13.46	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0271 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.59	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0272 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	19.99	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0273 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	23.36	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0274 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	26.81	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0275 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	30.87	13.01
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0276 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	41.61	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-0277 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple .....	55.63	21.84
For Work In Restricted Working Space, Add	13.10	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0278	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	63.42	24.62
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.85	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.62	
			<i>For Elevated Installation &gt;40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-0279	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	80.59	32.06
			<i>For Work In Restricted Working Space, Add</i>	19.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.41	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.06	
			<i>For Elevated Installation &gt;40', Add</i>	35.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33	13-0280	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	120.27	44.14
			<i>For Work In Restricted Working Space, Add</i>	26.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.07	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.14	
			<i>For Elevated Installation &gt;40', Add</i>	48.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33	13-0281	EA	6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	153.14	56.59
			<i>For Work In Restricted Working Space, Add</i>	33.98	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.63	
			<i>For Elevated Installation &gt;40', Add</i>	62.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.98	
26 05 33	13-0282	EA	1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	13.72	6.04
			<i>For Work In Restricted Working Space, Add</i>	3.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
			<i>For Elevated Installation &gt;40', Add</i>	6.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33	13-0283	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	15.86	6.96
			<i>For Work In Restricted Working Space, Add</i>	4.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
			<i>For Elevated Installation &gt;40', Add</i>	7.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33	13-0284	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	20.21	8.83
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
			<i>For Elevated Installation &gt;40', Add</i>	9.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0285	EA	1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	23.72	10.22
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0286 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	27.63	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0287 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	31.57	13.01
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0288 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	42.96	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-0289 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	57.33	21.84
For Work In Restricted Working Space, Add	13.10	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	
26 05 33 13-0290 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	65.45	24.62
For Work In Restricted Working Space, Add	14.77	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.85	
For Elevated Installation >20' To 25', Add	12.31	
For Elevated Installation >25' To 30', Add	17.23	
For Elevated Installation >30' To 35', Add	19.70	
For Elevated Installation >35' To 40', Add	24.62	
For Elevated Installation >40', Add	27.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77	
26 05 33 13-0291 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	82.52	32.06
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.23	
26 05 33 13-0292 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	123.09	44.14
For Work In Restricted Working Space, Add	26.48	
For Elevated Installation >10' To 15', Add	8.83	
For Elevated Installation >15' To 20', Add	17.65	
For Elevated Installation >20' To 25', Add	22.07	
For Elevated Installation >25' To 30', Add	30.89	
For Elevated Installation >30' To 35', Add	35.31	
For Elevated Installation >35' To 40', Add	44.14	
For Elevated Installation >40', Add	48.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.48	
26 05 33 13-0293 EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....	157.26	56.59
For Work In Restricted Working Space, Add	33.98	
For Elevated Installation >10' To 15', Add	11.33	
For Elevated Installation >15' To 20', Add	22.65	
For Elevated Installation >20' To 25', Add	28.32	
For Elevated Installation >25' To 30', Add	39.64	
For Elevated Installation >30' To 35', Add	45.30	
For Elevated Installation >35' To 40', Add	56.63	
For Elevated Installation >40', Add	62.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.98	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0294	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	14.70	6.04
			<i>For Work In Restricted Working Space, Add</i>	3.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
			<i>For Elevated Installation &gt;40', Add</i>	6.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33	13-0295	EA	3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	17.11	6.96
			<i>For Work In Restricted Working Space, Add</i>	4.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
			<i>For Elevated Installation &gt;40', Add</i>	7.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33	13-0296	EA	1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	21.68	8.83
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
			<i>For Elevated Installation &gt;40', Add</i>	9.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0297	EA	1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	25.82	10.22
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33	13-0298	EA	1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	29.97	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0299	EA	2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	34.03	13.01
			<i>For Work In Restricted Working Space, Add</i>	7.80	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.20	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.10	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.40	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.01	
			<i>For Elevated Installation &gt;40', Add</i>	14.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33	13-0300	EA	2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	46.54	15.79
			<i>For Work In Restricted Working Space, Add</i>	9.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.90	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.80	
			<i>For Elevated Installation &gt;40', Add</i>	17.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33	13-0301	EA	3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	61.44	21.84
			<i>For Work In Restricted Working Space, Add</i>	13.10	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.84	
			<i>For Elevated Installation &gt;40', Add</i>	24.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0302 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	69.55	24.62
For Work In Restricted Working Space, Add	14.77	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.85	
For Elevated Installation >20' To 25', Add	12.31	
For Elevated Installation >25' To 30', Add	17.23	
For Elevated Installation >30' To 35', Add	19.70	
For Elevated Installation >35' To 40', Add	24.62	
For Elevated Installation >40', Add	27.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77	
26 05 33 13-0303 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	87.05	32.06
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.23	
26 05 33 13-0304 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	129.62	44.14
For Work In Restricted Working Space, Add	26.48	
For Elevated Installation >10' To 15', Add	8.83	
For Elevated Installation >15' To 20', Add	17.65	
For Elevated Installation >20' To 25', Add	22.07	
For Elevated Installation >25' To 30', Add	30.89	
For Elevated Installation >30' To 35', Add	35.31	
For Elevated Installation >35' To 40', Add	44.14	
For Elevated Installation >40', Add	48.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.48	
26 05 33 13-0305 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....	164.61	56.59
For Work In Restricted Working Space, Add	33.98	
For Elevated Installation >10' To 15', Add	11.33	
For Elevated Installation >15' To 20', Add	22.65	
For Elevated Installation >20' To 25', Add	28.32	
For Elevated Installation >25' To 30', Add	39.64	
For Elevated Installation >30' To 35', Add	45.30	
For Elevated Installation >35' To 40', Add	56.63	
For Elevated Installation >40', Add	62.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.98	
26 05 33 13-0306 EA 1 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.36	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0307 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	17.75	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0308 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	22.84	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0309 EA 1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	27.21	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0310	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	31.33	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0311	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	35.61	13.01
			<i>For Work In Restricted Working Space, Add</i>	7.80	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.20	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.10	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.40	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.01	
			<i>For Elevated Installation &gt;40', Add</i>	14.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33	13-0312	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	48.95	15.79
			<i>For Work In Restricted Working Space, Add</i>	9.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.90	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.80	
			<i>For Elevated Installation &gt;40', Add</i>	17.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33	13-0313	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	64.67	21.84
			<i>For Work In Restricted Working Space, Add</i>	13.10	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.84	
			<i>For Elevated Installation &gt;40', Add</i>	24.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33	13-0314	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	73.81	24.62
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.85	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.62	
			<i>For Elevated Installation &gt;40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-0315	EA	4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	92.45	32.06
			<i>For Work In Restricted Working Space, Add</i>	19.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.41	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.06	
			<i>For Elevated Installation &gt;40', Add</i>	35.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33	13-0316	EA	5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	136.75	44.14
			<i>For Work In Restricted Working Space, Add</i>	26.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.07	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.14	
			<i>For Elevated Installation &gt;40', Add</i>	48.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33	13-0317	EA	6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	177.43	56.59
			<i>For Work In Restricted Working Space, Add</i>	33.98	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.63	
			<i>For Elevated Installation &gt;40', Add</i>	62.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0318 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	15.86	6.04
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0319 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	18.22	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0320 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	23.55	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0321 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	28.32	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0322 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	32.02	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0323 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	36.94	13.01
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0324 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	51.78	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-0325 EA 3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	69.17	21.84
For Work In Restricted Working Space, Add	13.10	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0326	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	77.96	24.62
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.85	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.62	
			<i>For Elevated Installation &gt;40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-0327	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	97.84	32.06
			<i>For Work In Restricted Working Space, Add</i>	19.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.41	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.64	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.06	
			<i>For Elevated Installation &gt;40', Add</i>	35.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33	13-0328	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	147.00	44.14
			<i>For Work In Restricted Working Space, Add</i>	26.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.07	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.14	
			<i>For Elevated Installation &gt;40', Add</i>	48.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33	13-0329	EA	6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	184.56	56.59
			<i>For Work In Restricted Working Space, Add</i>	33.98	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.63	
			<i>For Elevated Installation &gt;40', Add</i>	62.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.98	
<b>26 05 33</b>	<b>13-0330</b>		<b>Rigid Galvanized Steel (RGS) Off-Set Nipples <small>(26 05 33 13-0059)</small></b>		
26 05 33	13-0331	EA	1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple .....	13.58	4.83
			<i>For Work In Restricted Working Space, Add</i>	3.65	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.44	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.87	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.09	
			<i>For Elevated Installation &gt;40', Add</i>	6.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.65	
26 05 33	13-0332	EA	3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple .....	16.01	5.57
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.77	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.47	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.85	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.93	
			<i>For Elevated Installation &gt;40', Add</i>	7.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33	13-0333	EA	1" Rigid Galvanized Steel (RGS) Off-Set Nipple .....	20.18	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.32	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.55	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.43	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.21	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.09	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.87	
			<i>For Elevated Installation &gt;40', Add</i>	9.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.32	
26 05 33	13-0334	EA	1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	25.20	8.46
			<i>For Work In Restricted Working Space, Add</i>	6.37	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.25	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.43	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.62	
			<i>For Elevated Installation &gt;40', Add</i>	11.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0335 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	27.59	9.29
For Work In Restricted Working Space, Add	6.98	
For Elevated Installation >10' To 15', Add	2.33	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.14	
For Elevated Installation >30' To 35', Add	9.30	
For Elevated Installation >35' To 40', Add	11.63	
For Elevated Installation >40', Add	12.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 05 33 13-0336 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	35.54	11.43
For Work In Restricted Working Space, Add	8.59	
For Elevated Installation >10' To 15', Add	2.86	
For Elevated Installation >15' To 20', Add	5.73	
For Elevated Installation >20' To 25', Add	7.16	
For Elevated Installation >25' To 30', Add	10.02	
For Elevated Installation >30' To 35', Add	11.46	
For Elevated Installation >35' To 40', Add	14.32	
For Elevated Installation >40', Add	15.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.59	
26 05 33 13-0337 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	57.95	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.58	
For Elevated Installation >35' To 40', Add	23.23	
For Elevated Installation >40', Add	25.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0338 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	90.21	25.64
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.23	
26 05 33 13-0339 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	110.57	30.29
For Work In Restricted Working Space, Add	22.60	
For Elevated Installation >10' To 15', Add	7.53	
For Elevated Installation >15' To 20', Add	15.06	
For Elevated Installation >20' To 25', Add	18.83	
For Elevated Installation >25' To 30', Add	26.36	
For Elevated Installation >30' To 35', Add	30.13	
For Elevated Installation >35' To 40', Add	37.66	
For Elevated Installation >40', Add	41.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.60	
26 05 33 13-0340 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	131.70	34.94
For Work In Restricted Working Space, Add	26.21	
For Elevated Installation >10' To 15', Add	8.74	
For Elevated Installation >15' To 20', Add	17.47	
For Elevated Installation >20' To 25', Add	21.84	
For Elevated Installation >25' To 30', Add	30.58	
For Elevated Installation >30' To 35', Add	34.94	
For Elevated Installation >35' To 40', Add	43.68	
For Elevated Installation >40', Add	48.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.21	
<b>26 05 33 13-0341 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling</b> <small>(26 05 33 13-0059)</small>		
Note: Erickson fittings.		
26 05 33 13-0342 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	38.78	14.87
For Work In Restricted Working Space, Add	11.17	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.31	
For Elevated Installation >25' To 30', Add	13.03	
For Elevated Installation >30' To 35', Add	14.89	
For Elevated Installation >35' To 40', Add	18.61	
For Elevated Installation >40', Add	20.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.17	
26 05 33 13-0343 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	43.54	16.63
For Work In Restricted Working Space, Add	12.46	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.31	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.54	
For Elevated Installation >30' To 35', Add	16.61	
For Elevated Installation >35' To 40', Add	20.77	
For Elevated Installation >40', Add	22.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0344 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	49.97	18.49
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.25	
For Elevated Installation >20' To 25', Add	11.57	
For Elevated Installation >25' To 30', Add	16.19	
For Elevated Installation >30' To 35', Add	18.51	
For Elevated Installation >35' To 40', Add	23.14	
For Elevated Installation >40', Add	25.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.88	
26 05 33 13-0345 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.52	20.26
For Work In Restricted Working Space, Add	15.19	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.13	
For Elevated Installation >20' To 25', Add	12.66	
For Elevated Installation >25' To 30', Add	17.72	
For Elevated Installation >30' To 35', Add	20.25	
For Elevated Installation >35' To 40', Add	25.32	
For Elevated Installation >40', Add	27.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.19	
26 05 33 13-0346 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	64.85	22.12
For Work In Restricted Working Space, Add	16.62	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.08	
For Elevated Installation >20' To 25', Add	13.85	
For Elevated Installation >25' To 30', Add	19.39	
For Elevated Installation >30' To 35', Add	22.16	
For Elevated Installation >35' To 40', Add	27.70	
For Elevated Installation >40', Add	30.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.62	
26 05 33 13-0347 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	78.94	23.97
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.00	
For Elevated Installation >40', Add	32.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-0348 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	118.23	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-0349 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	159.54	37.17
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.88	
26 05 33 13-0350 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	222.51	44.60
For Work In Restricted Working Space, Add	33.46	
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.31	
For Elevated Installation >20' To 25', Add	27.89	
For Elevated Installation >25' To 30', Add	39.04	
For Elevated Installation >30' To 35', Add	44.62	
For Elevated Installation >35' To 40', Add	55.77	
For Elevated Installation >40', Add	61.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.46	
26 05 33 13-0351 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	251.28	48.32
For Work In Restricted Working Space, Add	36.24	
For Elevated Installation >10' To 15', Add	12.08	
For Elevated Installation >15' To 20', Add	24.16	
For Elevated Installation >20' To 25', Add	30.20	
For Elevated Installation >25' To 30', Add	42.28	
For Elevated Installation >30' To 35', Add	48.32	
For Elevated Installation >35' To 40', Add	60.40	
For Elevated Installation >40', Add	66.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0352 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	416.48	59.47
<i>For Work In Restricted Working Space, Add</i>	44.60	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.73	
<i>For Elevated Installation &gt;20' To 25', Add</i>	37.17	
<i>For Elevated Installation &gt;25' To 30', Add</i>	52.03	
<i>For Elevated Installation &gt;30' To 35', Add</i>	59.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	74.33	
<i>For Elevated Installation &gt;40', Add</i>	81.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.60	
26 05 33 13-0353 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	528.87	68.76
<i>For Work In Restricted Working Space, Add</i>	51.57	
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.19	
<i>For Elevated Installation &gt;15' To 20', Add</i>	34.38	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	60.16	
<i>For Elevated Installation &gt;30' To 35', Add</i>	68.76	
<i>For Elevated Installation &gt;35' To 40', Add</i>	85.95	
<i>For Elevated Installation &gt;40', Add</i>	94.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.57	
<b>26 05 33 13-0354 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors</b> <small>(26 05 33 13-0059)</small>		
26 05 33 13-0355 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	22.35	7.44
<i>For Work In Restricted Working Space, Add</i>	5.58	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.86	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.72	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.65	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.51	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.30	
<i>For Elevated Installation &gt;40', Add</i>	10.22	
26 05 33 13-0356 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	24.89	8.18
<i>For Work In Restricted Working Space, Add</i>	6.13	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
<i>For Elevated Installation &gt;40', Add</i>	11.24	
26 05 33 13-0357 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	28.53	9.29
<i>For Work In Restricted Working Space, Add</i>	6.97	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
<i>For Elevated Installation &gt;40', Add</i>	12.78	
26 05 33 13-0358 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	32.09	10.03
<i>For Work In Restricted Working Space, Add</i>	7.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.78	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.55	
<i>For Elevated Installation &gt;40', Add</i>	13.80	
26 05 33 13-0359 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	37.64	11.15
<i>For Work In Restricted Working Space, Add</i>	8.36	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
<i>For Elevated Installation &gt;40', Add</i>	15.33	
26 05 33 13-0360 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	45.08	12.27
<i>For Work In Restricted Working Space, Add</i>	9.20	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.07	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.67	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.73	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.33	
<i>For Elevated Installation &gt;40', Add</i>	16.86	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0361 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	60.29	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
26 05 33 13-0362 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	74.68	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
26 05 33 13-0363 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	89.70	22.31
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0364 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	100.71	24.16
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	
<b>26 05 33 13-0365 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)</b>		
26 05 33 13-0366 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	19.49	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0367 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	21.70	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.58	
26 05 33 13-0368 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	26.88	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0369 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	32.84	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0370 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	42.62	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.15	
26 05 33 13-0371 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	49.10	20.90
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0372 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	58.84	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0373 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	77.92	29.27
For Work In Restricted Working Space, Add	17.56	
For Elevated Installation >10' To 15', Add	5.85	
For Elevated Installation >15' To 20', Add	11.71	
For Elevated Installation >20' To 25', Add	14.64	
For Elevated Installation >25' To 30', Add	20.49	
For Elevated Installation >30' To 35', Add	23.42	
For Elevated Installation >35' To 40', Add	29.27	
For Elevated Installation >40', Add	32.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 05 33 13-0374 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	92.88	35.31
For Work In Restricted Working Space, Add	21.19	
For Elevated Installation >10' To 15', Add	7.06	
For Elevated Installation >15' To 20', Add	14.12	
For Elevated Installation >20' To 25', Add	17.66	
For Elevated Installation >25' To 30', Add	24.72	
For Elevated Installation >30' To 35', Add	28.25	
For Elevated Installation >35' To 40', Add	35.31	
For Elevated Installation >40', Add	38.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.19	
26 05 33 13-0375 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	112.98	41.82
For Work In Restricted Working Space, Add	25.09	
For Elevated Installation >10' To 15', Add	8.36	
For Elevated Installation >15' To 20', Add	16.73	
For Elevated Installation >20' To 25', Add	20.91	
For Elevated Installation >25' To 30', Add	29.27	
For Elevated Installation >30' To 35', Add	33.46	
For Elevated Installation >35' To 40', Add	41.82	
For Elevated Installation >40', Add	46.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
<b>26 05 33 13-0376 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement</b> <sup>(26 05</sup>		
<sup>33 13-0376)</sup>		
Note: Type AX		
26 05 33 13-0377 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	97.21	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.45	
26 05 33 13-0378 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	110.34	16.73
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0379 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	130.77	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
26 05 33 13-0380 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	160.31	20.44
For Work In Restricted Working Space, Add	15.34	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.45	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.12	
26 05 33 13-0381 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	201.69	22.31
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0382 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	279.29	24.16
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
26 05 33 13-0383 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	428.18	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
26 05 33 13-0384 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	548.66	37.17
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
26 05 33 13-0385 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	801.66	44.60
For Work In Restricted Working Space, Add	33.46	
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.30	
For Elevated Installation >20' To 25', Add	27.88	
For Elevated Installation >25' To 30', Add	39.03	
For Elevated Installation >30' To 35', Add	44.61	
For Elevated Installation >35' To 40', Add	55.76	
For Elevated Installation >40', Add	61.34	
26 05 33 13-0386 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	854.50	48.32
For Work In Restricted Working Space, Add	36.24	
For Elevated Installation >10' To 15', Add	12.08	
For Elevated Installation >15' To 20', Add	24.16	
For Elevated Installation >20' To 25', Add	30.20	
For Elevated Installation >25' To 30', Add	42.28	
For Elevated Installation >30' To 35', Add	48.32	
For Elevated Installation >35' To 40', Add	60.40	
For Elevated Installation >40', Add	66.43	
26 05 33 13-0387 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,309.89	59.47
For Work In Restricted Working Space, Add	44.60	
For Elevated Installation >10' To 15', Add	14.87	
For Elevated Installation >15' To 20', Add	29.74	
For Elevated Installation >20' To 25', Add	37.17	
For Elevated Installation >25' To 30', Add	52.04	
For Elevated Installation >30' To 35', Add	59.47	
For Elevated Installation >35' To 40', Add	74.34	
For Elevated Installation >40', Add	81.77	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0388 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,609.61	65.98
<i>For Work In Restricted Working Space, Add</i>	49.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.26	
<i>For Elevated Installation &gt;25' To 30', Add</i>	57.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	82.52	
<i>For Elevated Installation &gt;40', Add</i>	90.77	
 26 05 33 13-0389 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement <sup>(26 05</sup>		
<small>33 13-0059)</small>		
Note: Type AX-8		
26 05 33 13-0390 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	107.24	14.87
<i>For Work In Restricted Working Space, Add</i>	11.15	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.72	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.44	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.01	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.87	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.59	
<i>For Elevated Installation &gt;40', Add</i>	20.45	
26 05 33 13-0391 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	119.24	16.73
<i>For Work In Restricted Working Space, Add</i>	12.55	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.36	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.64	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.91	
<i>For Elevated Installation &gt;40', Add</i>	23.00	
26 05 33 13-0392 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	144.72	18.59
<i>For Work In Restricted Working Space, Add</i>	13.94	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
<i>For Elevated Installation &gt;40', Add</i>	25.56	
26 05 33 13-0393 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	182.28	20.44
<i>For Work In Restricted Working Space, Add</i>	15.34	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.45	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
<i>For Elevated Installation &gt;40', Add</i>	28.12	
26 05 33 13-0394 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	245.35	22.31
<i>For Work In Restricted Working Space, Add</i>	16.73	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
<i>For Elevated Installation &gt;40', Add</i>	30.67	
26 05 33 13-0395 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	300.15	24.16
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
26 05 33 13-0396 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	563.43	29.73
<i>For Work In Restricted Working Space, Add</i>	22.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
<i>For Elevated Installation &gt;40', Add</i>	40.89	
26 05 33 13-0397 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	641.01	37.17
<i>For Work In Restricted Working Space, Add</i>	27.88	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.29	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	23.23	
<i>For Elevated Installation &gt;25' To 30', Add</i>	32.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	37.17	
<i>For Elevated Installation &gt;35' To 40', Add</i>	46.46	
<i>For Elevated Installation &gt;40', Add</i>	51.11	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0398 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	984.16	44.60
<i>For Work In Restricted Working Space, Add</i>	33.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.15	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.30	
<i>For Elevated Installation &gt;20' To 25', Add</i>	27.88	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.03	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.61	
<i>For Elevated Installation &gt;35' To 40', Add</i>	55.76	
<i>For Elevated Installation &gt;40', Add</i>	61.34	
26 05 33 13-0399 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,065.44	48.32
<i>For Work In Restricted Working Space, Add</i>	36.24	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.08	
<i>For Elevated Installation &gt;15' To 20', Add</i>	24.16	
<i>For Elevated Installation &gt;20' To 25', Add</i>	30.20	
<i>For Elevated Installation &gt;25' To 30', Add</i>	42.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	48.32	
<i>For Elevated Installation &gt;35' To 40', Add</i>	60.40	
<i>For Elevated Installation &gt;40', Add</i>	66.43	
26 05 33 13-0400 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,487.70	59.47
<i>For Work In Restricted Working Space, Add</i>	44.60	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	37.17	
<i>For Elevated Installation &gt;25' To 30', Add</i>	52.04	
<i>For Elevated Installation &gt;30' To 35', Add</i>	59.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	74.34	
<i>For Elevated Installation &gt;40', Add</i>	81.77	
26 05 33 13-0401 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,838.38	65.98
<i>For Work In Restricted Working Space, Add</i>	49.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.26	
<i>For Elevated Installation &gt;25' To 30', Add</i>	57.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	82.52	
<i>For Elevated Installation &gt;40', Add</i>	90.77	
<b>26 05 33 13-0402 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement</b> <small>(26 05 33 13-0059)</small>		
Note: Type EX		
26 05 33 13-0403 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	121.93	14.87
<i>For Work In Restricted Working Space, Add</i>	11.15	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.72	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.44	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.01	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.87	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.59	
<i>For Elevated Installation &gt;40', Add</i>	20.45	
26 05 33 13-0404 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	153.86	16.73
<i>For Work In Restricted Working Space, Add</i>	12.55	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.36	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.64	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.91	
<i>For Elevated Installation &gt;40', Add</i>	23.00	
26 05 33 13-0405 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	191.50	18.59
<i>For Work In Restricted Working Space, Add</i>	13.94	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
<i>For Elevated Installation &gt;40', Add</i>	25.56	
26 05 33 13-0406 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	232.94	20.44
<i>For Work In Restricted Working Space, Add</i>	15.34	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.45	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
<i>For Elevated Installation &gt;40', Add</i>	28.12	
26 05 33 13-0407 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	313.93	22.31
<i>For Work In Restricted Working Space, Add</i>	16.73	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
<i>For Elevated Installation &gt;40', Add</i>	30.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0408 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	432.69	24.16
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
26 05 33 13-0409 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	672.55	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
26 05 33 13-0410 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	906.69	37.17
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
26 05 33 13-0411 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,362.04	44.60
For Work In Restricted Working Space, Add	33.46	
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.30	
For Elevated Installation >20' To 25', Add	27.88	
For Elevated Installation >25' To 30', Add	39.03	
For Elevated Installation >30' To 35', Add	44.61	
For Elevated Installation >35' To 40', Add	55.76	
For Elevated Installation >40', Add	61.34	
26 05 33 13-0412 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,409.64	48.32
For Work In Restricted Working Space, Add	36.24	
For Elevated Installation >10' To 15', Add	12.08	
For Elevated Installation >15' To 20', Add	24.16	
For Elevated Installation >20' To 25', Add	30.20	
For Elevated Installation >25' To 30', Add	42.28	
For Elevated Installation >30' To 35', Add	48.32	
For Elevated Installation >35' To 40', Add	60.40	
For Elevated Installation >40', Add	66.43	
26 05 33 13-0413 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,122.17	59.47
For Work In Restricted Working Space, Add	44.60	
For Elevated Installation >10' To 15', Add	14.87	
For Elevated Installation >15' To 20', Add	29.74	
For Elevated Installation >20' To 25', Add	37.17	
For Elevated Installation >25' To 30', Add	52.04	
For Elevated Installation >30' To 35', Add	59.47	
For Elevated Installation >35' To 40', Add	74.34	
For Elevated Installation >40', Add	81.77	
26 05 33 13-0414 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,631.26	65.98
For Work In Restricted Working Space, Add	49.51	
For Elevated Installation >10' To 15', Add	16.50	
For Elevated Installation >15' To 20', Add	33.01	
For Elevated Installation >20' To 25', Add	41.26	
For Elevated Installation >25' To 30', Add	57.76	
For Elevated Installation >30' To 35', Add	66.02	
For Elevated Installation >35' To 40', Add	82.52	
For Elevated Installation >40', Add	90.77	
<b>26 05 33 13-0415 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings</b> <small>(26 05 33 13-0059)</small>		
Note: Type DX		
26 05 33 13-0416 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	212.50	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.45	
26 05 33 13-0417 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	253.18	16.73
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0418	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	306.12	18.59
			<i>For Work In Restricted Working Space, Add</i>	13.94	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
			<i>For Elevated Installation &gt;40', Add</i>	25.56	
26 05 33	13-0419	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	359.94	20.44
			<i>For Work In Restricted Working Space, Add</i>	15.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.45	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
			<i>For Elevated Installation &gt;40', Add</i>	28.12	
26 05 33	13-0420	EA	1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	398.04	22.31
			<i>For Work In Restricted Working Space, Add</i>	16.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
			<i>For Elevated Installation &gt;40', Add</i>	30.67	
26 05 33	13-0421	EA	2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	492.09	24.16
			<i>For Work In Restricted Working Space, Add</i>	18.12	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
			<i>For Elevated Installation &gt;40', Add</i>	33.22	
26 05 33	13-0422	EA	2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	650.49	29.73
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
26 05 33	13-0423	EA	3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	824.97	37.17
			<i>For Work In Restricted Working Space, Add</i>	27.88	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.29	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.23	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	32.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	37.17	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	46.46	
			<i>For Elevated Installation &gt;40', Add</i>	51.11	
26 05 33	13-0424	EA	3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	928.14	44.60
			<i>For Work In Restricted Working Space, Add</i>	33.46	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.15	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	27.88	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	55.76	
			<i>For Elevated Installation &gt;40', Add</i>	61.34	
26 05 33	13-0425	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,125.72	48.32
			<i>For Work In Restricted Working Space, Add</i>	36.24	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.08	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	24.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	30.20	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	42.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	48.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	60.40	
			<i>For Elevated Installation &gt;40', Add</i>	66.43	
26 05 33	13-0426	EA	5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,926.39	59.47
			<i>For Work In Restricted Working Space, Add</i>	44.60	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.87	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	29.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	37.17	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	52.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	59.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	74.34	
			<i>For Elevated Installation &gt;40', Add</i>	81.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0427 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	3,064.23	65.98
For Work In Restricted Working Space, Add	49.51	
For Elevated Installation >10' To 15', Add	16.50	
For Elevated Installation >15' To 20', Add	33.01	
For Elevated Installation >20' To 25', Add	41.26	
For Elevated Installation >25' To 30', Add	57.76	
For Elevated Installation >30' To 35', Add	66.02	
For Elevated Installation >35' To 40', Add	82.52	
For Elevated Installation >40', Add	90.77	
<b>26 05 33 13-0428 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)</b>		
26 05 33 13-0429 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	54.74	7.44
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
26 05 33 13-0430 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper.....	63.03	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0431 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper.....	77.72	11.15
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0432 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper.....	109.19	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
26 05 33 13-0433 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper.....	165.45	22.31
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0434 EA 5" To 6" Conduit, 14" Bonding Jumper.....	282.74	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper.....	60.93	7.44
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper.....	70.85	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0437	EA	1-1/2" To 2" Conduit, 24" Bonding Jumper.....	84.88	11.15
			<i>For Work In Restricted Working Space, Add</i>	8.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
			<i>For Elevated Installation &gt;40', Add</i>	15.33	
26 05 33	13-0438	EA	2-1/2" To 3" Conduit, 24" Bonding Jumper.....	118.71	14.87
			<i>For Work In Restricted Working Space, Add</i>	11.15	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.72	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.01	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.87	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	18.59	
			<i>For Elevated Installation &gt;40', Add</i>	20.44	
26 05 33	13-0439	EA	3-1/2" To 4" Conduit, 24" Bonding Jumper.....	178.06	22.31
			<i>For Work In Restricted Working Space, Add</i>	16.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
			<i>For Elevated Installation &gt;40', Add</i>	30.67	
26 05 33	13-0440	EA	5" To 6" Conduit, 24" Bonding Jumper.....	323.43	29.73
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
<b>26 05 33 13-0441 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal</b> <small>(26 05 33 13-0059)</small>					
26 05 33	13-0442	EA	1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	72.59	23.23
			<i>For Work In Restricted Working Space, Add</i>	13.94	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
			<i>For Elevated Installation &gt;40', Add</i>	25.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.94	
26 05 33	13-0443	EA	3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	86.43	27.88
			<i>For Work In Restricted Working Space, Add</i>	16.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
			<i>For Elevated Installation &gt;40', Add</i>	30.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.73	
26 05 33	13-0444	EA	1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	104.47	32.53
			<i>For Work In Restricted Working Space, Add</i>	19.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
			<i>For Elevated Installation &gt;40', Add</i>	35.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33	13-0445	EA	1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	122.21	37.17
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0446 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	155.71	41.82
For Work In Restricted Working Space, Add	25.09	
For Elevated Installation >10' To 15', Add	8.36	
For Elevated Installation >15' To 20', Add	16.73	
For Elevated Installation >20' To 25', Add	20.91	
For Elevated Installation >25' To 30', Add	29.27	
For Elevated Installation >30' To 35', Add	33.46	
For Elevated Installation >35' To 40', Add	41.82	
For Elevated Installation >40', Add	46.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0447 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	186.30	46.47
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.88	
26 05 33 13-0448 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal.....	256.59	55.76
For Work In Restricted Working Space, Add	33.45	
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.30	
For Elevated Installation >20' To 25', Add	27.88	
For Elevated Installation >25' To 30', Add	39.03	
For Elevated Installation >30' To 35', Add	44.60	
For Elevated Installation >35' To 40', Add	55.76	
For Elevated Installation >40', Add	61.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.45	
26 05 33 13-0449 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	307.31	65.05
For Work In Restricted Working Space, Add	39.03	
For Elevated Installation >10' To 15', Add	13.01	
For Elevated Installation >15' To 20', Add	26.02	
For Elevated Installation >20' To 25', Add	32.52	
For Elevated Installation >25' To 30', Add	45.53	
For Elevated Installation >30' To 35', Add	52.04	
For Elevated Installation >35' To 40', Add	65.05	
For Elevated Installation >40', Add	71.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.03	
26 05 33 13-0450 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	659.79	74.34
For Work In Restricted Working Space, Add	44.60	
For Elevated Installation >10' To 15', Add	14.87	
For Elevated Installation >15' To 20', Add	29.74	
For Elevated Installation >20' To 25', Add	37.17	
For Elevated Installation >25' To 30', Add	52.04	
For Elevated Installation >30' To 35', Add	59.47	
For Elevated Installation >35' To 40', Add	74.34	
For Elevated Installation >40', Add	81.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.60	
26 05 33 13-0451 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	758.80	83.64
For Work In Restricted Working Space, Add	50.18	
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.90	
For Elevated Installation >35' To 40', Add	83.63	
For Elevated Installation >40', Add	91.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
<b>26 05 33 13-0452 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)</b>		
26 05 33 13-0453 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	11.97	5.57
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
26 05 33 13-0454 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	16.82	7.90
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.68	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0455 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling .....	22.01	10.22
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.18	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
26 05 33 13-0456 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling .....	25.21	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0457 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling .....	30.35	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0458 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling .....	35.29	15.79
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
26 05 33 13-0459 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling .....	43.59	17.66
For Work In Restricted Working Space, Add	10.59	
For Elevated Installation >10' To 15', Add	3.53	
For Elevated Installation >15' To 20', Add	7.06	
For Elevated Installation >20' To 25', Add	8.83	
For Elevated Installation >25' To 30', Add	12.36	
For Elevated Installation >30' To 35', Add	14.12	
For Elevated Installation >35' To 40', Add	17.66	
For Elevated Installation >40', Add	19.42	
26 05 33 13-0460 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling .....	50.71	19.98
For Work In Restricted Working Space, Add	11.99	
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	7.99	
For Elevated Installation >20' To 25', Add	9.99	
For Elevated Installation >25' To 30', Add	13.98	
For Elevated Installation >30' To 35', Add	15.98	
For Elevated Installation >35' To 40', Add	19.98	
For Elevated Installation >40', Add	21.97	
26 05 33 13-0461 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling .....	58.21	21.84
For Work In Restricted Working Space, Add	13.10	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
26 05 33 13-0462 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling .....	61.62	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
<b>26 05 33 13-0463 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0059)</b>		
26 05 33 13-0464 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut .....	2.57	0.93
26 05 33 13-0465 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut .....	3.63	1.39
26 05 33 13-0466 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut .....	6.03	2.32
26 05 33 13-0467 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut .....	8.65	3.26
26 05 33 13-0468 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut .....	10.28	3.72
26 05 33 13-0469 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut .....	11.99	4.18
<b>26 05 33 13-0470 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0059)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0471 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	132.24	11.28
For Work In Restricted Working Space, Add	8.46	
For Elevated Installation >10' To 15', Add	2.82	
For Elevated Installation >15' To 20', Add	5.64	
For Elevated Installation >20' To 25', Add	7.05	
For Elevated Installation >25' To 30', Add	9.87	
For Elevated Installation >30' To 35', Add	11.28	
For Elevated Installation >35' To 40', Add	14.10	
For Elevated Installation >40', Add	15.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.46	
26 05 33 13-0472 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	134.96	12.36
For Work In Restricted Working Space, Add	9.27	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.36	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.27	
26 05 33 13-0473 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	161.19	13.57
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0474 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	176.97	14.87
For Work In Restricted Working Space, Add	11.16	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.02	
For Elevated Installation >30' To 35', Add	14.88	
For Elevated Installation >35' To 40', Add	18.60	
For Elevated Installation >40', Add	20.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.16	
26 05 33 13-0475 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	201.77	16.73
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0476 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	294.96	18.59
For Work In Restricted Working Space, Add	13.95	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.30	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.27	
For Elevated Installation >30' To 35', Add	18.60	
For Elevated Installation >35' To 40', Add	23.25	
For Elevated Installation >40', Add	25.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.95	
26 05 33 13-0477 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	341.52	24.81
For Work In Restricted Working Space, Add	18.60	
For Elevated Installation >10' To 15', Add	6.20	
For Elevated Installation >15' To 20', Add	12.40	
For Elevated Installation >20' To 25', Add	15.50	
For Elevated Installation >25' To 30', Add	21.70	
For Elevated Installation >30' To 35', Add	24.80	
For Elevated Installation >35' To 40', Add	31.00	
For Elevated Installation >40', Add	34.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.60	
26 05 33 13-0478 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	378.70	27.23
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15', Add	6.81	
For Elevated Installation >15' To 20', Add	13.62	
For Elevated Installation >20' To 25', Add	17.03	
For Elevated Installation >25' To 30', Add	23.84	
For Elevated Installation >30' To 35', Add	27.24	
For Elevated Installation >35' To 40', Add	34.06	
For Elevated Installation >40', Add	37.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0479 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	439.30	29.73
For Work In Restricted Working Space, Add	22.31	
For Elevated Installation >10' To 15', Add	7.44	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.03	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.18	
For Elevated Installation >40', Add	40.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.31	
26 05 33 13-0480 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	495.17	33.45
For Work In Restricted Working Space, Add	25.09	
For Elevated Installation >10' To 15', Add	8.36	
For Elevated Installation >15' To 20', Add	16.73	
For Elevated Installation >20' To 25', Add	20.91	
For Elevated Installation >25' To 30', Add	29.27	
For Elevated Installation >30' To 35', Add	33.46	
For Elevated Installation >35' To 40', Add	41.82	
For Elevated Installation >40', Add	46.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0481 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	659.75	37.17
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.88	
26 05 33 13-0482 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting .....	817.51	41.26
For Work In Restricted Working Space, Add	30.95	
For Elevated Installation >10' To 15', Add	10.32	
For Elevated Installation >15' To 20', Add	20.63	
For Elevated Installation >20' To 25', Add	25.79	
For Elevated Installation >25' To 30', Add	36.10	
For Elevated Installation >30' To 35', Add	41.26	
For Elevated Installation >35' To 40', Add	51.58	
For Elevated Installation >40', Add	56.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.95	
<b>26 05 33 13-0483 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0059)</b>		
26 05 33 13-0484 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	14.96	7.21
For Work In Restricted Working Space, Add	4.32	
For Elevated Installation >10' To 15', Add	1.44	
For Elevated Installation >15' To 20', Add	2.88	
For Elevated Installation >20' To 25', Add	3.60	
For Elevated Installation >25' To 30', Add	5.04	
For Elevated Installation >30' To 35', Add	5.76	
For Elevated Installation >35' To 40', Add	7.20	
For Elevated Installation >40', Add	7.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.32	
26 05 33 13-0485 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	16.36	7.67
For Work In Restricted Working Space, Add	4.60	
For Elevated Installation >10' To 15', Add	1.53	
For Elevated Installation >15' To 20', Add	3.07	
For Elevated Installation >20' To 25', Add	3.83	
For Elevated Installation >25' To 30', Add	5.37	
For Elevated Installation >30' To 35', Add	6.13	
For Elevated Installation >35' To 40', Add	7.67	
For Elevated Installation >40', Add	8.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.60	
26 05 33 13-0486 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	16.82	7.90
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.74	
26 05 33 13-0487 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	18.93	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0488 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	19.40	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0489 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....	20.33	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0490 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	21.82	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.58	
26 05 33 13-0491 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	22.28	9.52
For Work In Restricted Working Space, Add	5.72	
For Elevated Installation >10' To 15', Add	1.91	
For Elevated Installation >15' To 20', Add	3.81	
For Elevated Installation >20' To 25', Add	4.76	
For Elevated Installation >25' To 30', Add	6.67	
For Elevated Installation >30' To 35', Add	7.62	
For Elevated Installation >35' To 40', Add	9.53	
For Elevated Installation >40', Add	10.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.72	
26 05 33 13-0492 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....	23.21	9.99
For Work In Restricted Working Space, Add	5.99	
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.00	
For Elevated Installation >20' To 25', Add	5.00	
For Elevated Installation >25' To 30', Add	6.99	
For Elevated Installation >30' To 35', Add	7.99	
For Elevated Installation >35' To 40', Add	9.99	
For Elevated Installation >40', Add	10.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.99	
26 05 33 13-0493 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	24.13	10.45
For Work In Restricted Working Space, Add	6.27	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.18	
For Elevated Installation >20' To 25', Add	5.23	
For Elevated Installation >25' To 30', Add	7.32	
For Elevated Installation >30' To 35', Add	8.36	
For Elevated Installation >35' To 40', Add	10.45	
For Elevated Installation >40', Add	11.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0494 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	28.00	10.45
For Work In Restricted Working Space, Add	6.27	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.18	
For Elevated Installation >20' To 25', Add	5.23	
For Elevated Installation >25' To 30', Add	7.32	
For Elevated Installation >30' To 35', Add	8.36	
For Elevated Installation >35' To 40', Add	10.45	
For Elevated Installation >40', Add	11.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0495 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	28.47	10.68
For Work In Restricted Working Space, Add	6.41	
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.27	
For Elevated Installation >20' To 25', Add	5.34	
For Elevated Installation >25' To 30', Add	7.48	
For Elevated Installation >30' To 35', Add	8.55	
For Elevated Installation >35' To 40', Add	10.69	
For Elevated Installation >40', Add	11.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0496	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	29.41	11.15
			<i>For Work In Restricted Working Space, Add</i>	6.69	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.23	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.46	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.58	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.81	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.92	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.16	
			<i>For Elevated Installation &gt;40', Add</i>	12.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.69	
26 05 33	13-0497	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	30.33	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0498	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	32.65	12.78
			<i>For Work In Restricted Working Space, Add</i>	7.67	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.56	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.94	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.78	
			<i>For Elevated Installation &gt;40', Add</i>	14.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.67	
26 05 33	13-0499	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	40.71	15.10
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-0500		<b>Rigid Galvanized Steel (RGS) Locknuts</b> (26 05 33 13-0059)		
26 05 33	13-0501	EA	1/2" Rigid Galvanized Steel (RGS) Locknuts	1.90	0.93
			<i>For Work In Restricted Working Space, Add</i>	0.56	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.19	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	0.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	0.65	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	0.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	0.93	
			<i>For Elevated Installation &gt;40', Add</i>	1.02	
26 05 33	13-0502	EA	3/4" Rigid Galvanized Steel (RGS) Locknuts	2.86	1.39
			<i>For Work In Restricted Working Space, Add</i>	0.84	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	0.70	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	0.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	1.40	
			<i>For Elevated Installation &gt;40', Add</i>	1.53	
26 05 33	13-0503	EA	1" Rigid Galvanized Steel (RGS) Locknuts	4.77	2.32
			<i>For Work In Restricted Working Space, Add</i>	1.40	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.33	
			<i>For Elevated Installation &gt;40', Add</i>	2.56	
26 05 33	13-0504	EA	1-1/4" Rigid Galvanized Steel (RGS) Locknuts	6.70	3.26
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
			<i>For Elevated Installation &gt;40', Add</i>	3.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0505 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts .....	7.70	3.72
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.60	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.72	
For Elevated Installation >40', Add	4.09	
26 05 33 13-0506 EA 2" Rigid Galvanized Steel (RGS) Locknuts .....	8.69	4.18
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.67	
For Elevated Installation >20' To 25', Add	2.09	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.35	
For Elevated Installation >35' To 40', Add	4.19	
For Elevated Installation >40', Add	4.60	
26 05 33 13-0507 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts .....	11.99	5.57
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
26 05 33 13-0508 EA 3" Rigid Galvanized Steel (RGS) Locknuts .....	14.87	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
26 05 33 13-0509 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts .....	17.33	7.90
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.68	
26 05 33 13-0510 EA 4" Rigid Galvanized Steel (RGS) Locknuts .....	19.44	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
<b>26 05 33 13-0511 Rigid Galvanized Steel (RGS) Grounding Locknuts</b> (26 05 33 13-0059)		
26 05 33 13-0512 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	2.62	0.93
For Work In Restricted Working Space, Add	0.56	
For Elevated Installation >10' To 15', Add	0.19	
For Elevated Installation >15' To 20', Add	0.37	
For Elevated Installation >20' To 25', Add	0.46	
For Elevated Installation >25' To 30', Add	0.65	
For Elevated Installation >30' To 35', Add	0.74	
For Elevated Installation >35' To 40', Add	0.93	
For Elevated Installation >40', Add	1.02	
26 05 33 13-0513 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	3.71	1.39
For Work In Restricted Working Space, Add	0.84	
For Elevated Installation >10' To 15', Add	0.28	
For Elevated Installation >15' To 20', Add	0.56	
For Elevated Installation >20' To 25', Add	0.70	
For Elevated Installation >25' To 30', Add	0.98	
For Elevated Installation >30' To 35', Add	1.12	
For Elevated Installation >35' To 40', Add	1.40	
For Elevated Installation >40', Add	1.53	
26 05 33 13-0514 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	5.97	2.32
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0515 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	8.34	3.26
For Work In Restricted Working Space, Add	1.95	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
26 05 33 13-0516 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	9.45	3.72
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.60	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.72	
For Elevated Installation >40', Add	4.09	
26 05 33 13-0517 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	10.99	4.18
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.67	
For Elevated Installation >20' To 25', Add	2.09	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.35	
For Elevated Installation >35' To 40', Add	4.19	
For Elevated Installation >40', Add	4.60	
26 05 33 13-0518 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	16.03	5.57
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
26 05 33 13-0519 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	20.13	6.96
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
26 05 33 13-0520 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	25.84	7.90
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.68	
26 05 33 13-0521 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	30.62	8.83
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
<b>26 05 33 13-0522 Rigid Galvanized Steel (RGS) Insulated Ground Bushing</b> <small>(26 05 33 13-0059)</small>		
26 05 33 13-0523 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	7.49	2.79
For Work In Restricted Working Space, Add	1.67	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.95	
For Elevated Installation >30' To 35', Add	2.23	
For Elevated Installation >35' To 40', Add	2.79	
For Elevated Installation >40', Add	3.06	
26 05 33 13-0524 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	9.53	3.72
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.60	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.72	
For Elevated Installation >40', Add	4.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0525 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	12.10	4.65
For Work In Restricted Working Space, Add	2.79	
For Elevated Installation >10' To 15', Add	0.93	
For Elevated Installation >15' To 20', Add	1.86	
For Elevated Installation >20' To 25', Add	2.32	
For Elevated Installation >25' To 30', Add	3.25	
For Elevated Installation >30' To 35', Add	3.72	
For Elevated Installation >35' To 40', Add	4.65	
For Elevated Installation >40', Add	5.11	
26 05 33 13-0526 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	18.01	7.44
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.72	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.95	
For Elevated Installation >35' To 40', Add	7.44	
For Elevated Installation >40', Add	8.18	
26 05 33 13-0527 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	20.28	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
26 05 33 13-0528 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	22.94	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
26 05 33 13-0529 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	30.73	11.15
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.46	
For Elevated Installation >20' To 25', Add	5.58	
For Elevated Installation >25' To 30', Add	7.81	
For Elevated Installation >30' To 35', Add	8.92	
For Elevated Installation >35' To 40', Add	11.16	
For Elevated Installation >40', Add	12.27	
26 05 33 13-0530 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	37.52	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0531 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	47.13	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
26 05 33 13-0532 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	57.73	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
<b>26 05 33 13-0533 Rigid Galvanized Steel (RGS) Threadless Compression Connectors</b> <small>(26 05 33 13-0059)</small>		
26 05 33 13-0534 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	19.31	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0535 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	22.75	9.29
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
26 05 33 13-0536 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	29.73	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0537 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	40.11	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0538 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	54.10	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
26 05 33 13-0539 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	78.96	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
26 05 33 13-0540 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	130.71	27.88
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0541 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	164.42	32.53
For Work In Restricted Working Space, Add	19.52	
For Elevated Installation >10' To 15', Add	6.51	
For Elevated Installation >15' To 20', Add	13.01	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.77	
For Elevated Installation >30' To 35', Add	26.02	
For Elevated Installation >35' To 40', Add	32.53	
For Elevated Installation >40', Add	35.78	
26 05 33 13-0542 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	208.85	39.49
For Work In Restricted Working Space, Add	23.70	
For Elevated Installation >10' To 15', Add	7.90	
For Elevated Installation >15' To 20', Add	15.80	
For Elevated Installation >20' To 25', Add	19.75	
For Elevated Installation >25' To 30', Add	27.65	
For Elevated Installation >30' To 35', Add	31.60	
For Elevated Installation >35' To 40', Add	39.50	
For Elevated Installation >40', Add	43.44	
26 05 33 13-0543 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	251.90	46.47
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	

26 05 33 13-0544 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	27.40	11.61
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0546 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling .....	34.56	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0547 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling .....	48.83	18.59
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
26 05 33 13-0548 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling .....	63.73	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
26 05 33 13-0549 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	78.23	27.88
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0550 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling .....	114.19	32.53
For Work In Restricted Working Space, Add	19.52	
For Elevated Installation >10' To 15', Add	6.51	
For Elevated Installation >15' To 20', Add	13.01	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.77	
For Elevated Installation >30' To 35', Add	26.02	
For Elevated Installation >35' To 40', Add	32.53	
For Elevated Installation >40', Add	35.78	
26 05 33 13-0551 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	177.85	37.17
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
26 05 33 13-0552 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling .....	201.24	32.06
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
26 05 33 13-0553 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	278.09	48.78
For Work In Restricted Working Space, Add	29.27	
For Elevated Installation >10' To 15', Add	9.76	
For Elevated Installation >15' To 20', Add	19.51	
For Elevated Installation >20' To 25', Add	24.39	
For Elevated Installation >25' To 30', Add	34.15	
For Elevated Installation >30' To 35', Add	39.03	
For Elevated Installation >35' To 40', Add	48.79	
For Elevated Installation >40', Add	53.66	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0554	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling .....	342.50	55.76
			<i>For Work In Restricted Working Space, Add</i>	33.45	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.15	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	27.88	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.60	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	55.76	
			<i>For Elevated Installation &gt;40', Add</i>	61.33	
<b>26 05 33</b>	<b>13-0555</b>		<b>Zinc Plated Steel Snap-in Knock Out Seal</b> <small>(26 05 33 13-0059)</small>		
26 05 33	13-0556	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal.....	4.81	2.32
			<i>For Work In Restricted Working Space, Add</i>	1.40	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.33	
			<i>For Elevated Installation &gt;40', Add</i>	2.56	
26 05 33	13-0557	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal.....	5.78	2.79
			<i>For Work In Restricted Working Space, Add</i>	1.67	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.56	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.95	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.23	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.79	
			<i>For Elevated Installation &gt;40', Add</i>	3.06	
26 05 33	13-0558	EA	1" Zinc Plated Steel Snap-in Knock Out Seal.....	6.84	3.26
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
			<i>For Elevated Installation &gt;40', Add</i>	3.58	
26 05 33	13-0559	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal .....	8.82	4.18
			<i>For Work In Restricted Working Space, Add</i>	2.51	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.09	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.93	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	3.35	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	4.19	
			<i>For Elevated Installation &gt;40', Add</i>	4.60	
26 05 33	13-0560	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal .....	9.91	4.65
			<i>For Work In Restricted Working Space, Add</i>	2.79	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.93	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.86	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	3.72	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	4.65	
			<i>For Elevated Installation &gt;40', Add</i>	5.11	
26 05 33	13-0561	EA	2" Zinc Plated Steel Snap-in Knock Out Seal.....	12.02	5.57
			<i>For Work In Restricted Working Space, Add</i>	3.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	5.58	
			<i>For Elevated Installation &gt;40', Add</i>	6.13	
<b>26 05 33</b>	<b>13-0562</b>		<b>Zinc Plated Steel 3-Piece Knock Out Seal</b> <small>(26 05 33 13-0059)</small>		
26 05 33	13-0563	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	5.63	2.32
			<i>For Work In Restricted Working Space, Add</i>	1.40	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.33	
			<i>For Elevated Installation &gt;40', Add</i>	2.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0564 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	6.70	2.79
<i>For Work In Restricted Working Space, Add</i>	1.67	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.56	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	1.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.23	
<i>For Elevated Installation &gt;35' To 40', Add</i>	2.79	
<i>For Elevated Installation &gt;40', Add</i>	3.06	
26 05 33 13-0565 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal.....	8.07	3.26
<i>For Work In Restricted Working Space, Add</i>	1.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
<i>For Elevated Installation &gt;40', Add</i>	3.58	
26 05 33 13-0566 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	10.39	4.18
<i>For Work In Restricted Working Space, Add</i>	2.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.09	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.93	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.35	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.19	
<i>For Elevated Installation &gt;40', Add</i>	4.60	
26 05 33 13-0567 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	12.51	4.65
<i>For Work In Restricted Working Space, Add</i>	2.79	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.93	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.86	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.32	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.72	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.65	
<i>For Elevated Installation &gt;40', Add</i>	5.11	
26 05 33 13-0568 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal.....	15.11	5.57
<i>For Work In Restricted Working Space, Add</i>	3.35	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.58	
<i>For Elevated Installation &gt;40', Add</i>	6.13	
26 05 33 13-0569 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	18.60	6.96
<i>For Work In Restricted Working Space, Add</i>	4.18	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.39	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.79	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.49	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.88	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.97	
<i>For Elevated Installation &gt;40', Add</i>	7.67	
26 05 33 13-0570 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal.....	21.61	7.90
<i>For Work In Restricted Working Space, Add</i>	4.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.58	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.16	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.95	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.53	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.32	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.90	
<i>For Elevated Installation &gt;40', Add</i>	8.68	
26 05 33 13-0571 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	25.86	8.83
<i>For Work In Restricted Working Space, Add</i>	5.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.77	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.53	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.18	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.83	
<i>For Elevated Installation &gt;40', Add</i>	9.71	
26 05 33 13-0572 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal.....	30.03	9.76
<i>For Work In Restricted Working Space, Add</i>	5.85	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.95	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.90	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.88	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.83	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.80	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.76	
<i>For Elevated Installation &gt;40', Add</i>	10.73	

26 05 33 13-0573 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0574	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....	11.40	5.57
			<i>For Work In Restricted Working Space, Add</i>	3.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	5.58	
			<i>For Elevated Installation &gt;40', Add</i>	6.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.35	
26 05 33	13-0575	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple .....	13.43	6.50
			<i>For Work In Restricted Working Space, Add</i>	3.90	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.25	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.55	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.51	
			<i>For Elevated Installation &gt;40', Add</i>	7.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 05 33	13-0576	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple .....	16.70	7.90
			<i>For Work In Restricted Working Space, Add</i>	4.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.53	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.90	
			<i>For Elevated Installation &gt;40', Add</i>	8.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.74	
26 05 33	13-0577	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple .....	20.17	9.29
			<i>For Work In Restricted Working Space, Add</i>	5.58	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.86	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.72	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.51	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.30	
			<i>For Elevated Installation &gt;40', Add</i>	10.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.58	
26 05 33	13-0578	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....	25.27	11.61
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-0579	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple .....	31.18	13.94
			<i>For Work In Restricted Working Space, Add</i>	8.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
			<i>For Elevated Installation &gt;40', Add</i>	15.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.36	
26 05 33	13-0580	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....	38.81	16.26
			<i>For Work In Restricted Working Space, Add</i>	9.76	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.51	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.13	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.01	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.27	
			<i>For Elevated Installation &gt;40', Add</i>	17.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.76	
26 05 33	13-0581	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple .....	43.61	18.59
			<i>For Work In Restricted Working Space, Add</i>	11.15	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.72	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.01	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.87	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	18.59	
			<i>For Elevated Installation &gt;40', Add</i>	20.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.15	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0582 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	53.21	20.90
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0583 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	70.34	23.23
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
<b>26 05 33 13-0584 Rigid Galvanized Steel (RGS) Pulling Elbow</b> <small>(26 05 33 13-0059)</small>		
26 05 33 13-0585 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	21.06	8.37
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
26 05 33 13-0586 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	24.48	9.76
For Work In Restricted Working Space, Add	5.85	
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.76	
For Elevated Installation >40', Add	10.73	
26 05 33 13-0587 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	30.56	11.15
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.46	
For Elevated Installation >20' To 25', Add	5.58	
For Elevated Installation >25' To 30', Add	7.81	
For Elevated Installation >30' To 35', Add	8.92	
For Elevated Installation >35' To 40', Add	11.16	
For Elevated Installation >40', Add	12.27	
26 05 33 13-0588 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	38.99	13.94
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0589 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	51.09	16.73
For Work In Restricted Working Space, Add	10.04	
For Elevated Installation >10' To 15', Add	3.35	
For Elevated Installation >15' To 20', Add	6.69	
For Elevated Installation >20' To 25', Add	8.36	
For Elevated Installation >25' To 30', Add	11.71	
For Elevated Installation >30' To 35', Add	13.38	
For Elevated Installation >35' To 40', Add	16.73	
For Elevated Installation >40', Add	18.40	
26 05 33 13-0590 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	66.95	19.51
For Work In Restricted Working Space, Add	11.71	
For Elevated Installation >10' To 15', Add	3.90	
For Elevated Installation >15' To 20', Add	7.81	
For Elevated Installation >20' To 25', Add	9.76	
For Elevated Installation >25' To 30', Add	13.66	
For Elevated Installation >30' To 35', Add	15.61	
For Elevated Installation >35' To 40', Add	19.52	
For Elevated Installation >40', Add	21.47	
26 05 33 13-0591 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	90.69	22.31
For Work In Restricted Working Space, Add	13.38	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.92	
For Elevated Installation >20' To 25', Add	11.15	
For Elevated Installation >25' To 30', Add	15.61	
For Elevated Installation >30' To 35', Add	17.84	
For Elevated Installation >35' To 40', Add	22.30	
For Elevated Installation >40', Add	24.53	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0592 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow .....	153.40	27.88
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
<b>26 05 33 13-0593 Electrical Metallic Tubing (EMT) Thinwall Conduit</b> <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
<b>26 05 33 13-0594 Electrical Metallic Tubing (EMT) Thinwall Conduit</b> <small>(26 05 33 13-0593)</small>		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0595 LF 1/2" Electrical Metallic Tubing (EMT) Conduit .....	4.64	1.67
For >250 To 500, Deduct	-0.02	
For >500 To 1,000, Deduct	-0.24	
For >1,000, Deduct	-0.36	
For Installation In Metal Stud Wall, Add	0.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.05	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
For Work In Restricted Working Space, Add	1.25	
For Elevated Installation >10' To 15', Add	0.42	
For Elevated Installation >15' To 20', Add	0.84	
For Elevated Installation >20' To 25', Add	1.05	
For Elevated Installation >25' To 30', Add	1.46	
For Elevated Installation >30' To 35', Add	1.67	
For Elevated Installation >35' To 40', Add	2.09	
For Elevated Installation >40', Add	2.30	
For Factory Applied Color Coating, Add	0.14	
26 05 33 13-0596 LF 3/4" Electrical Metallic Tubing (EMT) Conduit .....	5.37	1.85
For >250 To 500, Deduct	-0.04	
For >500 To 1,000, Deduct	-0.29	
For >1,000, Deduct	-0.42	
For Installation In Metal Stud Wall, Add	0.47	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.16	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.70	
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	
For Factory Applied Color Coating, Add	0.22	
26 05 33 13-0597 LF 1" Electrical Metallic Tubing (EMT) Conduit .....	6.32	2.04
For >250 To 500, Deduct	-0.06	
For >500 To 1,000, Deduct	-0.35	
For >1,000, Deduct	-0.50	
For Installation In Metal Stud Wall, Add	0.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.28	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.77	
For Work In Restricted Working Space, Add	1.53	
For Elevated Installation >10' To 15', Add	0.51	
For Elevated Installation >15' To 20', Add	1.02	
For Elevated Installation >20' To 25', Add	1.28	
For Elevated Installation >25' To 30', Add	1.79	
For Elevated Installation >30' To 35', Add	2.04	
For Elevated Installation >35' To 40', Add	2.56	
For Elevated Installation >40', Add	2.81	
For Factory Applied Color Coating, Add	0.36	
26 05 33 13-0598 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit .....	7.66	2.30
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.43	
For >1,000, Deduct	-0.62	
For Installation In Metal Stud Wall, Add	0.58	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.44	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.86	
For Work In Restricted Working Space, Add	1.73	
For Elevated Installation >10' To 15', Add	0.58	
For Elevated Installation >15' To 20', Add	1.15	
For Elevated Installation >20' To 25', Add	1.44	
For Elevated Installation >25' To 30', Add	2.02	
For Elevated Installation >30' To 35', Add	2.30	
For Elevated Installation >35' To 40', Add	2.88	
For Elevated Installation >40', Add	3.17	
For Factory Applied Color Coating, Add	0.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0599 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	8.87	2.61
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.72	
For Installation In Metal Stud Wall, Add	0.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.98	
For Work In Restricted Working Space, Add	1.95	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
For Factory Applied Color Coating, Add	0.71	
26 05 33 13-0600 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	10.25	2.98
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.58	
For >1,000, Deduct	-0.84	
For Installation In Metal Stud Wall, Add	0.74	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.86	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.12	
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.60	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.72	
For Elevated Installation >40', Add	4.09	
For Factory Applied Color Coating, Add	0.84	
26 05 33 13-0601 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit.....	12.99	3.53
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.75	
For >1,000, Deduct	-1.08	
For Installation In Metal Stud Wall, Add	0.88	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.32	
For Work In Restricted Working Space, Add	2.65	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.77	
For Elevated Installation >20' To 25', Add	2.21	
For Elevated Installation >25' To 30', Add	3.09	
For Elevated Installation >30' To 35', Add	3.53	
For Elevated Installation >35' To 40', Add	4.42	
For Elevated Installation >40', Add	4.86	
For Factory Applied Color Coating, Add	1.25	
26 05 33 13-0602 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	15.43	4.09
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.90	
For >1,000, Deduct	-1.29	
For Installation In Metal Stud Wall, Add	1.02	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.56	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.53	
For Work In Restricted Working Space, Add	3.07	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.04	
For Elevated Installation >20' To 25', Add	2.56	
For Elevated Installation >25' To 30', Add	3.58	
For Elevated Installation >30' To 35', Add	4.09	
For Elevated Installation >35' To 40', Add	5.11	
For Elevated Installation >40', Add	5.62	
For Factory Applied Color Coating, Add	1.56	
26 05 33 13-0603 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	19.04	4.83
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-1.13	
For >1,000, Deduct	-1.60	
For Installation In Metal Stud Wall, Add	1.21	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.02	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.81	
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Factory Applied Color Coating, Add	2.09	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0604 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	24.65	7.01
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-1.41	
For >1,000, Deduct	-2.03	
For Installation In Metal Stud Wall, Add	1.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.38	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.63	
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Factory Applied Color Coating, Add	2.14	
<b>26 05 33 13-0605 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0593)</b>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
<b>26 05 33 13-0606 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0593)</b>		
26 05 33 13-0607 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	4.81	2.23
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	
26 05 33 13-0608 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.80	2.23
For Work In Restricted Working Space, Add	1.67	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.95	
For Elevated Installation >30' To 35', Add	2.23	
For Elevated Installation >35' To 40', Add	2.79	
For Elevated Installation >40', Add	3.06	
26 05 33 13-0609 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.85	2.61
For Work In Restricted Working Space, Add	1.95	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
26 05 33 13-0610 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.13	3.35
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.67	
For Elevated Installation >20' To 25', Add	2.09	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.34	
For Elevated Installation >35' To 40', Add	4.18	
For Elevated Installation >40', Add	4.60	
26 05 33 13-0611 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	11.24	4.09
For Work In Restricted Working Space, Add	3.07	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.04	
For Elevated Installation >20' To 25', Add	2.56	
For Elevated Installation >25' To 30', Add	3.58	
For Elevated Installation >30' To 35', Add	4.09	
For Elevated Installation >35' To 40', Add	5.11	
For Elevated Installation >40', Add	5.62	
26 05 33 13-0612 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	15.30	5.57
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
26 05 33 13-0613 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	20.97	7.44
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	26.93	8.55
<i>For Work In Restricted Working Space, Add</i>	6.97	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
<i>For Elevated Installation &gt;40', Add</i>	12.78	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	30.81	9.29
<i>For Work In Restricted Working Space, Add</i>	8.36	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
<i>For Elevated Installation &gt;40', Add</i>	15.33	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	87.49	25.41
<i>For Work In Restricted Working Space, Add</i>	24.68	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.23	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.45	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.91	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.14	
<i>For Elevated Installation &gt;40', Add</i>	45.25	
<b>26 05 33 13-0617 Electrical Metallic Tubing (EMT) Compression Couplings</b> <small>(26 05 33 13-0593)</small>		
26 05 33 13-0618 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	5.96	2.23
<i>For Work In Restricted Working Space, Add</i>	1.67	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.56	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	1.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.23	
<i>For Elevated Installation &gt;35' To 40', Add</i>	2.79	
<i>For Elevated Installation &gt;40', Add</i>	3.06	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	6.93	2.61
<i>For Work In Restricted Working Space, Add</i>	1.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
<i>For Elevated Installation &gt;40', Add</i>	3.58	
26 05 33 13-0620 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.89	3.72
<i>For Work In Restricted Working Space, Add</i>	2.79	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.93	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.86	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.32	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.72	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.65	
<i>For Elevated Installation &gt;40', Add</i>	5.11	
26 05 33 13-0621 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	12.40	4.46
<i>For Work In Restricted Working Space, Add</i>	3.35	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.58	
<i>For Elevated Installation &gt;40', Add</i>	6.13	
26 05 33 13-0622 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	14.77	5.20
<i>For Work In Restricted Working Space, Add</i>	3.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.51	
<i>For Elevated Installation &gt;40', Add</i>	7.16	
26 05 33 13-0623 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	19.50	6.69
<i>For Work In Restricted Working Space, Add</i>	5.02	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.18	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.69	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.37	
<i>For Elevated Installation &gt;40', Add</i>	9.20	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0624 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling .....	29.54	8.92
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.46	
For Elevated Installation >20' To 25', Add	5.58	
For Elevated Installation >25' To 30', Add	7.81	
For Elevated Installation >30' To 35', Add	8.92	
For Elevated Installation >35' To 40', Add	11.16	
For Elevated Installation >40', Add	12.27	
26 05 33 13-0625 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling .....	34.22	10.41
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15', Add	2.60	
For Elevated Installation >15' To 20', Add	5.20	
For Elevated Installation >20' To 25', Add	6.50	
For Elevated Installation >25' To 30', Add	9.10	
For Elevated Installation >30' To 35', Add	10.40	
For Elevated Installation >35' To 40', Add	13.01	
For Elevated Installation >40', Add	14.31	
26 05 33 13-0626 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling .....	42.81	13.01
For Work In Restricted Working Space, Add	9.76	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.51	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.39	
For Elevated Installation >30' To 35', Add	13.01	
For Elevated Installation >35' To 40', Add	16.27	
For Elevated Installation >40', Add	17.89	
26 05 33 13-0627 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling .....	54.92	16.73
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
<b>26 05 33 13-0628 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw<sup>(26)</sup></b>		
26 05 33 13-0629 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	4.78	1.85
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.40	
26 05 33 13-0630 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	5.77	2.23
For Work In Restricted Working Space, Add	1.67	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.95	
For Elevated Installation >30' To 35', Add	2.23	
For Elevated Installation >35' To 40', Add	2.79	
For Elevated Installation >40', Add	3.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.67	
26 05 33 13-0631 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	6.85	2.61
For Work In Restricted Working Space, Add	1.95	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-0632 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	9.94	3.72
For Work In Restricted Working Space, Add	2.79	
For Elevated Installation >10' To 15', Add	0.93	
For Elevated Installation >15' To 20', Add	1.86	
For Elevated Installation >20' To 25', Add	2.32	
For Elevated Installation >25' To 30', Add	3.25	
For Elevated Installation >30' To 35', Add	3.72	
For Elevated Installation >35' To 40', Add	4.65	
For Elevated Installation >40', Add	5.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	12.10	4.46
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	15.34	5.57
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	22.49	7.44
For Work In Restricted Working Space, Add	5.58	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.72	
For Elevated Installation >20' To 25', Add	4.65	
For Elevated Installation >25' To 30', Add	6.51	
For Elevated Installation >30' To 35', Add	7.44	
For Elevated Installation >35' To 40', Add	9.30	
For Elevated Installation >40', Add	10.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.58	
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	28.00	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	33.24	11.15
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	38.74	13.01
For Work In Restricted Working Space, Add	9.76	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.51	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.39	
For Elevated Installation >30' To 35', Add	13.01	
For Elevated Installation >35' To 40', Add	16.27	
For Elevated Installation >40', Add	17.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
<b>26 05 33 13-0639 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw</b>		
<small>(26 05 33 13-0593)</small>		
26 05 33 13-0640 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	6.43	2.51
For Work In Restricted Working Space, Add	1.87	
For Elevated Installation >10' To 15', Add	0.62	
For Elevated Installation >15' To 20', Add	1.24	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.18	
For Elevated Installation >30' To 35', Add	2.49	
For Elevated Installation >35' To 40', Add	3.11	
For Elevated Installation >40', Add	3.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-0641 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	7.11	2.70
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.36	
For Elevated Installation >20' To 25', Add	1.70	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0642	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.86	3.35
			<i>For Work In Restricted Working Space, Add</i>	2.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.07	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	3.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	4.14	
			<i>For Elevated Installation &gt;40', Add</i>	4.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.48	
26 05 33	13-0643	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	11.58	4.28
			<i>For Work In Restricted Working Space, Add</i>	3.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.06	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.12	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.71	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.24	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	5.30	
			<i>For Elevated Installation &gt;40', Add</i>	5.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.18	
26 05 33	13-0644	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	13.67	4.92
			<i>For Work In Restricted Working Space, Add</i>	3.71	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.24	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.47	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.09	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.33	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.94	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.18	
			<i>For Elevated Installation &gt;40', Add</i>	6.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.71	
26 05 33	13-0645	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	16.68	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.49	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.97	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.72	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.20	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.95	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.44	
			<i>For Elevated Installation &gt;40', Add</i>	8.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33	13-0646	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	26.54	8.27
			<i>For Work In Restricted Working Space, Add</i>	6.19	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.06	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.13	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.32	
			<i>For Elevated Installation &gt;40', Add</i>	11.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33	13-0647	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	34.58	10.96
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.50	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.88	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.00	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.76	
			<i>For Elevated Installation &gt;40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33	13-0648	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	44.24	14.13
			<i>For Work In Restricted Working Space, Add</i>	10.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.54	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.70	
			<i>For Elevated Installation &gt;40', Add</i>	19.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.62	
26 05 33	13-0649	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	56.20	18.59
			<i>For Work In Restricted Working Space, Add</i>	13.94	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
			<i>For Elevated Installation &gt;40', Add</i>	25.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.94	

26 05 33 13-0650 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0649)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0651 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	5.77	2.23
For Work In Restricted Working Space, Add	1.67	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.95	
For Elevated Installation >30' To 35', Add	2.23	
For Elevated Installation >35' To 40', Add	2.79	
For Elevated Installation >40', Add	3.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.67	
26 05 33 13-0652 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	6.81	2.61
For Work In Restricted Working Space, Add	1.95	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-0653 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	9.73	3.72
For Work In Restricted Working Space, Add	2.79	
For Elevated Installation >10' To 15', Add	0.93	
For Elevated Installation >15' To 20', Add	1.86	
For Elevated Installation >20' To 25', Add	2.32	
For Elevated Installation >25' To 30', Add	3.25	
For Elevated Installation >30' To 35', Add	3.72	
For Elevated Installation >35' To 40', Add	4.65	
For Elevated Installation >40', Add	5.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
26 05 33 13-0654 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	11.97	4.46
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-0655 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	14.17	5.20
For Work In Restricted Working Space, Add	3.90	
For Elevated Installation >10' To 15', Add	1.30	
For Elevated Installation >15' To 20', Add	2.60	
For Elevated Installation >20' To 25', Add	3.25	
For Elevated Installation >25' To 30', Add	4.55	
For Elevated Installation >30' To 35', Add	5.20	
For Elevated Installation >35' To 40', Add	6.51	
For Elevated Installation >40', Add	7.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90	
26 05 33 13-0656 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	18.41	6.69
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0657 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	27.37	8.92
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.46	
For Elevated Installation >20' To 25', Add	5.58	
For Elevated Installation >25' To 30', Add	7.81	
For Elevated Installation >30' To 35', Add	8.92	
For Elevated Installation >35' To 40', Add	11.16	
For Elevated Installation >40', Add	12.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-0658 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	34.49	11.15
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.58	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.76	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0659	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.72 9.76 3.25 6.51 8.13 11.39 13.01 16.27 17.89 9.76	13.01
26 05 33	13-0660	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.22 11.15 3.72 7.43 9.29 13.01 14.87 18.59 20.44 11.15	14.87
<b>26 05 33 13-0661 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors</b> <small>(26 05 33 13-0593)</small>					
26 05 33	13-0662	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57 1.87 0.62 1.24 1.56 2.18 2.49 3.11 3.42 1.87	2.51
26 05 33	13-0663	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.26 2.03 0.68 1.36 1.70 2.37 2.71 3.39 3.73 2.03	2.70
26 05 33	13-0664	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99 2.48 0.83 1.65 2.07 2.89 3.31 4.14 4.55 2.48	3.35
26 05 33	13-0665	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.93 3.18 1.06 2.12 2.65 3.71 4.24 5.30 5.82 3.18	4.28
26 05 33	13-0666	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.25 3.71 1.24 2.47 3.09 4.33 4.94 6.18 6.80 3.71	4.92
26 05 33	13-0667	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.51 4.46 1.49 2.97 3.72 5.20 5.95 7.44 8.18 4.46	5.94





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0668 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	29.59	8.27
For Work In Restricted Working Space, Add	6.19	
For Elevated Installation >10' To 15', Add	2.06	
For Elevated Installation >15' To 20', Add	4.13	
For Elevated Installation >20' To 25', Add	5.16	
For Elevated Installation >25' To 30', Add	7.22	
For Elevated Installation >30' To 35', Add	8.25	
For Elevated Installation >35' To 40', Add	10.32	
For Elevated Installation >40', Add	11.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	39.70	10.96
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.76	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	53.22	14.13
For Work In Restricted Working Space, Add	10.62	
For Elevated Installation >10' To 15', Add	3.54	
For Elevated Installation >15' To 20', Add	7.08	
For Elevated Installation >20' To 25', Add	8.85	
For Elevated Installation >25' To 30', Add	12.39	
For Elevated Installation >30' To 35', Add	14.16	
For Elevated Installation >35' To 40', Add	17.70	
For Elevated Installation >40', Add	19.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	67.31	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
<b>26 05 33 13-0672 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0593)</b>		
Note: Excludes jumper.		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	45.06	12.36
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....	54.35	14.96
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.37	
For Elevated Installation >25' To 30', Add	13.12	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.62	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling .....	66.99	18.77
For Work In Restricted Working Space, Add	14.06	
For Elevated Installation >10' To 15', Add	4.69	
For Elevated Installation >15' To 20', Add	9.37	
For Elevated Installation >20' To 25', Add	11.72	
For Elevated Installation >25' To 30', Add	16.40	
For Elevated Installation >30' To 35', Add	18.74	
For Elevated Installation >35' To 40', Add	23.43	
For Elevated Installation >40', Add	25.77	
26 05 33 13-0676 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....	85.85	23.05
For Work In Restricted Working Space, Add	17.30	
For Elevated Installation >10' To 15', Add	5.77	
For Elevated Installation >15' To 20', Add	11.53	
For Elevated Installation >20' To 25', Add	14.41	
For Elevated Installation >25' To 30', Add	20.18	
For Elevated Installation >30' To 35', Add	23.06	
For Elevated Installation >35' To 40', Add	28.83	
For Elevated Installation >40', Add	31.71	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0677 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	105.61	27.04
For Work In Restricted Working Space, Add	20.28	
For Elevated Installation >10' To 15', Add	6.76	
For Elevated Installation >15' To 20', Add	13.52	
For Elevated Installation >20' To 25', Add	16.90	
For Elevated Installation >25' To 30', Add	23.66	
For Elevated Installation >30' To 35', Add	27.04	
For Elevated Installation >35' To 40', Add	33.80	
For Elevated Installation >40', Add	37.18	
26 05 33 13-0678 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	131.74	32.90
For Work In Restricted Working Space, Add	24.70	
For Elevated Installation >10' To 15', Add	8.23	
For Elevated Installation >15' To 20', Add	16.46	
For Elevated Installation >20' To 25', Add	20.58	
For Elevated Installation >25' To 30', Add	28.81	
For Elevated Installation >30' To 35', Add	32.93	
For Elevated Installation >35' To 40', Add	41.16	
For Elevated Installation >40', Add	45.28	
26 05 33 13-0679 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	238.02	42.28
For Work In Restricted Working Space, Add	31.72	
For Elevated Installation >10' To 15', Add	10.57	
For Elevated Installation >15' To 20', Add	21.15	
For Elevated Installation >20' To 25', Add	26.43	
For Elevated Installation >25' To 30', Add	37.01	
For Elevated Installation >30' To 35', Add	42.29	
For Elevated Installation >35' To 40', Add	52.87	
For Elevated Installation >40', Add	58.15	
26 05 33 13-0680 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling.....	289.63	49.43
For Work In Restricted Working Space, Add	37.09	
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.73	
For Elevated Installation >20' To 25', Add	30.91	
For Elevated Installation >25' To 30', Add	43.27	
For Elevated Installation >30' To 35', Add	49.45	
For Elevated Installation >35' To 40', Add	61.82	
For Elevated Installation >40', Add	68.00	
26 05 33 13-0681 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	351.24	53.89
For Work In Restricted Working Space, Add	40.43	
For Elevated Installation >10' To 15', Add	13.48	
For Elevated Installation >15' To 20', Add	26.96	
For Elevated Installation >20' To 25', Add	33.70	
For Elevated Installation >25' To 30', Add	47.17	
For Elevated Installation >30' To 35', Add	53.91	
For Elevated Installation >35' To 40', Add	67.39	
For Elevated Installation >40', Add	74.13	
26 05 33 13-0682 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	380.91	59.47
For Work In Restricted Working Space, Add	44.62	
For Elevated Installation >10' To 15', Add	14.87	
For Elevated Installation >15' To 20', Add	29.74	
For Elevated Installation >20' To 25', Add	37.18	
For Elevated Installation >25' To 30', Add	52.05	
For Elevated Installation >30' To 35', Add	59.49	
For Elevated Installation >35' To 40', Add	74.36	
For Elevated Installation >40', Add	81.80	
<b>26 05 33 13-0683 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters</b>		
<small>(26 05 33 13-0593)</small>		
26 05 33 13-0684 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	9.10	3.35
For Work In Restricted Working Space, Add	2.48	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.65	
For Elevated Installation >20' To 25', Add	2.06	
For Elevated Installation >25' To 30', Add	2.89	
For Elevated Installation >30' To 35', Add	3.30	
For Elevated Installation >35' To 40', Add	4.13	
For Elevated Installation >40', Add	4.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-0685 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....	9.56	3.35
For Work In Restricted Working Space, Add	2.48	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.65	
For Elevated Installation >20' To 25', Add	2.06	
For Elevated Installation >25' To 30', Add	2.89	
For Elevated Installation >30' To 35', Add	3.30	
For Elevated Installation >35' To 40', Add	4.13	
For Elevated Installation >40', Add	4.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0686 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	10.68	3.63
<i>For Work In Restricted Working Space, Add</i>	2.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.92	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.83	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.21	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.67	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.59	
<i>For Elevated Installation &gt;40', Add</i>	5.04	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.75	
26 05 33 13-0687 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	12.37	4.18
<i>For Work In Restricted Working Space, Add</i>	3.13	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.09	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.65	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.17	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.22	
<i>For Elevated Installation &gt;40', Add</i>	5.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.13	
26 05 33 13-0688 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.01	5.02
<i>For Work In Restricted Working Space, Add</i>	3.79	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.26	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.52	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.42	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.05	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.31	
<i>For Elevated Installation &gt;40', Add</i>	6.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.79	
26 05 33 13-0689 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	20.53	5.76
<i>For Work In Restricted Working Space, Add</i>	4.33	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.44	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.88	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.05	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.21	
<i>For Elevated Installation &gt;40', Add</i>	7.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.33	
26 05 33 13-0690 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	26.55	7.25
<i>For Work In Restricted Working Space, Add</i>	5.41	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.61	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.51	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.31	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.21	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.02	
<i>For Elevated Installation &gt;40', Add</i>	9.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.41	
<b>26 05 33 13-0691 Electrical Metallic Tubing (EMT) Pulling Elbows</b> <small>(26 05 33 13-0593)</small>		
26 05 33 13-0692 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws.....	18.95	8.37
<i>For Work In Restricted Working Space, Add</i>	5.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-0693 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws.....	22.08	9.76
<i>For Work In Restricted Working Space, Add</i>	5.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.85	
26 05 33 13-0694 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws.....	26.90	11.15
<i>For Work In Restricted Working Space, Add</i>	6.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.69	
26 05 33 13-0695 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws.....	34.20	13.94
<i>For Work In Restricted Working Space, Add</i>	8.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.36	
26 05 33 13-0696 <b>Intermediate Metal Conduit (IMC)</b> <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0697 <b>Intermediate Metal Conduit (IMC) Conduit</b> <small>(26 05 33 13-0696)</small>		
Note: Includes field bending conduit up to 1".		

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0698	LF	1/2" Intermediate Metal Conduit (IMC) Conduit.....	5.92	1.85
			<i>For &gt;250 To 500, Deduct</i>	-0.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.10	
			<i>For &gt;1,000, Deduct</i>	-0.13	
			<i>For Installation In Metal Stud Wall, Add</i>	0.47	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.16	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.70	
			<i>For Work In Restricted Working Space, Add</i>	1.40	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.33	
			<i>For Elevated Installation &gt;40', Add</i>	2.56	
26 05 33	13-0699	LF	3/4" Intermediate Metal Conduit (IMC) Conduit.....	6.62	2.04
			<i>For &gt;250 To 500, Deduct</i>	-0.08	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.11	
			<i>For &gt;1,000, Deduct</i>	-0.15	
			<i>For Installation In Metal Stud Wall, Add</i>	0.51	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.28	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.77	
			<i>For Work In Restricted Working Space, Add</i>	1.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.28	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.56	
			<i>For Elevated Installation &gt;40', Add</i>	2.81	
26 05 33	13-0700	LF	1" Intermediate Metal Conduit (IMC) Conduit.....	7.90	2.23
			<i>For &gt;250 To 500, Deduct</i>	-0.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.17	
			<i>For &gt;1,000, Deduct</i>	-0.23	
			<i>For Installation In Metal Stud Wall, Add</i>	0.56	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.39	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	1.67	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.56	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.95	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.23	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.79	
			<i>For Elevated Installation &gt;40', Add</i>	3.06	
26 05 33	13-0701	LF	1-1/4" Intermediate Metal Conduit (IMC) Conduit .....	9.45	4.46
			<i>For &gt;250 To 500, Deduct</i>	-0.15	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.22	
			<i>For &gt;1,000, Deduct</i>	-0.30	
			<i>For Installation In Metal Stud Wall, Add</i>	0.65	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.63	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.98	
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.63	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.60	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.25	
			<i>For Elevated Installation &gt;40', Add</i>	3.58	
26 05 33	13-0702	LF	1-1/2" Intermediate Metal Conduit (IMC) Conduit .....	10.93	2.98
			<i>For &gt;250 To 500, Deduct</i>	-0.17	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.26	
			<i>For &gt;1,000, Deduct</i>	-0.35	
			<i>For Installation In Metal Stud Wall, Add</i>	0.74	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.86	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.12	
			<i>For Work In Restricted Working Space, Add</i>	2.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.86	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.72	
			<i>For Elevated Installation &gt;40', Add</i>	4.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0703 LF 2" Intermediate Metal Conduit (IMC) Conduit .....	13.10	3.35
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.35	
For >1,000, Deduct	-0.47	
For Installation In Metal Stub Wall, Add	0.84	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.09	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.26	
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.67	
For Elevated Installation >20' To 25', Add	2.09	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.35	
For Elevated Installation >35' To 40', Add	4.19	
For Elevated Installation >40', Add	4.60	
26 05 33 13-0704 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit .....	21.63	4.46
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.05	
For Installation In Metal Stub Wall, Add	1.12	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.79	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.67	
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
26 05 33 13-0705 LF 3" Intermediate Metal Conduit (IMC) Conduit .....	26.84	5.57
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-0.97	
For >1,000, Deduct	-1.29	
For Installation In Metal Stub Wall, Add	1.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.49	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.09	
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
26 05 33 13-0706 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit .....	31.67	6.69
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-1.49	
For Installation In Metal Stub Wall, Add	1.67	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.18	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.51	
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
26 05 33 13-0707 LF 4" Intermediate Metal Conduit (IMC) Conduit .....	37.10	7.81
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.32	
For >1,000, Deduct	-1.76	
For Installation In Metal Stub Wall, Add	1.95	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.93	
For Work In Restricted Working Space, Add	5.85	
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.76	
For Elevated Installation >40', Add	10.73	

26 05 33 13-0708 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0696)  
 See CSI section 26 05 33 13-2413 for conduit field bending.



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0709 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	45.71	14.03
For Work In Restricted Working Space, Add	10.49	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.24	
For Elevated Installation >30' To 35', Add	13.99	
For Elevated Installation >35' To 40', Add	17.49	
For Elevated Installation >40', Add	19.24	
26 05 33 13-0710 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	55.68	16.26
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0711 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	65.65	18.68
For Work In Restricted Working Space, Add	13.99	
For Elevated Installation >10' To 15', Add	4.66	
For Elevated Installation >15' To 20', Add	9.32	
For Elevated Installation >20' To 25', Add	11.66	
For Elevated Installation >25' To 30', Add	16.32	
For Elevated Installation >30' To 35', Add	18.65	
For Elevated Installation >35' To 40', Add	23.31	
For Elevated Installation >40', Add	25.64	
26 05 33 13-0712 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	78.68	20.53
For Work In Restricted Working Space, Add	15.39	
For Elevated Installation >10' To 15', Add	5.13	
For Elevated Installation >15' To 20', Add	10.26	
For Elevated Installation >20' To 25', Add	12.82	
For Elevated Installation >25' To 30', Add	17.95	
For Elevated Installation >30' To 35', Add	20.52	
For Elevated Installation >35' To 40', Add	25.65	
For Elevated Installation >40', Add	28.21	
26 05 33 13-0713 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	110.62	25.64
For Work In Restricted Working Space, Add	19.23	
For Elevated Installation >10' To 15', Add	6.41	
For Elevated Installation >15' To 20', Add	12.82	
For Elevated Installation >20' To 25', Add	16.03	
For Elevated Installation >25' To 30', Add	22.44	
For Elevated Installation >30' To 35', Add	25.64	
For Elevated Installation >35' To 40', Add	32.06	
For Elevated Installation >40', Add	35.26	
26 05 33 13-0714 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	158.54	34.94
For Work In Restricted Working Space, Add	26.20	
For Elevated Installation >10' To 15', Add	8.73	
For Elevated Installation >15' To 20', Add	17.47	
For Elevated Installation >20' To 25', Add	21.84	
For Elevated Installation >25' To 30', Add	30.57	
For Elevated Installation >30' To 35', Add	34.94	
For Elevated Installation >35' To 40', Add	43.67	
For Elevated Installation >40', Add	48.04	
26 05 33 13-0715 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	224.21	39.40
For Work In Restricted Working Space, Add	29.56	
For Elevated Installation >10' To 15', Add	9.85	
For Elevated Installation >15' To 20', Add	19.70	
For Elevated Installation >20' To 25', Add	24.63	
For Elevated Installation >25' To 30', Add	34.48	
For Elevated Installation >30' To 35', Add	39.41	
For Elevated Installation >35' To 40', Add	49.26	
For Elevated Installation >40', Add	54.19	
26 05 33 13-0716 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	274.01	51.30
For Work In Restricted Working Space, Add	38.46	
For Elevated Installation >10' To 15', Add	12.82	
For Elevated Installation >15' To 20', Add	25.64	
For Elevated Installation >20' To 25', Add	32.05	
For Elevated Installation >25' To 30', Add	44.87	
For Elevated Installation >30' To 35', Add	51.28	
For Elevated Installation >35' To 40', Add	64.11	
For Elevated Installation >40', Add	70.52	
<b>26 05 33 13-0717 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut</b> <small>(26 05 33 13-0696)</small>		
26 05 33 13-0718 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	12.55	4.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.63	
26 05 33 13-0719 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	14.74	0.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-0720 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	18.99	7.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0721 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	23.14	8.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0722 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	25.75	9.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0723 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	32.96	11.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.64	
26 05 33 13-0724 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	59.44	18.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0725 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	74.72	25.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.96	
26 05 33 13-0726 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	96.11	30.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 05 33 13-0727 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	113.13	34.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.21	
<b>26 05 33 13-0728 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings</b> <small>(26 05 33 13-0696)</small>		
<i>Note: 3-Piece coupling.</i>		
26 05 33 13-0729 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	40.83	14.87
For Work In Restricted Working Space, Add	11.17	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.31	
For Elevated Installation >25' To 30', Add	13.03	
For Elevated Installation >30' To 35', Add	14.89	
For Elevated Installation >35' To 40', Add	18.61	
For Elevated Installation >40', Add	20.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.17	
26 05 33 13-0730 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	46.18	16.63
For Work In Restricted Working Space, Add	12.46	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.31	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.54	
For Elevated Installation >30' To 35', Add	16.61	
For Elevated Installation >35' To 40', Add	20.77	
For Elevated Installation >40', Add	22.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 33 13-0731 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	55.23	18.49
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.25	
For Elevated Installation >20' To 25', Add	11.57	
For Elevated Installation >25' To 30', Add	16.19	
For Elevated Installation >30' To 35', Add	18.51	
For Elevated Installation >35' To 40', Add	23.14	
For Elevated Installation >40', Add	25.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.88	
26 05 33 13-0732 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	67.11	20.26
For Work In Restricted Working Space, Add	15.19	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.13	
For Elevated Installation >20' To 25', Add	12.66	
For Elevated Installation >25' To 30', Add	17.72	
For Elevated Installation >30' To 35', Add	20.25	
For Elevated Installation >35' To 40', Add	25.32	
For Elevated Installation >40', Add	27.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.19	
26 05 33 13-0733 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	76.08	22.12
For Work In Restricted Working Space, Add	16.62	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.08	
For Elevated Installation >20' To 25', Add	13.85	
For Elevated Installation >25' To 30', Add	19.39	
For Elevated Installation >30' To 35', Add	22.16	
For Elevated Installation >35' To 40', Add	27.70	
For Elevated Installation >40', Add	30.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.62	
26 05 33 13-0734 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	101.36	23.97
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.00	
For Elevated Installation >40', Add	32.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-0735 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	162.84	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0736	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	227.88	37.17
			<i>For Work In Restricted Working Space, Add</i>	27.88	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.29	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.23	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	32.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	37.17	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	46.46	
			<i>For Elevated Installation &gt;40', Add</i>	51.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.88	
26 05 33	13-0737	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	328.37	44.60
			<i>For Work In Restricted Working Space, Add</i>	33.46	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.15	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	27.89	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.62	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	55.77	
			<i>For Elevated Installation &gt;40', Add</i>	61.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.46	
26 05 33	13-0738	EA	4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	377.44	48.32
			<i>For Work In Restricted Working Space, Add</i>	36.24	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.08	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	24.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	30.20	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	42.28	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	48.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	60.40	
			<i>For Elevated Installation &gt;40', Add</i>	66.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.24	
<b>26 05 33 13-0739 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors</b>					
26 05 33	13-0740	EA	1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	22.52	7.44
			<i>For Work In Restricted Working Space, Add</i>	5.58	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.86	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.72	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.51	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.30	
			<i>For Elevated Installation &gt;40', Add</i>	10.22	
26 05 33	13-0741	EA	3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	25.09	8.18
			<i>For Work In Restricted Working Space, Add</i>	6.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
26 05 33	13-0742	EA	1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	28.76	9.29
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
26 05 33	13-0743	EA	1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	32.39	10.03
			<i>For Work In Restricted Working Space, Add</i>	7.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.78	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.55	
			<i>For Elevated Installation &gt;40', Add</i>	13.80	
26 05 33	13-0744	EA	1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	38.06	11.15
			<i>For Work In Restricted Working Space, Add</i>	8.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
			<i>For Elevated Installation &gt;40', Add</i>	15.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0745 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	45.71 9.20 3.07 6.13 7.67 10.73 12.26 15.33 16.86	12.27
26 05 33 13-0746 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	61.29 11.15 3.72 7.43 9.29 13.01 14.87 18.59 20.44	14.87
26 05 33 13-0747 EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	75.90 13.94 4.65 9.29 11.62 16.26 18.59 23.24 25.56	18.59
26 05 33 13-0748 EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	91.16 16.73 5.58 11.15 13.94 19.52 22.30 27.88 30.67	22.31
26 05 33 13-0749 EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	102.45 18.12 6.04 12.08 15.10 21.14 24.16 30.21 33.23	24.16
<b>26 05 33 13-0750 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs</b> <small>(26 05 33 13-0696)</small>		
26 05 33 13-0751 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.23 5.58 1.86 3.72 4.65 6.51 7.44 9.30 10.22 5.58	7.44
26 05 33 13-0752 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.69 6.97 2.32 4.65 5.81 8.13 9.29 11.62 12.78 6.97	9.29
26 05 33 13-0753 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.51 8.36 2.79 5.58 6.97 9.76 11.15 13.94 15.33 8.36	11.15

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0754 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	37.66	13.01
For Work In Restricted Working Space, Add	9.76	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.51	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.39	
For Elevated Installation >30' To 35', Add	13.01	
For Elevated Installation >35' To 40', Add	16.27	
For Elevated Installation >40', Add	17.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
26 05 33 13-0755 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	43.79	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.15	
26 05 33 13-0756 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	51.37	16.73
For Work In Restricted Working Space, Add	12.54	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.45	
For Elevated Installation >25' To 30', Add	14.63	
For Elevated Installation >30' To 35', Add	16.72	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.54	
26 05 33 13-0757 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	62.49	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
26 05 33 13-0758 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	72.68	20.44
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-0759 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	88.38	24.16
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.12	
26 05 33 13-0760 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	100.33	26.01
For Work In Restricted Working Space, Add	19.51	
For Elevated Installation >10' To 15', Add	6.50	
For Elevated Installation >15' To 20', Add	13.01	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.76	
For Elevated Installation >30' To 35', Add	26.02	
For Elevated Installation >35' To 40', Add	32.52	
For Elevated Installation >40', Add	35.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
<b>26 05 33 13-0761 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0696)</b>		
26 05 33 13-0762 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	107.98	14.87
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.45	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0763 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	119.70	16.73
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
26 05 33 13-0764 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting .....	133.02	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
26 05 33 13-0765 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	159.09	20.44
For Work In Restricted Working Space, Add	15.34	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.45	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.12	
26 05 33 13-0766 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	192.71	22.31
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0767 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	249.26	24.16
For Work In Restricted Working Space, Add	18.12	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
26 05 33 13-0768 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	370.99	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
26 05 33 13-0769 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting .....	447.14	37.17
For Work In Restricted Working Space, Add	27.88	
For Elevated Installation >10' To 15', Add	9.29	
For Elevated Installation >15' To 20', Add	18.58	
For Elevated Installation >20' To 25', Add	23.23	
For Elevated Installation >25' To 30', Add	32.52	
For Elevated Installation >30' To 35', Add	37.17	
For Elevated Installation >35' To 40', Add	46.46	
For Elevated Installation >40', Add	51.11	
26 05 33 13-0770 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	617.57	44.60
For Work In Restricted Working Space, Add	33.46	
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.30	
For Elevated Installation >20' To 25', Add	27.88	
For Elevated Installation >25' To 30', Add	39.03	
For Elevated Installation >30' To 35', Add	44.61	
For Elevated Installation >35' To 40', Add	55.76	
For Elevated Installation >40', Add	61.34	
26 05 33 13-0771 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	711.62	48.32
For Work In Restricted Working Space, Add	36.24	
For Elevated Installation >10' To 15', Add	12.08	
For Elevated Installation >15' To 20', Add	24.16	
For Elevated Installation >20' To 25', Add	30.20	
For Elevated Installation >25' To 30', Add	42.28	
For Elevated Installation >30' To 35', Add	48.32	
For Elevated Installation >35' To 40', Add	60.40	
For Elevated Installation >40', Add	66.43	

26 05 33 13-0772 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0696)

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0773	EA	1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	73.71	23.23
			<i>For Work In Restricted Working Space, Add</i>	13.94	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
			<i>For Elevated Installation &gt;40', Add</i>	25.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.94	
26 05 33	13-0774	EA	3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	87.76	27.88
			<i>For Work In Restricted Working Space, Add</i>	16.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
			<i>For Elevated Installation &gt;40', Add</i>	30.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.73	
26 05 33	13-0775	EA	1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	106.17	32.53
			<i>For Work In Restricted Working Space, Add</i>	19.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
			<i>For Elevated Installation &gt;40', Add</i>	35.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33	13-0776	EA	1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	124.28	37.17
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.30	
26 05 33	13-0777	EA	1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	158.82	41.82
			<i>For Work In Restricted Working Space, Add</i>	25.09	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.91	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.27	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.82	
			<i>For Elevated Installation &gt;40', Add</i>	46.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.09	
26 05 33	13-0778	EA	2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	190.33	46.47
			<i>For Work In Restricted Working Space, Add</i>	27.88	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.29	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.23	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	32.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	37.17	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	46.46	
			<i>For Elevated Installation &gt;40', Add</i>	51.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.88	
26 05 33	13-0779	EA	2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	262.85	55.76
			<i>For Work In Restricted Working Space, Add</i>	33.45	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.15	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.30	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	27.88	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.60	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	55.76	
			<i>For Elevated Installation &gt;40', Add</i>	61.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.45	
26 05 33	13-0780	EA	3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	314.96	65.05
			<i>For Work In Restricted Working Space, Add</i>	39.03	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.01	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	32.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	45.53	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	52.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	65.05	
			<i>For Elevated Installation &gt;40', Add</i>	71.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0781 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....	681.86	74.34
For Work In Restricted Working Space, Add	44.60	
For Elevated Installation >10' To 15', Add	14.87	
For Elevated Installation >15' To 20', Add	29.74	
For Elevated Installation >20' To 25', Add	37.17	
For Elevated Installation >25' To 30', Add	52.04	
For Elevated Installation >30' To 35', Add	59.47	
For Elevated Installation >35' To 40', Add	74.34	
For Elevated Installation >40', Add	81.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.60	
26 05 33 13-0782 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....	784.34	83.64
For Work In Restricted Working Space, Add	50.18	
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.90	
For Elevated Installation >35' To 40', Add	83.63	
For Elevated Installation >40', Add	91.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
<b>26 05 33 13-0783 Intermediate Metal Conduit (IMC) Threaded Couplings</b> <small>(26 05 33 13-0696)</small>		
26 05 33 13-0784 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	12.07	4.46
For Work In Restricted Working Space, Add	3.34	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.57	
For Elevated Installation >40', Add	6.13	
26 05 33 13-0785 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....	16.93	6.32
For Work In Restricted Working Space, Add	4.74	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.53	
For Elevated Installation >30' To 35', Add	6.32	
For Elevated Installation >35' To 40', Add	7.90	
For Elevated Installation >40', Add	8.69	
26 05 33 13-0786 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling .....	22.11	8.18
For Work In Restricted Working Space, Add	6.13	
For Elevated Installation >10' To 15', Add	2.04	
For Elevated Installation >15' To 20', Add	4.09	
For Elevated Installation >20' To 25', Add	5.11	
For Elevated Installation >25' To 30', Add	7.15	
For Elevated Installation >30' To 35', Add	8.17	
For Elevated Installation >35' To 40', Add	10.22	
For Elevated Installation >40', Add	11.24	
26 05 33 13-0787 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....	25.34	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.30	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
26 05 33 13-0788 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	30.52	11.15
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.57	
For Elevated Installation >20' To 25', Add	6.97	
For Elevated Installation >25' To 30', Add	9.75	
For Elevated Installation >30' To 35', Add	11.15	
For Elevated Installation >35' To 40', Add	13.94	
For Elevated Installation >40', Add	15.33	
26 05 33 13-0789 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	35.11	12.64
For Work In Restricted Working Space, Add	9.48	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
26 05 33 13-0790 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	43.04	14.13
For Work In Restricted Working Space, Add	10.59	
For Elevated Installation >10' To 15', Add	3.53	
For Elevated Installation >15' To 20', Add	7.06	
For Elevated Installation >20' To 25', Add	8.83	
For Elevated Installation >25' To 30', Add	12.36	
For Elevated Installation >30' To 35', Add	14.12	
For Elevated Installation >35' To 40', Add	17.65	
For Elevated Installation >40', Add	19.42	

**26 Electrical**  
**26 05 Common Work Results For Electrical**  
**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0791 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling.....	50.54	15.98
For Work In Restricted Working Space, Add	11.99	
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	7.99	
For Elevated Installation >20' To 25', Add	9.99	
For Elevated Installation >25' To 30', Add	13.99	
For Elevated Installation >30' To 35', Add	15.98	
For Elevated Installation >35' To 40', Add	19.98	
For Elevated Installation >40', Add	21.98	
26 05 33 13-0792 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	57.83	17.47
For Work In Restricted Working Space, Add	13.11	
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.74	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.29	
For Elevated Installation >30' To 35', Add	17.48	
For Elevated Installation >35' To 40', Add	21.85	
For Elevated Installation >40', Add	24.03	
26 05 33 13-0793 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling.....	60.70	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.61	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.58	
For Elevated Installation >35' To 40', Add	23.23	
For Elevated Installation >40', Add	25.55	
<b>26 05 33 13-0794 Intermediate Metal Conduit (IMC) Reducer Bushings</b> (26 05 33 13-0696)		
26 05 33 13-0795 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing.....	5.69	1.85
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	
26 05 33 13-0796 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing.....	6.29	1.85
For Work In Restricted Working Space, Add	1.40	
For Elevated Installation >10' To 15', Add	0.47	
For Elevated Installation >15' To 20', Add	0.93	
For Elevated Installation >20' To 25', Add	1.16	
For Elevated Installation >25' To 30', Add	1.63	
For Elevated Installation >30' To 35', Add	1.86	
For Elevated Installation >35' To 40', Add	2.33	
For Elevated Installation >40', Add	2.56	
26 05 33 13-0797 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0058)		
Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0798 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0797)		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-0799 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit .....	12.09	2.61
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.74	
For >1,000, Deduct	-1.05	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.30	
For Elevated Installation >20' To 25', Add	1.63	
For Elevated Installation >25' To 30', Add	2.28	
For Elevated Installation >30' To 35', Add	2.60	
For Elevated Installation >35' To 40', Add	3.25	
For Elevated Installation >40', Add	3.58	
For Work In Restricted Working Space, Add	1.95	
26 05 33 13-0800 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit .....	13.92	2.98
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.21	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.60	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.72	
For Elevated Installation >40', Add	4.09	
For Work In Restricted Working Space, Add	2.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0801 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	17.68	3.72
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.09	
For >1,000, Deduct	-1.54	
For Elevated Installation >10' To 15', Add	0.93	
For Elevated Installation >15' To 20', Add	1.86	
For Elevated Installation >20' To 25', Add	2.32	
For Elevated Installation >25' To 30', Add	3.25	
For Elevated Installation >30' To 35', Add	3.72	
For Elevated Installation >35' To 40', Add	4.65	
For Elevated Installation >40', Add	5.11	
For Work In Restricted Working Space, Add	2.79	
26 05 33 13-0802 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	21.79	4.46
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.90	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.23	
For Elevated Installation >20' To 25', Add	2.79	
For Elevated Installation >25' To 30', Add	3.90	
For Elevated Installation >30' To 35', Add	4.46	
For Elevated Installation >35' To 40', Add	5.58	
For Elevated Installation >40', Add	6.13	
For Work In Restricted Working Space, Add	3.35	
26 05 33 13-0803 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	26.87	5.57
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.34	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.79	
For Elevated Installation >20' To 25', Add	3.49	
For Elevated Installation >25' To 30', Add	4.88	
For Elevated Installation >30' To 35', Add	5.58	
For Elevated Installation >35' To 40', Add	6.97	
For Elevated Installation >40', Add	7.67	
For Work In Restricted Working Space, Add	4.18	
26 05 33 13-0804 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	33.59	6.69
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.94	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
26 05 33 13-0805 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	45.07	7.81
For >250 To 500, Deduct	-1.77	
For >500 To 1,000, Deduct	-2.89	
For >1,000, Deduct	-4.02	
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.76	
For Elevated Installation >40', Add	10.73	
For Work In Restricted Working Space, Add	5.85	
26 05 33 13-0806 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	56.39	9.66
For >250 To 500, Deduct	-2.22	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.04	
For Elevated Installation >10' To 15', Add	2.42	
For Elevated Installation >15' To 20', Add	4.83	
For Elevated Installation >20' To 25', Add	6.04	
For Elevated Installation >25' To 30', Add	8.46	
For Elevated Installation >30' To 35', Add	9.66	
For Elevated Installation >35' To 40', Add	12.08	
For Elevated Installation >40', Add	13.29	
For Work In Restricted Working Space, Add	7.25	
26 05 33 13-0807 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	69.15	11.89
For >250 To 500, Deduct	-2.71	
For >500 To 1,000, Deduct	-4.44	
For >1,000, Deduct	-6.17	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.95	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.41	
For Elevated Installation >30' To 35', Add	11.89	
For Elevated Installation >35' To 40', Add	14.87	
For Elevated Installation >40', Add	16.35	
For Work In Restricted Working Space, Add	8.92	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0808	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit .....	81.79	14.13
			<i>For &gt;250 To 500, Deduct</i>	-3.21	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.25	
			<i>For &gt;1,000, Deduct</i>	-7.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.66	
			<i>For Elevated Installation &gt;40', Add</i>	19.42	
			<i>For Work In Restricted Working Space, Add</i>	10.59	
26 05 33	13-0809	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit .....	124.18	16.73
			<i>For &gt;250 To 500, Deduct</i>	-5.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.27	
			<i>For &gt;1,000, Deduct</i>	-11.37	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.73	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.91	
			<i>For Elevated Installation &gt;40', Add</i>	23.00	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
26 05 33	13-0810	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit .....	168.63	22.31
			<i>For &gt;250 To 500, Deduct</i>	-7.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.25	
			<i>For &gt;1,000, Deduct</i>	-15.47	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
			<i>For Elevated Installation &gt;40', Add</i>	30.67	
			<i>For Work In Restricted Working Space, Add</i>	16.73	
26 05 33	13-0811		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings</b> <small>(26 05 33 13-0797)</small>		
26 05 33	13-0812	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	17.06	5.57
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	4.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	5.58	
			<i>For Elevated Installation &gt;40', Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	3.35	
26 05 33	13-0813	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	21.98	7.90
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.53	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.90	
			<i>For Elevated Installation &gt;40', Add</i>	8.68	
			<i>For Work In Restricted Working Space, Add</i>	4.74	
26 05 33	13-0814	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	28.47	10.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.09	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.22	
			<i>For Elevated Installation &gt;40', Add</i>	11.24	
			<i>For Work In Restricted Working Space, Add</i>	6.13	
26 05 33	13-0815	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	32.60	11.61
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Work In Restricted Working Space, Add</i>	6.97	
26 05 33	13-0816	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	39.02	13.94
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
			<i>For Elevated Installation &gt;40', Add</i>	15.33	
			<i>For Work In Restricted Working Space, Add</i>	8.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0817 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	47.91	15.79
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.90	
For Elevated Installation >25' To 30', Add	11.06	
For Elevated Installation >30' To 35', Add	12.64	
For Elevated Installation >35' To 40', Add	15.80	
For Elevated Installation >40', Add	17.38	
For Work In Restricted Working Space, Add	9.48	
26 05 33 13-0818 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	75.67	15.79
For Elevated Installation >10' To 15', Add	3.53	
For Elevated Installation >15' To 20', Add	7.06	
For Elevated Installation >20' To 25', Add	8.83	
For Elevated Installation >25' To 30', Add	12.36	
For Elevated Installation >30' To 35', Add	14.12	
For Elevated Installation >35' To 40', Add	17.66	
For Elevated Installation >40', Add	19.42	
For Work In Restricted Working Space, Add	10.59	
26 05 33 13-0819 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	88.96	21.84
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	7.99	
For Elevated Installation >20' To 25', Add	9.99	
For Elevated Installation >25' To 30', Add	13.98	
For Elevated Installation >30' To 35', Add	15.98	
For Elevated Installation >35' To 40', Add	19.98	
For Elevated Installation >40', Add	21.97	
For Work In Restricted Working Space, Add	11.99	
26 05 33 13-0820 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	106.55	21.84
For Elevated Installation >10' To 15', Add	4.37	
For Elevated Installation >15' To 20', Add	8.73	
For Elevated Installation >20' To 25', Add	10.92	
For Elevated Installation >25' To 30', Add	15.28	
For Elevated Installation >30' To 35', Add	17.47	
For Elevated Installation >35' To 40', Add	21.84	
For Elevated Installation >40', Add	24.02	
For Work In Restricted Working Space, Add	13.10	
26 05 33 13-0821 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	119.99	23.23
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Work In Restricted Working Space, Add	13.94	
26 05 33 13-0822 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	295.32	27.88
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
For Work In Restricted Working Space, Add	16.73	
26 05 33 13-0823 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	332.66	32.53
For Elevated Installation >10' To 15', Add	6.51	
For Elevated Installation >15' To 20', Add	13.01	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.77	
For Elevated Installation >30' To 35', Add	26.02	
For Elevated Installation >35' To 40', Add	32.53	
For Elevated Installation >40', Add	35.78	
For Work In Restricted Working Space, Add	19.52	
<b>26 05 33 13-0824 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel</b>		
<b>(RGS) Standard Radius Elbows <small>(26 05 33 13-0797)</small></b>		
Note: 90, 45, or 30 degree.		
26 05 33 13-0825 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	50.90	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
26 05 33 13-0826 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	58.94	18.73
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.49	
For Elevated Installation >20' To 25', Add	9.36	
For Elevated Installation >25' To 30', Add	13.11	
For Elevated Installation >30' To 35', Add	14.98	
For Elevated Installation >35' To 40', Add	18.73	
For Elevated Installation >40', Add	20.60	
For Work In Restricted Working Space, Add	11.24	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0827 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	70.56	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-0828 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	83.44	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-0829 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	97.63	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-0830 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	118.39	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-0831 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	181.23	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-0832 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	269.97	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	
26 05 33 13-0833 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	333.28	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-0834 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	383.66	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-0835 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	794.62	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0836 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	1,248.68	204.16
<i>For Elevated Installation &gt;10' To 15', Add</i>	40.83	
<i>For Elevated Installation &gt;15' To 20', Add</i>	81.66	
<i>For Elevated Installation &gt;20' To 25', Add</i>	102.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	142.91	
<i>For Elevated Installation &gt;30' To 35', Add</i>	163.33	
<i>For Elevated Installation &gt;35' To 40', Add</i>	204.16	
<i>For Elevated Installation &gt;40', Add</i>	224.58	
<i>For Work In Restricted Working Space, Add</i>	122.50	
<b>26 05 33 13-0837 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-0838 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	119.36	22.95
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33 13-0839 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	134.39	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
26 05 33 13-0840 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	153.40	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
26 05 33 13-0841 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	182.75	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-0842 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	254.08	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.01	
<b>26 05 33 13-0843 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-0844 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....	132.55	22.95
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33 13-0845 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....	156.20	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0846	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	169.04 6.04 12.08 15.10 21.14 24.16 30.20 33.22 18.12	30.20
26 05 33	13-0847	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	216.85 6.64 13.29 16.61 23.25 26.58 33.22 36.54 19.93	33.22
26 05 33	13-0848	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	286.95 8.34 16.67 20.84 29.17 33.34 41.68 45.84 25.01	41.68
26 05 33	13-0849	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	367.47 11.36 22.71 28.39 39.75 45.42 56.78 62.46 34.07	56.78
<b>26 05 33 13-0850 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows</b> <small>(26 05 33 13-0797)</small>					
26 05 33	13-0851	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	148.33 4.59 9.18 11.48 16.07 18.36 22.96 25.25 13.77	22.95
26 05 33	13-0852	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	167.55 5.32 10.63 13.29 18.60 21.26 26.58 29.23 15.95	26.58
26 05 33	13-0853	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	189.10 6.04 12.08 15.10 21.14 24.16 30.20 33.22 18.12	30.20
26 05 33	13-0854	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	228.16 6.64 13.29 16.61 23.25 26.58 33.22 36.54 19.93	33.22
26 05 33	13-0855	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	324.73 8.34 16.67 20.84 29.17 33.34 41.68 45.84 25.01	41.68





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0856 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	411.82	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	
26 05 33 13-0857 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	519.03	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-0858 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	586.02	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
<b>26 05 33 13-0859 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-0860 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	175.59	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-0861 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	194.21	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-0862 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	219.37	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-0863 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	271.74	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-0864 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	392.34	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-0865 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	486.96	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0866	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....564.91 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	564.91 12.81 25.61 32.01 44.82 51.22 64.03 70.43 38.42	64.02
26 05 33	13-0867	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....670.25 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	670.25 16.67 33.34 41.68 58.35 66.68 83.36 91.69 50.01	83.35
<b>26 05 33 13-0868 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows <sup>(26 05 33 13-0797)</sup></b>					
26 05 33	13-0869	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....196.80 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	196.80 4.59 9.18 11.48 16.07 18.36 22.96 25.25 13.77	22.95
26 05 33	13-0870	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....219.03 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	219.03 5.32 10.63 13.29 18.60 21.26 26.58 29.23 15.95	26.58
26 05 33	13-0871	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....249.16 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	249.16 6.04 12.08 15.10 21.14 24.16 30.20 33.22 18.12	30.20
26 05 33	13-0872	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....309.68 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	309.68 6.64 13.29 16.61 23.25 26.58 33.22 36.54 19.93	33.22
26 05 33	13-0873	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....429.23 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	429.23 8.34 16.67 20.84 29.17 33.34 41.68 45.84 25.01	41.68
26 05 33	13-0874	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....547.07 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	547.07 11.36 22.71 28.39 39.75 45.42 56.78 62.46 34.07	56.78
26 05 33	13-0875	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....676.46 <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	676.46 12.81 25.61 32.01 44.82 51.22 64.03 70.43 38.42	64.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0876 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....747.57	747.57	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-0877 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....1,246.01	1,246.01	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
<b>26 05 33 13-0878 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-0879 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....224.53	224.53	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-0880 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....249.01	249.01	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-0881 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....281.82	281.82	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-0882 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....351.76	351.76	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-0883 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....490.70	490.70	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-0884 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....623.65	623.65	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	
26 05 33 13-0885 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....732.36	732.36	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0886 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	847.39	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-0887 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	1,315.97	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-0888 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	1,801.44	204.16
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
For Work In Restricted Working Space, Add	122.50	
<b>26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows</b> <small>[26 05 33 13-0797]</small>		
26 05 33 13-0890 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	263.14	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-0891 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	275.74	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-0892 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	325.53	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-0893 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	410.34	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-0894 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	573.59	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-0895 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	726.88	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0896 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	887.77	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-0897 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	1,041.57	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-0898 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	1,544.15	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-0899 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	1,906.19	204.16
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
For Work In Restricted Working Space, Add	122.50	
<b>26 05 33 13-0900 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows <small>26 05 33 13-0797</small></b>		
26 05 33 13-0901 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	272.44	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-0902 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	320.95	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-0903 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	363.33	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-0904 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	427.96	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-0905 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	594.30	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0906 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	758.64	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	
26 05 33 13-0907 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	972.40	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-0908 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,085.61	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-0909 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,605.45	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-0910 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,959.41	204.16
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
For Work In Restricted Working Space, Add	122.50	
<b>26 05 33 13-0911 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings (26 05 33 13-0797)</b>		
26 05 33 13-0912 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	99.82	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-0913 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	121.96	19.93
For Elevated Installation >10' To 15', Add	3.99	
For Elevated Installation >15' To 20', Add	7.97	
For Elevated Installation >20' To 25', Add	9.97	
For Elevated Installation >25' To 30', Add	13.95	
For Elevated Installation >30' To 35', Add	15.94	
For Elevated Installation >35' To 40', Add	19.93	
For Elevated Installation >40', Add	21.92	
For Work In Restricted Working Space, Add	11.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.96	
26 05 33 13-0914 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	163.16	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0915 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	269.64	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.95	
26 05 33 13-0916 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	297.60	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.12	
26 05 33 13-0917 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	376.77	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-0918 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,033.97	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33 13-0919 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,233.04	56.78
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
<i>For Elevated Installation &gt;30' To 35', Add</i>	45.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.79	
<i>For Elevated Installation &gt;40', Add</i>	62.46	
<i>For Work In Restricted Working Space, Add</i>	34.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.07	
26 05 33 13-0920 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,637.12	83.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	83.35	
<i>For Elevated Installation &gt;40', Add</i>	91.69	
<i>For Work In Restricted Working Space, Add</i>	50.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.01	
<b>26 05 33 13-0921 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-0922 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	95.59	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33 13-0923 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	117.18	19.93
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.99	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	19.93	
<i>For Elevated Installation &gt;40', Add</i>	21.92	
<i>For Work In Restricted Working Space, Add</i>	11.96	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.96	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0924	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....163.16	163.16	22.95
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
			<i>For Elevated Installation &gt;40', Add</i>	25.25	
			<i>For Work In Restricted Working Space, Add</i>	13.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.77	
26 05 33 13-0925	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....267.18	267.18	26.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
			<i>For Elevated Installation &gt;40', Add</i>	29.23	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.95	
26 05 33 13-0926	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....287.67	287.67	30.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
			<i>For Elevated Installation &gt;40', Add</i>	33.22	
			<i>For Work In Restricted Working Space, Add</i>	18.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.12	
26 05 33 13-0927	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....376.89	376.89	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-0928	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....991.62	991.62	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33 13-0929	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....1,202.15	1,202.15	56.78
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.79	
			<i>For Elevated Installation &gt;40', Add</i>	62.46	
			<i>For Work In Restricted Working Space, Add</i>	34.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.07	
26 05 33 13-0930	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....1,637.05	1,637.05	83.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	83.35	
			<i>For Elevated Installation &gt;40', Add</i>	91.69	
			<i>For Work In Restricted Working Space, Add</i>	50.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.01	
26 05 33 13-0931			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-0932	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....86.22	86.22	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0933 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.95 3.99 7.97 9.97 13.95 15.94 19.93 21.92 11.96 11.96	19.93
26 05 33 13-0934 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.58 4.59 9.18 11.48 16.07 18.36 22.96 25.25 13.77 13.77	22.95
26 05 33 13-0935 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.62 5.32 10.63 13.29 18.60 21.26 26.58 29.23 15.95 15.95	26.58
26 05 33 13-0936 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.94 6.04 12.08 15.10 21.14 24.16 30.20 33.22 18.12 18.12	30.20
26 05 33 13-0937 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	315.66 6.64 13.29 16.61 23.25 26.58 33.22 36.54 19.93 19.93	33.22
26 05 33 13-0938 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	873.71 8.33 16.67 20.84 29.17 33.34 41.67 45.84 25.00 25.00	41.68
26 05 33 13-0939 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	981.90 11.36 22.71 28.39 39.75 45.43 56.79 62.46 34.07 34.07	56.78
26 05 33 13-0940 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,252.22 16.67 33.34 41.68 58.35 66.68 83.35 91.69 50.01 50.01	83.35

26 05 33 13-0941 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0797)

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0942 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	148.91	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-0943 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	224.86	19.93
For Elevated Installation >10' To 15', Add	3.99	
For Elevated Installation >15' To 20', Add	7.97	
For Elevated Installation >20' To 25', Add	9.97	
For Elevated Installation >25' To 30', Add	13.95	
For Elevated Installation >30' To 35', Add	15.94	
For Elevated Installation >35' To 40', Add	19.93	
For Elevated Installation >40', Add	21.92	
For Work In Restricted Working Space, Add	11.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.96	
26 05 33 13-0944 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	283.03	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.77	
26 05 33 13-0945 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	326.69	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.95	
26 05 33 13-0946 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	371.02	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.12	
26 05 33 13-0947 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	489.29	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.93	
26 05 33 13-0948 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....	1,549.39	41.68
For Elevated Installation >10' To 15', Add	8.33	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.67	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.00	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0949 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	1,807.87	56.78
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
<i>For Elevated Installation &gt;30' To 35', Add</i>	45.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.79	
<i>For Elevated Installation &gt;40', Add</i>	62.46	
<i>For Work In Restricted Working Space, Add</i>	34.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.07	
26 05 33 13-0950 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	2,220.70	83.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	83.35	
<i>For Elevated Installation &gt;40', Add</i>	91.69	
<i>For Work In Restricted Working Space, Add</i>	50.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.01	
<b>26 05 33 13-0951 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fittings <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-0952 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	165.55	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33 13-0953 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	240.57	19.93
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.99	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	19.93	
<i>For Elevated Installation &gt;40', Add</i>	21.92	
<i>For Work In Restricted Working Space, Add</i>	11.96	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.96	
26 05 33 13-0954 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	286.02	22.95
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
<i>For Work In Restricted Working Space, Add</i>	13.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.77	
26 05 33 13-0955 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	331.61	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.95	
26 05 33 13-0956 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	384.53	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.12	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0957	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	608.02	33.22
	<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
	<i>For Elevated Installation &gt;40', Add</i>	36.54	
	<i>For Work In Restricted Working Space, Add</i>	19.93	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-0958	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	1,728.53	41.68
	<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
	<i>For Elevated Installation &gt;40', Add</i>	45.84	
	<i>For Work In Restricted Working Space, Add</i>	25.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33 13-0959	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	2,433.32	56.78
	<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	45.43	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	56.79	
	<i>For Elevated Installation &gt;40', Add</i>	62.46	
	<i>For Work In Restricted Working Space, Add</i>	34.07	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.07	
26 05 33 13-0960	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	2,537.32	83.35
	<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	83.35	
	<i>For Elevated Installation &gt;40', Add</i>	91.69	
	<i>For Work In Restricted Working Space, Add</i>	50.01	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.01	
26 05 33 13-0961	<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-0962	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	130.57	15.10
	<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
	<i>For Elevated Installation &gt;40', Add</i>	16.61	
	<i>For Work In Restricted Working Space, Add</i>	9.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33 13-0963	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	164.61	19.93
	<i>For Elevated Installation &gt;10' To 15', Add</i>	3.99	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	7.97	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	9.97	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	13.95	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	15.94	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	19.93	
	<i>For Elevated Installation &gt;40', Add</i>	21.92	
	<i>For Work In Restricted Working Space, Add</i>	11.96	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.96	
26 05 33 13-0964	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	197.37	22.95
	<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
	<i>For Elevated Installation &gt;40', Add</i>	25.25	
	<i>For Work In Restricted Working Space, Add</i>	13.77	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0965 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	218.53	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.95	
26 05 33 13-0966 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	295.11	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.12	
26 05 33 13-0967 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	418.52	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-0968 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,401.01	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33 13-0969 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,575.86	56.78
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
<i>For Elevated Installation &gt;30' To 35', Add</i>	45.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.79	
<i>For Elevated Installation &gt;40', Add</i>	62.46	
<i>For Work In Restricted Working Space, Add</i>	34.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.07	
26 05 33 13-0970 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,870.40	83.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	83.35	
<i>For Elevated Installation &gt;40', Add</i>	91.69	
<i>For Work In Restricted Working Space, Add</i>	50.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.01	
26 05 33 13-0971 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0972 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	115.97	28.99
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
<i>For Elevated Installation &gt;25' To 30', Add</i>	20.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	23.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	29.00	
<i>For Elevated Installation &gt;40', Add</i>	31.89	
<i>For Work In Restricted Working Space, Add</i>	17.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.40	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0973	EA	3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	130.73	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33	13-0974	EA	1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	162.13	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.83	
26 05 33	13-0975	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	213.05	44.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
			<i>For Elevated Installation &gt;40', Add</i>	48.50	
			<i>For Work In Restricted Working Space, Add</i>	26.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	
26 05 33	13-0976	EA	1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	249.13	48.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
			<i>For Elevated Installation &gt;40', Add</i>	53.15	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.99	
26 05 33	13-0977	EA	2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	340.78	57.98
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
			<i>For Elevated Installation &gt;40', Add</i>	63.78	
			<i>For Work In Restricted Working Space, Add</i>	34.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.79	
26 05 33	13-0978	EA	2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	575.66	81.54
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.31	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	32.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	40.77	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	57.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	65.24	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	81.55	
			<i>For Elevated Installation &gt;40', Add</i>	89.70	
			<i>For Work In Restricted Working Space, Add</i>	48.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.93	
26 05 33	13-0979	EA	3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	736.44	108.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	21.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	43.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	54.37	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	76.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	86.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	108.73	
			<i>For Elevated Installation &gt;40', Add</i>	119.60	
			<i>For Work In Restricted Working Space, Add</i>	65.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0980 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	1,025.84	135.90
<i>For Elevated Installation &gt;10' To 15', Add</i>	27.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	54.36	
<i>For Elevated Installation &gt;20' To 25', Add</i>	67.95	
<i>For Elevated Installation &gt;25' To 30', Add</i>	95.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	108.72	
<i>For Elevated Installation &gt;35' To 40', Add</i>	135.91	
<i>For Elevated Installation &gt;40', Add</i>	149.50	
<i>For Work In Restricted Working Space, Add</i>	81.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.54	
26 05 33 13-0981 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	1,176.21	165.50
<i>For Elevated Installation &gt;10' To 15', Add</i>	33.10	
<i>For Elevated Installation &gt;15' To 20', Add</i>	66.20	
<i>For Elevated Installation &gt;20' To 25', Add</i>	82.75	
<i>For Elevated Installation &gt;25' To 30', Add</i>	115.85	
<i>For Elevated Installation &gt;30' To 35', Add</i>	132.40	
<i>For Elevated Installation &gt;35' To 40', Add</i>	165.50	
<i>For Elevated Installation &gt;40', Add</i>	182.05	
<i>For Work In Restricted Working Space, Add</i>	99.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.30	
<b>26 05 33 13-0982 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0797)</small>		
<i>Note: Suitable for use in hazardous locations. Class I, Div 2.</i>		
26 05 33 13-0983 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	151.48	38.05
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.05	
<i>For Elevated Installation &gt;40', Add</i>	41.86	
<i>For Work In Restricted Working Space, Add</i>	22.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.83	
26 05 33 13-0984 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	172.83	42.28
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.46	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.91	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.14	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.82	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.28	
<i>For Elevated Installation &gt;40', Add</i>	46.51	
<i>For Work In Restricted Working Space, Add</i>	25.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.37	
26 05 33 13-0985 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	211.91	46.51
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	23.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	32.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	37.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	46.51	
<i>For Elevated Installation &gt;40', Add</i>	51.16	
<i>For Work In Restricted Working Space, Add</i>	27.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.90	
26 05 33 13-0986 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	286.45	53.15
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.63	
<i>For Elevated Installation &gt;15' To 20', Add</i>	21.26	
<i>For Elevated Installation &gt;20' To 25', Add</i>	26.58	
<i>For Elevated Installation &gt;25' To 30', Add</i>	37.21	
<i>For Elevated Installation &gt;30' To 35', Add</i>	42.52	
<i>For Elevated Installation &gt;35' To 40', Add</i>	53.15	
<i>For Elevated Installation &gt;40', Add</i>	58.47	
<i>For Work In Restricted Working Space, Add</i>	31.89	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.89	
26 05 33 13-0987 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	339.28	57.98
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
<i>For Elevated Installation &gt;40', Add</i>	63.78	
<i>For Work In Restricted Working Space, Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.79	
26 05 33 13-0988 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	463.31	71.27
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.26	
<i>For Elevated Installation &gt;15' To 20', Add</i>	28.51	
<i>For Elevated Installation &gt;20' To 25', Add</i>	35.64	
<i>For Elevated Installation &gt;25' To 30', Add</i>	49.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	57.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	71.28	
<i>For Elevated Installation &gt;40', Add</i>	78.40	
<i>For Work In Restricted Working Space, Add</i>	42.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.77	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989			<b>Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0797)</small> Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0990	EA		1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....133.37	133.37	33.22
			For Elevated Installation >10' To 15', Add	6.65	
			For Elevated Installation >15' To 20', Add	13.29	
			For Elevated Installation >20' To 25', Add	16.61	
			For Elevated Installation >25' To 30', Add	23.26	
			For Elevated Installation >30' To 35', Add	26.58	
			For Elevated Installation >35' To 40', Add	33.23	
			For Elevated Installation >40', Add	36.55	
			For Work In Restricted Working Space, Add	19.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.94	
26 05 33 13-0991	EA		3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....152.05	152.05	38.66
			For Elevated Installation >10' To 15', Add	7.73	
			For Elevated Installation >15' To 20', Add	15.46	
			For Elevated Installation >20' To 25', Add	19.33	
			For Elevated Installation >25' To 30', Add	27.06	
			For Elevated Installation >30' To 35', Add	30.92	
			For Elevated Installation >35' To 40', Add	38.66	
			For Elevated Installation >40', Add	42.52	
			For Work In Restricted Working Space, Add	23.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.19	
26 05 33 13-0992	EA		1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....184.69	184.69	42.28
			For Elevated Installation >10' To 15', Add	8.46	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.14	
			For Elevated Installation >25' To 30', Add	29.60	
			For Elevated Installation >30' To 35', Add	33.82	
			For Elevated Installation >35' To 40', Add	42.28	
			For Elevated Installation >40', Add	46.51	
			For Work In Restricted Working Space, Add	25.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.37	
26 05 33 13-0993	EA		1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....237.60	237.60	48.32
			For Elevated Installation >10' To 15', Add	9.66	
			For Elevated Installation >15' To 20', Add	19.33	
			For Elevated Installation >20' To 25', Add	24.16	
			For Elevated Installation >25' To 30', Add	33.82	
			For Elevated Installation >30' To 35', Add	38.66	
			For Elevated Installation >35' To 40', Add	48.32	
			For Elevated Installation >40', Add	53.15	
			For Work In Restricted Working Space, Add	28.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.99	
26 05 33 13-0994	EA		1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....282.35	282.35	53.15
			For Elevated Installation >10' To 15', Add	10.63	
			For Elevated Installation >15' To 20', Add	21.26	
			For Elevated Installation >20' To 25', Add	26.58	
			For Elevated Installation >25' To 30', Add	37.21	
			For Elevated Installation >30' To 35', Add	42.52	
			For Elevated Installation >35' To 40', Add	53.16	
			For Elevated Installation >40', Add	58.47	
			For Work In Restricted Working Space, Add	31.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.89	
26 05 33 13-0995	EA		2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....380.05	380.05	62.21
			For Elevated Installation >10' To 15', Add	12.44	
			For Elevated Installation >15' To 20', Add	24.88	
			For Elevated Installation >20' To 25', Add	31.11	
			For Elevated Installation >25' To 30', Add	43.55	
			For Elevated Installation >30' To 35', Add	49.77	
			For Elevated Installation >35' To 40', Add	62.21	
			For Elevated Installation >40', Add	68.43	
			For Work In Restricted Working Space, Add	37.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.33	
26 05 33 13-0996	EA		2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....613.02	613.02	90.60
			For Elevated Installation >10' To 15', Add	18.12	
			For Elevated Installation >15' To 20', Add	36.24	
			For Elevated Installation >20' To 25', Add	45.30	
			For Elevated Installation >25' To 30', Add	63.42	
			For Elevated Installation >30' To 35', Add	72.48	
			For Elevated Installation >35' To 40', Add	90.61	
			For Elevated Installation >40', Add	99.67	
			For Work In Restricted Working Space, Add	54.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0997 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	811.78	117.79
<i>For Elevated Installation &gt;10' To 15', Add</i>	23.56	
<i>For Elevated Installation &gt;15' To 20', Add</i>	47.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	58.89	
<i>For Elevated Installation &gt;25' To 30', Add</i>	82.45	
<i>For Elevated Installation &gt;30' To 35', Add</i>	94.22	
<i>For Elevated Installation &gt;35' To 40', Add</i>	117.78	
<i>For Elevated Installation &gt;40', Add</i>	129.56	
<i>For Work In Restricted Working Space, Add</i>	70.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.67	
26 05 33 13-0998 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,118.13	144.96
<i>For Elevated Installation &gt;10' To 15', Add</i>	28.99	
<i>For Elevated Installation &gt;15' To 20', Add</i>	57.98	
<i>For Elevated Installation &gt;20' To 25', Add</i>	72.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	101.47	
<i>For Elevated Installation &gt;30' To 35', Add</i>	115.97	
<i>For Elevated Installation &gt;35' To 40', Add</i>	144.96	
<i>For Elevated Installation &gt;40', Add</i>	159.46	
<i>For Work In Restricted Working Space, Add</i>	86.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 05 33 13-0999 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,247.64	174.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	34.91	
<i>For Elevated Installation &gt;15' To 20', Add</i>	69.83	
<i>For Elevated Installation &gt;20' To 25', Add</i>	87.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	122.20	
<i>For Elevated Installation &gt;30' To 35', Add</i>	139.65	
<i>For Elevated Installation &gt;35' To 40', Add</i>	174.57	
<i>For Elevated Installation &gt;40', Add</i>	192.02	
<i>For Work In Restricted Working Space, Add</i>	104.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.74	
<b>26 05 33 13-1000 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1001 EA 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	27.81	3.63
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.45	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.54	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.90	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.63	
<i>For Elevated Installation &gt;40', Add</i>	3.99	
<i>For Work In Restricted Working Space, Add</i>	2.18	
26 05 33 13-1002 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	31.17	4.23
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.96	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.23	
<i>For Elevated Installation &gt;40', Add</i>	4.65	
<i>For Work In Restricted Working Space, Add</i>	2.54	
26 05 33 13-1003 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	40.66	5.43
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.09	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.17	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.72	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.80	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.35	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.44	
<i>For Elevated Installation &gt;40', Add</i>	5.98	
<i>For Work In Restricted Working Space, Add</i>	3.26	
26 05 33 13-1004 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	52.36	6.64
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.66	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.32	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.65	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.32	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.65	
<i>For Elevated Installation &gt;40', Add</i>	7.31	
<i>For Work In Restricted Working Space, Add</i>	3.99	
26 05 33 13-1005 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	58.54	7.86
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
<i>For Elevated Installation &gt;40', Add</i>	8.64	
<i>For Work In Restricted Working Space, Add</i>	4.71	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1006 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	72.58	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
26 05 33 13-1007 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	94.17	10.27
For Elevated Installation >10' To 15', Add	2.05	
For Elevated Installation >15' To 20', Add	4.11	
For Elevated Installation >20' To 25', Add	5.13	
For Elevated Installation >25' To 30', Add	7.19	
For Elevated Installation >30' To 35', Add	8.21	
For Elevated Installation >35' To 40', Add	10.27	
For Elevated Installation >40', Add	11.29	
For Work In Restricted Working Space, Add	6.16	
26 05 33 13-1008 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	102.63	14.50
For Elevated Installation >10' To 15', Add	2.90	
For Elevated Installation >15' To 20', Add	5.80	
For Elevated Installation >20' To 25', Add	7.25	
For Elevated Installation >25' To 30', Add	10.15	
For Elevated Installation >30' To 35', Add	11.60	
For Elevated Installation >35' To 40', Add	14.50	
For Elevated Installation >40', Add	15.94	
For Work In Restricted Working Space, Add	8.70	
26 05 33 13-1009 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	124.95	16.30
For Elevated Installation >10' To 15', Add	3.26	
For Elevated Installation >15' To 20', Add	6.52	
For Elevated Installation >20' To 25', Add	8.16	
For Elevated Installation >25' To 30', Add	11.42	
For Elevated Installation >30' To 35', Add	13.05	
For Elevated Installation >35' To 40', Add	16.31	
For Elevated Installation >40', Add	17.94	
For Work In Restricted Working Space, Add	9.79	
26 05 33 13-1010 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	133.41	20.53
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.27	
For Elevated Installation >25' To 30', Add	14.38	
For Elevated Installation >30' To 35', Add	16.43	
For Elevated Installation >35' To 40', Add	20.54	
For Elevated Installation >40', Add	22.59	
For Work In Restricted Working Space, Add	12.32	
<b>26 05 33 13-1011 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0797)</b>		
26 05 33 13-1012 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	131.55	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1013 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	145.55	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.93	
26 05 33 13-1014 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	170.09	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1015 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	202.01	44.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
<i>For Elevated Installation &gt;40', Add</i>	48.50	
<i>For Work In Restricted Working Space, Add</i>	26.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	
26 05 33 13-1016 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	252.24	48.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
<i>For Elevated Installation &gt;40', Add</i>	53.15	
<i>For Work In Restricted Working Space, Add</i>	28.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.99	
26 05 33 13-1017 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	305.76	57.98
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
<i>For Elevated Installation &gt;40', Add</i>	63.78	
<i>For Work In Restricted Working Space, Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.79	
26 05 33 13-1018 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	443.07	81.54
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.31	
<i>For Elevated Installation &gt;15' To 20', Add</i>	32.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	40.77	
<i>For Elevated Installation &gt;25' To 30', Add</i>	57.08	
<i>For Elevated Installation &gt;30' To 35', Add</i>	65.23	
<i>For Elevated Installation &gt;35' To 40', Add</i>	81.54	
<i>For Elevated Installation &gt;40', Add</i>	89.69	
<i>For Work In Restricted Working Space, Add</i>	48.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.92	
26 05 33 13-1019 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	567.64	108.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	21.75	
<i>For Elevated Installation &gt;15' To 20', Add</i>	43.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	54.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	76.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	86.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	108.73	
<i>For Elevated Installation &gt;40', Add</i>	119.60	
<i>For Work In Restricted Working Space, Add</i>	65.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.24	
26 05 33 13-1020 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,145.38	135.90
<i>For Elevated Installation &gt;10' To 15', Add</i>	27.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	54.36	
<i>For Elevated Installation &gt;20' To 25', Add</i>	67.95	
<i>For Elevated Installation &gt;25' To 30', Add</i>	95.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	108.72	
<i>For Elevated Installation &gt;35' To 40', Add</i>	135.91	
<i>For Elevated Installation &gt;40', Add</i>	149.50	
<i>For Work In Restricted Working Space, Add</i>	81.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.54	
26 05 33 13-1021 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,681.35	165.50
<i>For Elevated Installation &gt;10' To 15', Add</i>	33.10	
<i>For Elevated Installation &gt;15' To 20', Add</i>	66.20	
<i>For Elevated Installation &gt;20' To 25', Add</i>	82.75	
<i>For Elevated Installation &gt;25' To 30', Add</i>	115.85	
<i>For Elevated Installation &gt;30' To 35', Add</i>	132.40	
<i>For Elevated Installation &gt;35' To 40', Add</i>	165.50	
<i>For Elevated Installation &gt;40', Add</i>	182.05	
<i>For Work In Restricted Working Space, Add</i>	99.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.30	

26 05 33 13-1022 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0797)

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1023 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	227.30	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1024 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	244.56	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.93	
26 05 33 13-1025 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	279.26	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.83	
26 05 33 13-1026 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	312.42	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.45	
26 05 33 13-1027 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	379.33	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.99	
26 05 33 13-1028 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	426.66	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.79	
26 05 33 13-1029 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	600.27	81.54
For Elevated Installation >10' To 15', Add	16.31	
For Elevated Installation >15' To 20', Add	32.62	
For Elevated Installation >20' To 25', Add	40.77	
For Elevated Installation >25' To 30', Add	57.08	
For Elevated Installation >30' To 35', Add	65.23	
For Elevated Installation >35' To 40', Add	81.54	
For Elevated Installation >40', Add	89.69	
For Work In Restricted Working Space, Add	48.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.92	
26 05 33 13-1030 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	836.85	108.72
For Elevated Installation >10' To 15', Add	21.75	
For Elevated Installation >15' To 20', Add	43.49	
For Elevated Installation >20' To 25', Add	54.36	
For Elevated Installation >25' To 30', Add	76.11	
For Elevated Installation >30' To 35', Add	86.98	
For Elevated Installation >35' To 40', Add	108.73	
For Elevated Installation >40', Add	119.60	
For Work In Restricted Working Space, Add	65.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.24	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1031 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,223.56	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.54	
26 05 33 13-1032 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,783.66	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.75	
For Elevated Installation >25' To 30', Add	115.85	
For Elevated Installation >30' To 35', Add	132.40	
For Elevated Installation >35' To 40', Add	165.50	
For Elevated Installation >40', Add	182.05	
For Work In Restricted Working Space, Add	99.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.30	
<b>26 05 33 13-1033 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1034 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	181.20	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1035 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	192.94	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.93	
26 05 33 13-1036 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	221.69	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.83	
26 05 33 13-1037 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	247.12	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.45	
26 05 33 13-1038 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	341.32	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.99	
26 05 33 13-1039 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	428.96	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.79	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1040	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	667.12	81.54
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.31	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	32.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	40.77	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	57.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	65.23	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	81.54	
			<i>For Elevated Installation &gt;40', Add</i>	89.69	
			<i>For Work In Restricted Working Space, Add</i>	48.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.92	
26 05 33 13-1041	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	972.86	108.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	21.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	43.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	54.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	76.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	86.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	108.73	
			<i>For Elevated Installation &gt;40', Add</i>	119.60	
			<i>For Work In Restricted Working Space, Add</i>	65.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.24	
26 05 33 13-1042	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,223.56	135.90
			<i>For Elevated Installation &gt;10' To 15', Add</i>	27.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	54.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	67.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	95.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	108.72	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	135.91	
			<i>For Elevated Installation &gt;40', Add</i>	149.50	
			<i>For Work In Restricted Working Space, Add</i>	81.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.54	
26 05 33 13-1043			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1044	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	240.83	28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 05 33 13-1045	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	267.13	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-1046	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	331.48	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.83	
26 05 33 13-1047	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	408.98	44.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
			<i>For Elevated Installation &gt;40', Add</i>	48.50	
			<i>For Work In Restricted Working Space, Add</i>	26.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1048 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	570.00	48.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
<i>For Elevated Installation &gt;40', Add</i>	53.15	
<i>For Work In Restricted Working Space, Add</i>	28.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.99	
26 05 33 13-1049 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	683.13	57.98
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
<i>For Elevated Installation &gt;40', Add</i>	63.78	
<i>For Work In Restricted Working Space, Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.79	
<b>26 05 33 13-1050 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1051 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	45.63	11.61
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
<i>For Elevated Installation &gt;40', Add</i>	12.78	
<i>For Work In Restricted Working Space, Add</i>	6.97	
26 05 33 13-1052 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	60.71	13.94
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.79	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.97	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.15	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.94	
<i>For Elevated Installation &gt;40', Add</i>	15.33	
<i>For Work In Restricted Working Space, Add</i>	8.36	
26 05 33 13-1053 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	77.03	18.59
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.72	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.01	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.87	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.59	
<i>For Elevated Installation &gt;40', Add</i>	20.44	
<i>For Work In Restricted Working Space, Add</i>	11.15	
26 05 33 13-1054 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	106.29	23.23
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
<i>For Elevated Installation &gt;40', Add</i>	25.56	
<i>For Work In Restricted Working Space, Add</i>	13.94	
26 05 33 13-1055 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	139.80	27.88
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.15	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	27.88	
<i>For Elevated Installation &gt;40', Add</i>	30.67	
<i>For Work In Restricted Working Space, Add</i>	16.73	
26 05 33 13-1056 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	242.74	32.53
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
<i>For Elevated Installation &gt;40', Add</i>	35.78	
<i>For Work In Restricted Working Space, Add</i>	19.52	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1057 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	354.09	37.17
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Work In Restricted Working Space, Add	22.30	
26 05 33 13-1058 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	442.39	41.82
For Elevated Installation >10' To 15', Add	8.36	
For Elevated Installation >15' To 20', Add	16.73	
For Elevated Installation >20' To 25', Add	20.91	
For Elevated Installation >25' To 30', Add	29.27	
For Elevated Installation >30' To 35', Add	33.46	
For Elevated Installation >35' To 40', Add	41.82	
For Elevated Installation >40', Add	46.00	
For Work In Restricted Working Space, Add	25.09	
26 05 33 13-1059 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	617.03	48.78
For Elevated Installation >10' To 15', Add	9.76	
For Elevated Installation >15' To 20', Add	19.51	
For Elevated Installation >20' To 25', Add	24.39	
For Elevated Installation >25' To 30', Add	34.15	
For Elevated Installation >30' To 35', Add	39.03	
For Elevated Installation >35' To 40', Add	48.79	
For Elevated Installation >40', Add	53.66	
For Work In Restricted Working Space, Add	29.27	
26 05 33 13-1060 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	749.65	55.76
For Elevated Installation >10' To 15', Add	11.15	
For Elevated Installation >15' To 20', Add	22.30	
For Elevated Installation >20' To 25', Add	27.88	
For Elevated Installation >25' To 30', Add	39.03	
For Elevated Installation >30' To 35', Add	44.60	
For Elevated Installation >35' To 40', Add	55.76	
For Elevated Installation >40', Add	61.33	
For Work In Restricted Working Space, Add	33.45	
26 05 33 13-1061 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	1,199.96	88.27
For Elevated Installation >10' To 15', Add	17.66	
For Elevated Installation >15' To 20', Add	35.31	
For Elevated Installation >20' To 25', Add	44.14	
For Elevated Installation >25' To 30', Add	61.80	
For Elevated Installation >30' To 35', Add	70.62	
For Elevated Installation >35' To 40', Add	88.28	
For Elevated Installation >40', Add	97.11	
For Work In Restricted Working Space, Add	52.97	
26 05 33 13-1062 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	1,638.43	134.74
For Elevated Installation >10' To 15', Add	26.95	
For Elevated Installation >15' To 20', Add	53.90	
For Elevated Installation >20' To 25', Add	67.37	
For Elevated Installation >25' To 30', Add	94.32	
For Elevated Installation >30' To 35', Add	107.79	
For Elevated Installation >35' To 40', Add	134.74	
For Elevated Installation >40', Add	148.21	
For Work In Restricted Working Space, Add	80.84	
<b>26 05 33 13-1063 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1064 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	170.68	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	
26 05 33 13-1065 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	202.09	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
26 05 33 13-1066 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	222.65	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1067 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	321.36	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
26 05 33 13-1068 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	425.21	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
26 05 33 13-1069 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	458.20	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
26 05 33 13-1070 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	1,089.80	80.34
For Elevated Installation >10' To 15', Add	16.07	
For Elevated Installation >15' To 20', Add	32.13	
For Elevated Installation >20' To 25', Add	40.17	
For Elevated Installation >25' To 30', Add	56.23	
For Elevated Installation >30' To 35', Add	64.27	
For Elevated Installation >35' To 40', Add	80.34	
For Elevated Installation >40', Add	88.37	
For Work In Restricted Working Space, Add	48.20	
26 05 33 13-1071 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	1,146.81	108.72
For Elevated Installation >10' To 15', Add	21.75	
For Elevated Installation >15' To 20', Add	43.49	
For Elevated Installation >20' To 25', Add	54.37	
For Elevated Installation >25' To 30', Add	76.11	
For Elevated Installation >30' To 35', Add	86.98	
For Elevated Installation >35' To 40', Add	108.73	
For Elevated Installation >40', Add	119.60	
For Work In Restricted Working Space, Add	65.24	
26 05 33 13-1072 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	1,881.60	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.96	
For Elevated Installation >25' To 30', Add	95.14	
For Elevated Installation >30' To 35', Add	108.73	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.55	
26 05 33 13-1073 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	1,956.42	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.76	
For Elevated Installation >25' To 30', Add	115.86	
For Elevated Installation >30' To 35', Add	132.41	
For Elevated Installation >35' To 40', Add	165.51	
For Elevated Installation >40', Add	182.06	
For Work In Restricted Working Space, Add	99.31	
<b>26 05 33 13-1074 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1075 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	250.90	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1076	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	285.80	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1077	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	567.72	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
26 05 33 13-1078	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	594.97	44.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
			<i>For Elevated Installation &gt;40', Add</i>	48.50	
			<i>For Work In Restricted Working Space, Add</i>	26.45	
26 05 33 13-1079	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	814.97	48.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
			<i>For Elevated Installation &gt;40', Add</i>	53.15	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
26 05 33 13-1080	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	868.37	57.98
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
			<i>For Elevated Installation &gt;40', Add</i>	63.78	
			<i>For Work In Restricted Working Space, Add</i>	34.79	
26 05 33 13-1081	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	1,673.88	81.54
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.31	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	32.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	40.77	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	57.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	65.23	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	81.54	
			<i>For Elevated Installation &gt;40', Add</i>	89.69	
			<i>For Work In Restricted Working Space, Add</i>	48.92	
26 05 33 13-1082	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	1,758.11	108.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	21.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	43.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	54.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	76.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	86.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	108.73	
			<i>For Elevated Installation &gt;40', Add</i>	119.60	
			<i>For Work In Restricted Working Space, Add</i>	65.24	
26 05 33 13-1083	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow .....	2,578.91	135.90
			<i>For Elevated Installation &gt;10' To 15', Add</i>	27.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	54.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	67.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	95.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	108.72	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	135.91	
			<i>For Elevated Installation &gt;40', Add</i>	149.50	
			<i>For Work In Restricted Working Space, Add</i>	81.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1084 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,918.55	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.75	
For Elevated Installation >25' To 30', Add	115.85	
For Elevated Installation >30' To 35', Add	132.40	
For Elevated Installation >35' To 40', Add	165.50	
For Elevated Installation >40', Add	182.05	
For Work In Restricted Working Space, Add	99.30	
<b>26 05 33 13-1085 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-1086 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	95.69	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
26 05 33 13-1087 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	111.18	18.73
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.49	
For Elevated Installation >20' To 25', Add	9.36	
For Elevated Installation >25' To 30', Add	13.11	
For Elevated Installation >30' To 35', Add	14.98	
For Elevated Installation >35' To 40', Add	18.73	
For Elevated Installation >40', Add	20.60	
For Work In Restricted Working Space, Add	11.24	
26 05 33 13-1088 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	132.36	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-1089 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	156.32	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
<b>26 05 33 13-1090 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-1091 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	74.79	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
26 05 33 13-1092 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	86.10	18.73
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.49	
For Elevated Installation >20' To 25', Add	9.36	
For Elevated Installation >25' To 30', Add	13.11	
For Elevated Installation >30' To 35', Add	14.98	
For Elevated Installation >35' To 40', Add	18.73	
For Elevated Installation >40', Add	20.60	
For Work In Restricted Working Space, Add	11.24	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1093	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow .....	120.15	22.95
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
			<i>For Elevated Installation &gt;40', Add</i>	25.25	
			<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33 13-1094	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow .....	156.41	26.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
			<i>For Elevated Installation &gt;40', Add</i>	29.23	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
26 05 33 13-1095	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow .....	190.99	30.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
			<i>For Elevated Installation &gt;40', Add</i>	33.22	
			<i>For Work In Restricted Working Space, Add</i>	18.12	
26 05 33 13-1096	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow .....	276.40	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1097	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow .....	378.38	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.01	
26 05 33 13-1098			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1099	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	95.73	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
26 05 33 13-1100	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	114.08	18.73
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	18.73	
			<i>For Elevated Installation &gt;40', Add</i>	20.60	
			<i>For Work In Restricted Working Space, Add</i>	11.24	
26 05 33 13-1101	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	132.39	22.95
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
			<i>For Elevated Installation &gt;40', Add</i>	25.25	
			<i>For Work In Restricted Working Space, Add</i>	13.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1102 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	156.36	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
<b>26 05 33 13-1103 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-1104 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	74.86	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
26 05 33 13-1105 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	86.10	18.73
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.75	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.73	
<i>For Elevated Installation &gt;40', Add</i>	20.60	
<i>For Work In Restricted Working Space, Add</i>	11.24	
26 05 33 13-1106 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	111.49	22.95
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33 13-1107 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	139.60	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
26 05 33 13-1108 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	163.61	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
26 05 33 13-1109 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	188.73	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1110 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	356.03	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.01	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1111	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	406.49	56.78
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.78	
			<i>For Elevated Installation &gt;40', Add</i>	62.46	
			<i>For Work In Restricted Working Space, Add</i>	34.07	
26 05 33 13-1112	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	438.07	64.02
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.61	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	32.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	51.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	64.03	
			<i>For Elevated Installation &gt;40', Add</i>	70.43	
			<i>For Work In Restricted Working Space, Add</i>	38.42	
26 05 33 13-1113	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	539.71	83.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	83.36	
			<i>For Elevated Installation &gt;40', Add</i>	91.69	
			<i>For Work In Restricted Working Space, Add</i>	50.01	
<b>26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0797)</small></b>					
26 05 33 13-1115	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	157.15	28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 05 33 13-1116	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	169.51	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93	
26 05 33 13-1117	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	185.28	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.83	
26 05 33 13-1118	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow .....	250.04	44.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
			<i>For Elevated Installation &gt;40', Add</i>	48.50	
			<i>For Work In Restricted Working Space, Add</i>	26.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	
26 05 33 13-1119	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow .....	319.49	48.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
			<i>For Elevated Installation &gt;40', Add</i>	53.15	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.99	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-1120 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1121 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	190.27	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	
26 05 33 13-1122 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	204.66	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-1123 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	239.36	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
26 05 33 13-1124 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	343.91	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
26 05 33 13-1125 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	562.71	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
26 05 33 13-1126 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	607.03	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
<b>26 05 33 13-1127 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1128 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	209.06	28.99
For Elevated Installation >10' To 15', Add	5.80	
For Elevated Installation >15' To 20', Add	11.60	
For Elevated Installation >20' To 25', Add	14.50	
For Elevated Installation >25' To 30', Add	20.29	
For Elevated Installation >30' To 35', Add	23.19	
For Elevated Installation >35' To 40', Add	28.99	
For Elevated Installation >40', Add	31.89	
For Work In Restricted Working Space, Add	17.39	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1129	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	236.00	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1130	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	257.24	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
26 05 33 13-1131	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	362.08	44.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
			<i>For Elevated Installation &gt;40', Add</i>	48.50	
			<i>For Work In Restricted Working Space, Add</i>	26.45	
26 05 33 13-1132	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	606.06	48.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
			<i>For Elevated Installation &gt;40', Add</i>	53.15	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
26 05 33 13-1133	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	646.81	57.98
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
			<i>For Elevated Installation &gt;40', Add</i>	63.78	
			<i>For Work In Restricted Working Space, Add</i>	34.79	
26 05 33 13-1134			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1135	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	209.20	28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1136	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	230.45	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1137	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	274.50	38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1138 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	375.92	44.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
<i>For Elevated Installation &gt;40', Add</i>	48.50	
<i>For Work In Restricted Working Space, Add</i>	26.45	
26 05 33 13-1139 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	626.72	48.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.32	
<i>For Elevated Installation &gt;40', Add</i>	53.15	
<i>For Work In Restricted Working Space, Add</i>	28.99	
26 05 33 13-1140 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	672.27	57.98
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.19	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.99	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.39	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.99	
<i>For Elevated Installation &gt;40', Add</i>	63.78	
<i>For Work In Restricted Working Space, Add</i>	34.79	
<b>26 05 33 13-1141 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-1142 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	261.23	28.99
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
<i>For Elevated Installation &gt;40', Add</i>	31.89	
<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1143 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	288.29	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1144 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	312.11	38.05
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
<i>For Elevated Installation &gt;40', Add</i>	41.86	
<i>For Work In Restricted Working Space, Add</i>	22.83	
26 05 33 13-1145 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	796.37	44.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.82	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.64	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.09	
<i>For Elevated Installation &gt;40', Add</i>	48.50	
<i>For Work In Restricted Working Space, Add</i>	26.45	

**26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0797)**  
 Note: Excludes cover.

**26 Electrical**  
**26 05 Common Work Results For Electrical**  
**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1147	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....122.51		28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1148	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....134.46		33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1149	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....149.96		38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
26 05 33 13-1150	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....136.62		28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1151	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....146.80		33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....167.11		38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	
<b>26 05 33 13-1153 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-0797)</small></b>					
Note: Excludes cover.					
26 05 33 13-1154	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....129.18		28.99
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
			<i>For Elevated Installation &gt;40', Add</i>	31.89	
			<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1155	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....141.97		33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1156	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....155.15		38.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
			<i>For Elevated Installation &gt;40', Add</i>	41.86	
			<i>For Work In Restricted Working Space, Add</i>	22.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....	146.15	28.99
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.50	
<i>For Elevated Installation &gt;25' To 30', Add</i>	20.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	23.19	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.99	
<i>For Elevated Installation &gt;40', Add</i>	31.89	
<i>For Work In Restricted Working Space, Add</i>	17.39	
26 05 33 13-1158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....	159.11	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....	179.78	38.05
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	26.64	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.06	
<i>For Elevated Installation &gt;40', Add</i>	41.86	
<i>For Work In Restricted Working Space, Add</i>	22.83	
<b>26 05 33 13-1160 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1161 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover .....	47.18	3.63
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.45	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.54	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.90	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.63	
<i>For Elevated Installation &gt;40', Add</i>	3.99	
<i>For Work In Restricted Working Space, Add</i>	2.18	
26 05 33 13-1162 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover .....	64.31	4.23
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.96	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.23	
<i>For Elevated Installation &gt;40', Add</i>	4.65	
<i>For Work In Restricted Working Space, Add</i>	2.54	
26 05 33 13-1163 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover .....	60.65	4.23
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.96	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.23	
<i>For Elevated Installation &gt;40', Add</i>	4.65	
<i>For Work In Restricted Working Space, Add</i>	2.54	
26 05 33 13-1164 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover .....	53.81	4.23
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.85	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.96	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.23	
<i>For Elevated Installation &gt;40', Add</i>	4.65	
<i>For Work In Restricted Working Space, Add</i>	2.54	
26 05 33 13-1165 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover .....	265.51	6.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
<i>For Elevated Installation &gt;40', Add</i>	6.64	
<i>For Work In Restricted Working Space, Add</i>	3.62	
26 05 33 13-1166 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover .....	235.86	6.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.42	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.02	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.83	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.04	
<i>For Elevated Installation &gt;40', Add</i>	6.64	
<i>For Work In Restricted Working Space, Add</i>	3.62	



**26 Electrical**  
**26 05 Common Work Results For Electrical**  
**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR  
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1167		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies</b> <small>(26 05 33 13-0797)</small> Note: Includes covers.		
26 05 33	13-1168	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....270.68 For Elevated Installation >10' To 15', Add 7.61 For Elevated Installation >15' To 20', Add 15.22 For Elevated Installation >20' To 25', Add 19.03 For Elevated Installation >25' To 30', Add 26.64 For Elevated Installation >30' To 35', Add 30.44 For Elevated Installation >35' To 40', Add 38.06 For Elevated Installation >40', Add 41.86 For Work In Restricted Working Space, Add 22.83	38.05	
26 05 33	13-1169	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....303.74 For Elevated Installation >10' To 15', Add 8.82 For Elevated Installation >15' To 20', Add 17.64 For Elevated Installation >20' To 25', Add 22.05 For Elevated Installation >25' To 30', Add 30.86 For Elevated Installation >30' To 35', Add 35.27 For Elevated Installation >35' To 40', Add 44.09 For Elevated Installation >40', Add 48.50 For Work In Restricted Working Space, Add 26.45	44.09	
26 05 33	13-1170	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....422.06 For Elevated Installation >10' To 15', Add 9.66 For Elevated Installation >15' To 20', Add 19.33 For Elevated Installation >20' To 25', Add 24.16 For Elevated Installation >25' To 30', Add 33.82 For Elevated Installation >30' To 35', Add 38.66 For Elevated Installation >35' To 40', Add 48.32 For Elevated Installation >40', Add 53.15 For Work In Restricted Working Space, Add 28.99	48.32	
26 05 33	13-1171	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....502.83 For Elevated Installation >10' To 15', Add 11.60 For Elevated Installation >15' To 20', Add 23.19 For Elevated Installation >20' To 25', Add 28.99 For Elevated Installation >25' To 30', Add 40.59 For Elevated Installation >30' To 35', Add 46.39 For Elevated Installation >35' To 40', Add 57.99 For Elevated Installation >40', Add 63.78 For Work In Restricted Working Space, Add 34.79	57.98	
26 05 33	13-1172	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....726.89 For Elevated Installation >10' To 15', Add 16.31 For Elevated Installation >15' To 20', Add 32.62 For Elevated Installation >20' To 25', Add 40.77 For Elevated Installation >25' To 30', Add 57.08 For Elevated Installation >30' To 35', Add 65.23 For Elevated Installation >35' To 40', Add 81.54 For Elevated Installation >40', Add 89.69 For Work In Restricted Working Space, Add 48.92	81.54	
26 05 33	13-1173	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....915.96 For Elevated Installation >10' To 15', Add 21.75 For Elevated Installation >15' To 20', Add 43.49 For Elevated Installation >20' To 25', Add 54.36 For Elevated Installation >25' To 30', Add 76.11 For Elevated Installation >30' To 35', Add 86.98 For Elevated Installation >35' To 40', Add 108.73 For Elevated Installation >40', Add 119.60 For Work In Restricted Working Space, Add 65.24	108.72	
26 05 33	13-1174	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,347.60 For Elevated Installation >10' To 15', Add 27.18 For Elevated Installation >15' To 20', Add 54.36 For Elevated Installation >20' To 25', Add 67.95 For Elevated Installation >25' To 30', Add 95.13 For Elevated Installation >30' To 35', Add 108.72 For Elevated Installation >35' To 40', Add 135.91 For Elevated Installation >40', Add 149.50 For Work In Restricted Working Space, Add 81.54	135.90	
26 05 33	13-1175	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,672.77 For Elevated Installation >10' To 15', Add 33.10 For Elevated Installation >15' To 20', Add 66.20 For Elevated Installation >20' To 25', Add 82.75 For Elevated Installation >25' To 30', Add 115.85 For Elevated Installation >30' To 35', Add 132.40 For Elevated Installation >35' To 40', Add 165.50 For Elevated Installation >40', Add 182.05 For Work In Restricted Working Space, Add 99.30	165.50	
26 05 33	13-1176	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....270.68 For Elevated Installation >10' To 15', Add 7.61 For Elevated Installation >15' To 20', Add 15.22 For Elevated Installation >20' To 25', Add 19.03 For Elevated Installation >25' To 30', Add 26.64 For Elevated Installation >30' To 35', Add 30.44 For Elevated Installation >35' To 40', Add 38.06 For Elevated Installation >40', Add 41.86 For Work In Restricted Working Space, Add 22.83	38.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1177 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....303.74	303.74	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
26 05 33 13-1178 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....420.86	420.86	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
26 05 33 13-1179 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....490.76	490.76	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
26 05 33 13-1180 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....738.01	738.01	81.54
For Elevated Installation >10' To 15', Add	16.31	
For Elevated Installation >15' To 20', Add	32.62	
For Elevated Installation >20' To 25', Add	40.77	
For Elevated Installation >25' To 30', Add	57.08	
For Elevated Installation >30' To 35', Add	65.23	
For Elevated Installation >35' To 40', Add	81.54	
For Elevated Installation >40', Add	89.69	
For Work In Restricted Working Space, Add	48.92	
26 05 33 13-1181 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....965.83	965.83	108.72
For Elevated Installation >10' To 15', Add	21.75	
For Elevated Installation >15' To 20', Add	43.49	
For Elevated Installation >20' To 25', Add	54.36	
For Elevated Installation >25' To 30', Add	76.11	
For Elevated Installation >30' To 35', Add	86.98	
For Elevated Installation >35' To 40', Add	108.73	
For Elevated Installation >40', Add	119.60	
For Work In Restricted Working Space, Add	65.24	
26 05 33 13-1182 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....1,407.80	1,407.80	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-1183 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....1,710.26	1,710.26	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.75	
For Elevated Installation >25' To 30', Add	115.85	
For Elevated Installation >30' To 35', Add	132.40	
For Elevated Installation >35' To 40', Add	165.50	
For Elevated Installation >40', Add	182.05	
For Work In Restricted Working Space, Add	99.30	
26 05 33 13-1184 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....270.68	270.68	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
26 05 33 13-1185 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....303.74	303.74	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1186 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	420.86	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	
26 05 33 13-1187 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	490.76	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
26 05 33 13-1188 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	738.01	81.54
For Elevated Installation >10' To 15', Add	16.31	
For Elevated Installation >15' To 20', Add	32.62	
For Elevated Installation >20' To 25', Add	40.77	
For Elevated Installation >25' To 30', Add	57.08	
For Elevated Installation >30' To 35', Add	65.23	
For Elevated Installation >35' To 40', Add	81.54	
For Elevated Installation >40', Add	89.69	
For Work In Restricted Working Space, Add	48.92	
26 05 33 13-1189 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	965.83	108.72
For Elevated Installation >10' To 15', Add	21.75	
For Elevated Installation >15' To 20', Add	43.49	
For Elevated Installation >20' To 25', Add	54.36	
For Elevated Installation >25' To 30', Add	76.11	
For Elevated Installation >30' To 35', Add	86.98	
For Elevated Installation >35' To 40', Add	108.73	
For Elevated Installation >40', Add	119.60	
For Work In Restricted Working Space, Add	65.24	
26 05 33 13-1190 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,407.80	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-1191 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,710.26	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.75	
For Elevated Installation >25' To 30', Add	115.85	
For Elevated Installation >30' To 35', Add	132.40	
For Elevated Installation >35' To 40', Add	165.50	
For Elevated Installation >40', Add	182.05	
For Work In Restricted Working Space, Add	99.30	
26 05 33 13-1192 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	270.68	38.05
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.03	
For Elevated Installation >25' To 30', Add	26.64	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.06	
For Elevated Installation >40', Add	41.86	
For Work In Restricted Working Space, Add	22.83	
26 05 33 13-1193 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	303.74	44.09
For Elevated Installation >10' To 15', Add	8.82	
For Elevated Installation >15' To 20', Add	17.64	
For Elevated Installation >20' To 25', Add	22.05	
For Elevated Installation >25' To 30', Add	30.86	
For Elevated Installation >30' To 35', Add	35.27	
For Elevated Installation >35' To 40', Add	44.09	
For Elevated Installation >40', Add	48.50	
For Work In Restricted Working Space, Add	26.45	
26 05 33 13-1194 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	422.06	48.32
For Elevated Installation >10' To 15', Add	9.66	
For Elevated Installation >15' To 20', Add	19.33	
For Elevated Installation >20' To 25', Add	24.16	
For Elevated Installation >25' To 30', Add	33.82	
For Elevated Installation >30' To 35', Add	38.66	
For Elevated Installation >35' To 40', Add	48.32	
For Elevated Installation >40', Add	53.15	
For Work In Restricted Working Space, Add	28.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1195 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	497.26	57.98
For Elevated Installation >10' To 15', Add	11.60	
For Elevated Installation >15' To 20', Add	23.19	
For Elevated Installation >20' To 25', Add	28.99	
For Elevated Installation >25' To 30', Add	40.59	
For Elevated Installation >30' To 35', Add	46.39	
For Elevated Installation >35' To 40', Add	57.99	
For Elevated Installation >40', Add	63.78	
For Work In Restricted Working Space, Add	34.79	
26 05 33 13-1196 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	726.89	81.54
For Elevated Installation >10' To 15', Add	16.31	
For Elevated Installation >15' To 20', Add	32.62	
For Elevated Installation >20' To 25', Add	40.77	
For Elevated Installation >25' To 30', Add	57.08	
For Elevated Installation >30' To 35', Add	65.23	
For Elevated Installation >35' To 40', Add	81.54	
For Elevated Installation >40', Add	89.69	
For Work In Restricted Working Space, Add	48.92	
26 05 33 13-1197 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	915.96	108.72
For Elevated Installation >10' To 15', Add	21.75	
For Elevated Installation >15' To 20', Add	43.49	
For Elevated Installation >20' To 25', Add	54.36	
For Elevated Installation >25' To 30', Add	76.11	
For Elevated Installation >30' To 35', Add	86.98	
For Elevated Installation >35' To 40', Add	108.73	
For Elevated Installation >40', Add	119.60	
For Work In Restricted Working Space, Add	65.24	
26 05 33 13-1198 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,347.60	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-1199 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,688.38	165.50
For Elevated Installation >10' To 15', Add	33.10	
For Elevated Installation >15' To 20', Add	66.20	
For Elevated Installation >20' To 25', Add	82.75	
For Elevated Installation >25' To 30', Add	115.85	
For Elevated Installation >30' To 35', Add	132.40	
For Elevated Installation >35' To 40', Add	165.50	
For Elevated Installation >40', Add	182.05	
For Work In Restricted Working Space, Add	99.30	
<b>26 05 33 13-1200 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1201 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	137.63	5.43
For Elevated Installation >10' To 15', Add	1.09	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.72	
For Elevated Installation >25' To 30', Add	3.80	
For Elevated Installation >30' To 35', Add	4.35	
For Elevated Installation >35' To 40', Add	5.44	
For Elevated Installation >40', Add	5.98	
For Work In Restricted Working Space, Add	3.26	
26 05 33 13-1202 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	138.84	6.04
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
For Work In Restricted Working Space, Add	3.62	
26 05 33 13-1203 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	196.31	8.46
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.38	
For Elevated Installation >20' To 25', Add	4.23	
For Elevated Installation >25' To 30', Add	5.92	
For Elevated Installation >30' To 35', Add	6.77	
For Elevated Installation >35' To 40', Add	8.46	
For Elevated Installation >40', Add	9.31	
For Work In Restricted Working Space, Add	5.08	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1204	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	198.72 1.93 3.87 4.83 6.77 7.73 9.67 10.63 5.80	9.66
26 05 33 13-1205	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	348.46 2.30 4.59 5.74 8.03 9.18 11.48 12.62 6.89	11.47
26 05 33 13-1206	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	354.50 2.90 5.80 7.25 10.15 11.60 14.50 15.94 8.70	14.50
26 05 33 13-1207	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	535.20 3.26 6.52 8.16 11.42 13.05 16.31 17.94 9.79	16.30
26 05 33 13-1208	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	544.86 4.23 8.46 10.57 14.80 16.91 21.14 23.25 12.68	21.14
<b>26 05 33 13-1209 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0797)</small></b>					
26 05 33 13-1210	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	235.72 3.02 6.04 7.55 10.57 12.08 15.10 16.61 9.06	15.10
26 05 33 13-1211	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	278.30 3.75 7.49 9.36 13.11 14.98 18.73 20.60 11.24	18.73
26 05 33 13-1212	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	329.25 4.59 9.18 11.48 16.07 18.36 22.96 25.25 13.77	22.95





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1213 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	405.99	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-1214 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	543.95	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-1215 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	755.08	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	
26 05 33 13-1216 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,079.69	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-1217 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,341.40	56.78
For Elevated Installation >10' To 15', Add	11.36	
For Elevated Installation >15' To 20', Add	22.71	
For Elevated Installation >20' To 25', Add	28.39	
For Elevated Installation >25' To 30', Add	39.75	
For Elevated Installation >30' To 35', Add	45.42	
For Elevated Installation >35' To 40', Add	56.78	
For Elevated Installation >40', Add	62.46	
For Work In Restricted Working Space, Add	34.07	
26 05 33 13-1218 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,885.61	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-1219 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,171.06	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
<b>26 05 33 13-1220 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1221 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	376.51	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1222	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	390.29	18.73
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	18.73	
			<i>For Elevated Installation &gt;40', Add</i>	20.60	
			<i>For Work In Restricted Working Space, Add</i>	11.24	
26 05 33	13-1223	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	437.91	22.95
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
			<i>For Elevated Installation &gt;40', Add</i>	25.25	
			<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33	13-1224	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	530.17	26.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
			<i>For Elevated Installation &gt;40', Add</i>	29.23	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
26 05 33	13-1225	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	643.10	30.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
			<i>For Elevated Installation &gt;40', Add</i>	33.22	
			<i>For Work In Restricted Working Space, Add</i>	18.12	
26 05 33	13-1226	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	823.34	33.22
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
			<i>For Elevated Installation &gt;40', Add</i>	36.54	
			<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33	13-1227	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,217.19	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.01	
26 05 33	13-1228	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,525.14	56.78
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.75	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.78	
			<i>For Elevated Installation &gt;40', Add</i>	62.46	
			<i>For Work In Restricted Working Space, Add</i>	34.07	
26 05 33	13-1229	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,944.93	64.02
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.61	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	32.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	51.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	64.03	
			<i>For Elevated Installation &gt;40', Add</i>	70.43	
			<i>For Work In Restricted Working Space, Add</i>	38.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1230 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,433.76	83.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	41.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	58.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	66.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	83.36	
<i>For Elevated Installation &gt;40', Add</i>	91.69	
<i>For Work In Restricted Working Space, Add</i>	50.01	
<b>26 05 33 13-1231 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1232 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	77.38	7.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.45	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.90	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.08	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.80	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.25	
<i>For Elevated Installation &gt;40', Add</i>	7.98	
<i>For Work In Restricted Working Space, Add</i>	4.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.35	
26 05 33 13-1233 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	83.65	9.06
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
<i>For Elevated Installation &gt;40', Add</i>	9.97	
<i>For Work In Restricted Working Space, Add</i>	5.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33 13-1234 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	91.85	10.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.88	
<i>For Elevated Installation &gt;40', Add</i>	11.96	
<i>For Work In Restricted Working Space, Add</i>	6.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-1235 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	103.71	13.29
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
<i>For Elevated Installation &gt;40', Add</i>	14.62	
<i>For Work In Restricted Working Space, Add</i>	7.97	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33 13-1236 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	140.06	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33 13-1237 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	171.46	16.92
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
<i>For Elevated Installation &gt;40', Add</i>	18.60	
<i>For Work In Restricted Working Space, Add</i>	10.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33 13-1238 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	246.08	21.14
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.23	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.80	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.91	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.14	
<i>For Elevated Installation &gt;40', Add</i>	23.25	
<i>For Work In Restricted Working Space, Add</i>	12.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.68	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1239	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	321.09	28.39
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.20	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.87	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.39	
			<i>For Elevated Installation &gt;40', Add</i>	31.23	
			<i>For Work In Restricted Working Space, Add</i>	17.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.03	
26 05 33 13-1240	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	410.84	32.02
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.40	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.80	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.41	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.01	
			<i>For Elevated Installation &gt;40', Add</i>	35.21	
			<i>For Work In Restricted Working Space, Add</i>	19.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.21	
26 05 33 13-1241	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	516.43	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.01	
26 05 33 13-1242	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	638.96	67.65
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	27.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	47.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	54.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	67.65	
			<i>For Elevated Installation &gt;40', Add</i>	74.42	
			<i>For Work In Restricted Working Space, Add</i>	40.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.59	
26 05 33 13-1243	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	963.64	102.07
			<i>For Elevated Installation &gt;10' To 15', Add</i>	20.42	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	40.83	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	51.04	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	71.46	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	81.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	102.08	
			<i>For Elevated Installation &gt;40', Add</i>	112.29	
			<i>For Work In Restricted Working Space, Add</i>	61.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.25	
26 05 33 13-1244			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1245	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	117.38	7.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.63	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.25	
			<i>For Elevated Installation &gt;40', Add</i>	7.98	
			<i>For Work In Restricted Working Space, Add</i>	4.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.35	
26 05 33 13-1246	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	123.94	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33 13-1247	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	133.02	10.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.44	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.61	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.88	
			<i>For Elevated Installation &gt;40', Add</i>	11.96	
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1248 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	151.72	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1249 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	162.72	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-1250 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	184.08	16.92
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.76	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.84	
For Elevated Installation >30' To 35', Add	13.53	
For Elevated Installation >35' To 40', Add	16.91	
For Elevated Installation >40', Add	18.60	
For Work In Restricted Working Space, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 05 33 13-1251 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	281.51	21.14
For Elevated Installation >10' To 15', Add	4.23	
For Elevated Installation >15' To 20', Add	8.46	
For Elevated Installation >20' To 25', Add	10.57	
For Elevated Installation >25' To 30', Add	14.80	
For Elevated Installation >30' To 35', Add	16.91	
For Elevated Installation >35' To 40', Add	21.14	
For Elevated Installation >40', Add	23.25	
For Work In Restricted Working Space, Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.68	
26 05 33 13-1252 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	336.37	28.39
For Elevated Installation >10' To 15', Add	5.68	
For Elevated Installation >15' To 20', Add	11.36	
For Elevated Installation >20' To 25', Add	14.20	
For Elevated Installation >25' To 30', Add	19.87	
For Elevated Installation >30' To 35', Add	22.71	
For Elevated Installation >35' To 40', Add	28.39	
For Elevated Installation >40', Add	31.23	
For Work In Restricted Working Space, Add	17.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.03	
26 05 33 13-1253 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	414.14	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.21	
26 05 33 13-1254 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	537.73	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.01	
26 05 33 13-1255 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	835.96	67.65
For Elevated Installation >10' To 15', Add	13.53	
For Elevated Installation >15' To 20', Add	27.06	
For Elevated Installation >20' To 25', Add	33.83	
For Elevated Installation >25' To 30', Add	47.36	
For Elevated Installation >30' To 35', Add	54.12	
For Elevated Installation >35' To 40', Add	67.65	
For Elevated Installation >40', Add	74.42	
For Work In Restricted Working Space, Add	40.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.59	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1256 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,369.63	102.07
For Elevated Installation >10' To 15', Add	20.42	
For Elevated Installation >15' To 20', Add	40.83	
For Elevated Installation >20' To 25', Add	51.04	
For Elevated Installation >25' To 30', Add	71.46	
For Elevated Installation >30' To 35', Add	81.66	
For Elevated Installation >35' To 40', Add	102.08	
For Elevated Installation >40', Add	112.29	
For Work In Restricted Working Space, Add	61.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.25	
<b>26 05 33 13-1257 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1258 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	126.27	7.25
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.90	
For Elevated Installation >20' To 25', Add	3.63	
For Elevated Installation >25' To 30', Add	5.08	
For Elevated Installation >30' To 35', Add	5.80	
For Elevated Installation >35' To 40', Add	7.25	
For Elevated Installation >40', Add	7.98	
For Work In Restricted Working Space, Add	4.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.35	
26 05 33 13-1259 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	132.38	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	
26 05 33 13-1260 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	141.84	10.87
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.35	
For Elevated Installation >20' To 25', Add	5.44	
For Elevated Installation >25' To 30', Add	7.61	
For Elevated Installation >30' To 35', Add	8.70	
For Elevated Installation >35' To 40', Add	10.88	
For Elevated Installation >40', Add	11.96	
For Work In Restricted Working Space, Add	6.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-1261 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	178.49	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1262 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	195.05	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-1263 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	206.39	16.92
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.76	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.84	
For Elevated Installation >30' To 35', Add	13.53	
For Elevated Installation >35' To 40', Add	16.91	
For Elevated Installation >40', Add	18.60	
For Work In Restricted Working Space, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	

**26 05 33 13-1264 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions** (26 05 33 13-0797)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1265 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	91.91	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
26 05 33 13-1266 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	100.28	18.73
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.75	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.73	
<i>For Elevated Installation &gt;40', Add</i>	20.60	
<i>For Work In Restricted Working Space, Add</i>	11.24	
26 05 33 13-1267 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	130.14	22.95
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.96	
<i>For Elevated Installation &gt;40', Add</i>	25.25	
<i>For Work In Restricted Working Space, Add</i>	13.77	
26 05 33 13-1268 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	188.71	26.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.32	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.63	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.29	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.58	
<i>For Elevated Installation &gt;40', Add</i>	29.23	
<i>For Work In Restricted Working Space, Add</i>	15.95	
26 05 33 13-1269 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	223.91	30.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Work In Restricted Working Space, Add</i>	18.12	
26 05 33 13-1270 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	284.34	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.22	
<i>For Elevated Installation &gt;40', Add</i>	36.54	
<i>For Work In Restricted Working Space, Add</i>	19.93	
26 05 33 13-1271 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	378.36	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.01	
26 05 33 13-1272 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	490.06	41.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
<i>For Elevated Installation &gt;35' To 40', Add</i>	41.68	
<i>For Elevated Installation &gt;40', Add</i>	45.84	
<i>For Work In Restricted Working Space, Add</i>	25.01	
26 05 33 13-1273 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	632.54	64.02
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.61	
<i>For Elevated Installation &gt;20' To 25', Add</i>	32.01	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.62	
<i>For Elevated Installation &gt;30' To 35', Add</i>	51.22	
<i>For Elevated Installation &gt;35' To 40', Add</i>	64.03	
<i>For Elevated Installation &gt;40', Add</i>	70.43	
<i>For Work In Restricted Working Space, Add</i>	38.42	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1274 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	814.49	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-1275 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	1,482.58	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-1276 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	1,850.34	204.16
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
For Work In Restricted Working Space, Add	122.50	
<b>26 05 33 13-1277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0797)</small></b>		
26 05 33 13-1278 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	93.99	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
26 05 33 13-1279 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	108.22	18.73
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.49	
For Elevated Installation >20' To 25', Add	9.36	
For Elevated Installation >25' To 30', Add	13.11	
For Elevated Installation >30' To 35', Add	14.98	
For Elevated Installation >35' To 40', Add	18.73	
For Elevated Installation >40', Add	20.60	
For Work In Restricted Working Space, Add	11.24	
26 05 33 13-1280 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	134.37	22.95
For Elevated Installation >10' To 15', Add	4.59	
For Elevated Installation >15' To 20', Add	9.18	
For Elevated Installation >20' To 25', Add	11.48	
For Elevated Installation >25' To 30', Add	16.07	
For Elevated Installation >30' To 35', Add	18.36	
For Elevated Installation >35' To 40', Add	22.96	
For Elevated Installation >40', Add	25.25	
For Work In Restricted Working Space, Add	13.77	
26 05 33 13-1281 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	196.48	26.58
For Elevated Installation >10' To 15', Add	5.32	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.29	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.26	
For Elevated Installation >35' To 40', Add	26.58	
For Elevated Installation >40', Add	29.23	
For Work In Restricted Working Space, Add	15.95	
26 05 33 13-1282 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	234.69	30.20
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.10	
For Elevated Installation >25' To 30', Add	21.14	
For Elevated Installation >30' To 35', Add	24.16	
For Elevated Installation >35' To 40', Add	30.20	
For Elevated Installation >40', Add	33.22	
For Work In Restricted Working Space, Add	18.12	
26 05 33 13-1283 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	307.63	33.22
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.29	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.58	
For Elevated Installation >35' To 40', Add	33.22	
For Elevated Installation >40', Add	36.54	
For Work In Restricted Working Space, Add	19.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1284 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	428.18	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-1285 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	540.72	41.68
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.68	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.01	
26 05 33 13-1286 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	724.14	64.02
For Elevated Installation >10' To 15', Add	12.81	
For Elevated Installation >15' To 20', Add	25.61	
For Elevated Installation >20' To 25', Add	32.01	
For Elevated Installation >25' To 30', Add	44.82	
For Elevated Installation >30' To 35', Add	51.22	
For Elevated Installation >35' To 40', Add	64.03	
For Elevated Installation >40', Add	70.43	
For Work In Restricted Working Space, Add	38.42	
26 05 33 13-1287 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	905.75	83.35
For Elevated Installation >10' To 15', Add	16.67	
For Elevated Installation >15' To 20', Add	33.34	
For Elevated Installation >20' To 25', Add	41.68	
For Elevated Installation >25' To 30', Add	58.35	
For Elevated Installation >30' To 35', Add	66.68	
For Elevated Installation >35' To 40', Add	83.36	
For Elevated Installation >40', Add	91.69	
For Work In Restricted Working Space, Add	50.01	
26 05 33 13-1288 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	1,649.87	135.90
For Elevated Installation >10' To 15', Add	27.18	
For Elevated Installation >15' To 20', Add	54.36	
For Elevated Installation >20' To 25', Add	67.95	
For Elevated Installation >25' To 30', Add	95.13	
For Elevated Installation >30' To 35', Add	108.72	
For Elevated Installation >35' To 40', Add	135.91	
For Elevated Installation >40', Add	149.50	
For Work In Restricted Working Space, Add	81.54	
26 05 33 13-1289 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	2,120.46	204.16
For Elevated Installation >10' To 15', Add	40.83	
For Elevated Installation >15' To 20', Add	81.66	
For Elevated Installation >20' To 25', Add	102.08	
For Elevated Installation >25' To 30', Add	142.91	
For Elevated Installation >30' To 35', Add	163.33	
For Elevated Installation >35' To 40', Add	204.16	
For Elevated Installation >40', Add	224.58	
For Work In Restricted Working Space, Add	122.50	
<b>26 05 33 13-1290 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1291 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	51.40	4.83
For Elevated Installation >10' To 15', Add	0.97	
For Elevated Installation >15' To 20', Add	1.93	
For Elevated Installation >20' To 25', Add	2.42	
For Elevated Installation >25' To 30', Add	3.38	
For Elevated Installation >30' To 35', Add	3.86	
For Elevated Installation >35' To 40', Add	4.83	
For Elevated Installation >40', Add	5.31	
For Work In Restricted Working Space, Add	2.90	
26 05 33 13-1292 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	56.34	6.04
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.84	
For Elevated Installation >35' To 40', Add	6.05	
For Elevated Installation >40', Add	6.65	
For Work In Restricted Working Space, Add	3.63	
26 05 33 13-1293 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	64.14	6.04
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.84	
For Elevated Installation >35' To 40', Add	6.05	
For Elevated Installation >40', Add	6.65	
For Work In Restricted Working Space, Add	3.63	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1294	EA	1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	79.33	6.64
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.66	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.65	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.65	
			<i>For Elevated Installation &gt;40', Add</i>	7.31	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
26 05 33	13-1295	EA	1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	83.82	6.64
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.66	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.32	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.65	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.65	
			<i>For Elevated Installation &gt;40', Add</i>	7.31	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
26 05 33	13-1296	EA	1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	71.81	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
26 05 33	13-1297	EA	1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	81.85	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
26 05 33	13-1298	EA	1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	127.02	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
26 05 33	13-1299	EA	2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	141.18	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
26 05 33	13-1300	EA	2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	137.28	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
26 05 33	13-1301	EA	2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	144.52	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
26 05 33	13-1302	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	162.74	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1303 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	161.47	10.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.88	
<i>For Elevated Installation &gt;40', Add</i>	11.96	
<i>For Work In Restricted Working Space, Add</i>	6.53	
26 05 33 13-1304 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	205.78	15.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
<i>For Elevated Installation &gt;40', Add</i>	16.61	
<i>For Work In Restricted Working Space, Add</i>	9.06	
26 05 33 13-1305 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	303.40	17.52
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.01	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.52	
<i>For Elevated Installation &gt;40', Add</i>	19.27	
<i>For Work In Restricted Working Space, Add</i>	10.51	
26 05 33 13-1306 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	405.87	24.16
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.83	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.66	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.91	
<i>For Elevated Installation &gt;30' To 35', Add</i>	19.33	
<i>For Elevated Installation &gt;35' To 40', Add</i>	24.16	
<i>For Elevated Installation &gt;40', Add</i>	26.58	
<i>For Work In Restricted Working Space, Add</i>	14.50	
26 05 33 13-1307 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	507.30	33.22
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.29	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.61	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.23	
<i>For Elevated Installation &gt;40', Add</i>	36.55	
<i>For Work In Restricted Working Space, Add</i>	19.94	
<b>26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples</b> <small>(26 05 33 13-0797)</small>		
26 05 33 13-1309 EA 1 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	32.00	7.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.45	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.90	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.63	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.08	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.80	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.25	
<i>For Elevated Installation &gt;40', Add</i>	7.98	
<i>For Work In Restricted Working Space, Add</i>	4.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.35	
26 05 33 13-1310 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	35.96	9.06
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
<i>For Elevated Installation &gt;40', Add</i>	9.97	
<i>For Work In Restricted Working Space, Add</i>	5.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33 13-1311 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.77	11.47
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.59	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.74	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.03	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.18	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.48	
<i>For Elevated Installation &gt;40', Add</i>	12.62	
<i>For Work In Restricted Working Space, Add</i>	6.89	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.89	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1312	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.72	13.29
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
			<i>For Elevated Installation &gt;40', Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33	13-1313	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	54.10	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1314	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	35.45	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.71	
26 05 33	13-1315	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.35	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33	13-1316	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.18	11.47
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.59	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.74	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.48	
			<i>For Elevated Installation &gt;40', Add</i>	12.62	
			<i>For Work In Restricted Working Space, Add</i>	6.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.89	
26 05 33	13-1317	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.28	13.29
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
			<i>For Elevated Installation &gt;40', Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33	13-1318	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.86	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1319	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.67	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1320 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	35.62	7.86
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.93	
For Elevated Installation >25' To 30', Add	5.50	
For Elevated Installation >30' To 35', Add	6.28	
For Elevated Installation >35' To 40', Add	7.85	
For Elevated Installation >40', Add	8.64	
For Work In Restricted Working Space, Add	4.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 05 33 13-1321 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	38.51	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	
26 05 33 13-1322 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	44.49	11.47
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.48	
For Elevated Installation >40', Add	12.62	
For Work In Restricted Working Space, Add	6.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.89	
26 05 33 13-1323 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	52.62	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1324 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	57.19	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-1325 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	62.53	16.92
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.76	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.84	
For Elevated Installation >30' To 35', Add	13.53	
For Elevated Installation >35' To 40', Add	16.91	
For Elevated Installation >40', Add	18.60	
For Work In Restricted Working Space, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 05 33 13-1326 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	37.89	7.86
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.93	
For Elevated Installation >25' To 30', Add	5.50	
For Elevated Installation >30' To 35', Add	6.28	
For Elevated Installation >35' To 40', Add	7.85	
For Elevated Installation >40', Add	8.64	
For Work In Restricted Working Space, Add	4.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 05 33 13-1327 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	40.79	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1328	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	46.93	11.47
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.59	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.74	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.48	
			<i>For Elevated Installation &gt;40', Add</i>	12.62	
			<i>For Work In Restricted Working Space, Add</i>	6.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.89	
26 05 33	13-1329	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	54.00	13.29
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
			<i>For Elevated Installation &gt;40', Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33	13-1330	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	58.72	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1331	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	65.21	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33	13-1332	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	90.90	20.53
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.54	
			<i>For Elevated Installation &gt;40', Add</i>	22.59	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.32	
26 05 33	13-1333	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	117.74	28.39
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.87	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.39	
			<i>For Elevated Installation &gt;40', Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	17.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.03	
26 05 33	13-1334	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	38.05	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.71	
26 05 33	13-1335	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	41.10	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1336 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	47.26	11.47
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.48	
For Elevated Installation >40', Add	12.62	
For Work In Restricted Working Space, Add	6.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.89	
26 05 33 13-1337 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	55.39	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1338 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	60.25	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-1339 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	67.89	16.92
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.76	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.84	
For Elevated Installation >30' To 35', Add	13.53	
For Elevated Installation >35' To 40', Add	16.91	
For Elevated Installation >40', Add	18.60	
For Work In Restricted Working Space, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 05 33 13-1340 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	93.26	20.53
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.21	
For Elevated Installation >20' To 25', Add	10.27	
For Elevated Installation >25' To 30', Add	14.37	
For Elevated Installation >30' To 35', Add	16.43	
For Elevated Installation >35' To 40', Add	20.54	
For Elevated Installation >40', Add	22.59	
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-1341 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	122.83	28.39
For Elevated Installation >10' To 15', Add	5.68	
For Elevated Installation >15' To 20', Add	11.35	
For Elevated Installation >20' To 25', Add	14.19	
For Elevated Installation >25' To 30', Add	19.87	
For Elevated Installation >30' To 35', Add	22.71	
For Elevated Installation >35' To 40', Add	28.39	
For Elevated Installation >40', Add	31.22	
For Work In Restricted Working Space, Add	17.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.03	
26 05 33 13-1342 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	146.41	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.21	
26 05 33 13-1343 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	171.49	41.68
For Elevated Installation >10' To 15', Add	8.33	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.67	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.00	



**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1344	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.37	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.71	
26 05 33	13-1345	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.43	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33	13-1346	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.62	11.47
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.59	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.74	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.48	
			<i>For Elevated Installation &gt;40', Add</i>	12.62	
			<i>For Work In Restricted Working Space, Add</i>	6.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.89	
26 05 33	13-1347	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.04	13.29
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
			<i>For Elevated Installation &gt;40', Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33	13-1348	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.92	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1349	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.35	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33	13-1350	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	102.68	20.53
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.54	
			<i>For Elevated Installation &gt;40', Add</i>	22.59	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.32	
26 05 33	13-1351	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	130.46	28.39
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.87	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.39	
			<i>For Elevated Installation &gt;40', Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	17.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1352 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	148.03	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.21	
26 05 33 13-1353 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	175.84	41.68
For Elevated Installation >10' To 15', Add	8.33	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.67	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.00	
26 05 33 13-1354 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	258.63	57.38
For Elevated Installation >10' To 15', Add	11.48	
For Elevated Installation >15' To 20', Add	22.95	
For Elevated Installation >20' To 25', Add	28.69	
For Elevated Installation >25' To 30', Add	40.16	
For Elevated Installation >30' To 35', Add	45.90	
For Elevated Installation >35' To 40', Add	57.38	
For Elevated Installation >40', Add	63.11	
For Work In Restricted Working Space, Add	34.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.43	
26 05 33 13-1355 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	38.96	7.86
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.93	
For Elevated Installation >25' To 30', Add	5.50	
For Elevated Installation >30' To 35', Add	6.28	
For Elevated Installation >35' To 40', Add	7.85	
For Elevated Installation >40', Add	8.64	
For Work In Restricted Working Space, Add	4.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 05 33 13-1356 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	42.03	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	
26 05 33 13-1357 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	48.27	11.47
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.48	
For Elevated Installation >40', Add	12.62	
For Work In Restricted Working Space, Add	6.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.89	
26 05 33 13-1358 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	57.23	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1359 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	62.36	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1360	EA		2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	70.81	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33 13-1361	EA		2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	112.25	20.53
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.54	
			<i>For Elevated Installation &gt;40', Add</i>	22.59	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.32	
26 05 33 13-1362	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	140.59	28.39
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.87	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.39	
			<i>For Elevated Installation &gt;40', Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	17.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.03	
26 05 33 13-1363	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	157.17	32.02
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.40	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.80	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.41	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.01	
			<i>For Elevated Installation &gt;40', Add</i>	35.21	
			<i>For Work In Restricted Working Space, Add</i>	19.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.21	
26 05 33 13-1364	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	191.24	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33 13-1365	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	281.66	57.38
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.48	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.95	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.69	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.38	
			<i>For Elevated Installation &gt;40', Add</i>	63.11	
			<i>For Work In Restricted Working Space, Add</i>	34.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.43	
26 05 33 13-1366	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	39.90	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.71	
26 05 33 13-1367	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	42.94	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1368 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	49.70	11.47
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.48	
For Elevated Installation >40', Add	12.62	
For Work In Restricted Working Space, Add	6.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.89	
26 05 33 13-1369 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	57.54	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1370 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	65.27	15.10
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.55	
For Elevated Installation >25' To 30', Add	10.57	
For Elevated Installation >30' To 35', Add	12.08	
For Elevated Installation >35' To 40', Add	15.10	
For Elevated Installation >40', Add	16.61	
For Work In Restricted Working Space, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 33 13-1371 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	77.93	16.92
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.76	
For Elevated Installation >20' To 25', Add	8.46	
For Elevated Installation >25' To 30', Add	11.84	
For Elevated Installation >30' To 35', Add	13.53	
For Elevated Installation >35' To 40', Add	16.91	
For Elevated Installation >40', Add	18.60	
For Work In Restricted Working Space, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 05 33 13-1372 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	124.01	20.53
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.21	
For Elevated Installation >20' To 25', Add	10.27	
For Elevated Installation >25' To 30', Add	14.37	
For Elevated Installation >30' To 35', Add	16.43	
For Elevated Installation >35' To 40', Add	20.54	
For Elevated Installation >40', Add	22.59	
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-1373 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	154.46	28.39
For Elevated Installation >10' To 15', Add	5.68	
For Elevated Installation >15' To 20', Add	11.35	
For Elevated Installation >20' To 25', Add	14.19	
For Elevated Installation >25' To 30', Add	19.87	
For Elevated Installation >30' To 35', Add	22.71	
For Elevated Installation >35' To 40', Add	28.39	
For Elevated Installation >40', Add	31.22	
For Work In Restricted Working Space, Add	17.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.03	
26 05 33 13-1374 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	180.02	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.21	
26 05 33 13-1375 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	214.36	41.68
For Elevated Installation >10' To 15', Add	8.33	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.67	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.00	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1376	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	297.43	57.38
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.48	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.95	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.69	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.38	
			<i>For Elevated Installation &gt;40', Add</i>	63.11	
			<i>For Work In Restricted Working Space, Add</i>	34.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.43	
26 05 33	13-1377	EA	1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	40.88	7.86
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	7.85	
			<i>For Elevated Installation &gt;40', Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.71	
26 05 33	13-1378	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	43.89	9.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.06	
			<i>For Elevated Installation &gt;40', Add</i>	9.97	
			<i>For Work In Restricted Working Space, Add</i>	5.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33	13-1379	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	51.11	11.47
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.59	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.74	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.18	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.48	
			<i>For Elevated Installation &gt;40', Add</i>	12.62	
			<i>For Work In Restricted Working Space, Add</i>	6.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.89	
26 05 33	13-1380	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	61.84	13.29
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.29	
			<i>For Elevated Installation &gt;40', Add</i>	14.62	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33	13-1381	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	72.21	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1382	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	88.40	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33	13-1383	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	136.44	20.53
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.54	
			<i>For Elevated Installation &gt;40', Add</i>	22.59	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.32	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1384 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	172.22	28.39
For Elevated Installation >10' To 15', Add	5.68	
For Elevated Installation >15' To 20', Add	11.35	
For Elevated Installation >20' To 25', Add	14.19	
For Elevated Installation >25' To 30', Add	19.87	
For Elevated Installation >30' To 35', Add	22.71	
For Elevated Installation >35' To 40', Add	28.39	
For Elevated Installation >40', Add	31.22	
For Work In Restricted Working Space, Add	17.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.03	
26 05 33 13-1385 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	204.03	32.02
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.01	
For Elevated Installation >25' To 30', Add	22.41	
For Elevated Installation >30' To 35', Add	25.61	
For Elevated Installation >35' To 40', Add	32.01	
For Elevated Installation >40', Add	35.21	
For Work In Restricted Working Space, Add	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.21	
26 05 33 13-1386 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	254.81	41.68
For Elevated Installation >10' To 15', Add	8.33	
For Elevated Installation >15' To 20', Add	16.67	
For Elevated Installation >20' To 25', Add	20.84	
For Elevated Installation >25' To 30', Add	29.17	
For Elevated Installation >30' To 35', Add	33.34	
For Elevated Installation >35' To 40', Add	41.67	
For Elevated Installation >40', Add	45.84	
For Work In Restricted Working Space, Add	25.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.00	
26 05 33 13-1387 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	328.92	57.38
For Elevated Installation >10' To 15', Add	11.48	
For Elevated Installation >15' To 20', Add	22.95	
For Elevated Installation >20' To 25', Add	28.69	
For Elevated Installation >25' To 30', Add	40.16	
For Elevated Installation >30' To 35', Add	45.90	
For Elevated Installation >35' To 40', Add	57.38	
For Elevated Installation >40', Add	63.11	
For Work In Restricted Working Space, Add	34.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.43	
26 05 33 13-1388 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	41.88	7.86
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.93	
For Elevated Installation >25' To 30', Add	5.50	
For Elevated Installation >30' To 35', Add	6.28	
For Elevated Installation >35' To 40', Add	7.85	
For Elevated Installation >40', Add	8.64	
For Work In Restricted Working Space, Add	4.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 05 33 13-1389 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	45.02	9.06
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.53	
For Elevated Installation >25' To 30', Add	6.34	
For Elevated Installation >30' To 35', Add	7.25	
For Elevated Installation >35' To 40', Add	9.06	
For Elevated Installation >40', Add	9.97	
For Work In Restricted Working Space, Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	
26 05 33 13-1390 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	54.70	11.47
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.48	
For Elevated Installation >40', Add	12.62	
For Work In Restricted Working Space, Add	6.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.89	
26 05 33 13-1391 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	68.92	13.29
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.62	
For Work In Restricted Working Space, Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1392	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	80.60	15.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.10	
			<i>For Elevated Installation &gt;40', Add</i>	16.61	
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.06	
26 05 33	13-1393	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	96.82	16.92
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.53	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.91	
			<i>For Elevated Installation &gt;40', Add</i>	18.60	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 05 33	13-1394	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	153.03	20.53
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.54	
			<i>For Elevated Installation &gt;40', Add</i>	22.59	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.32	
26 05 33	13-1395	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	198.86	28.39
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.87	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.39	
			<i>For Elevated Installation &gt;40', Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	17.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.03	
26 05 33	13-1396	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	218.76	32.02
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.40	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.80	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.41	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.01	
			<i>For Elevated Installation &gt;40', Add</i>	35.21	
			<i>For Work In Restricted Working Space, Add</i>	19.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.21	
26 05 33	13-1397	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	267.22	41.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.67	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.67	
			<i>For Elevated Installation &gt;40', Add</i>	45.84	
			<i>For Work In Restricted Working Space, Add</i>	25.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.00	
26 05 33	13-1398	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	333.42	57.38
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.48	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.95	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.69	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	45.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.38	
			<i>For Elevated Installation &gt;40', Add</i>	63.11	
			<i>For Work In Restricted Working Space, Add</i>	34.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.43	
26 05 33	13-1399		<b>Aluminum Rigid Conduit (ARC)</b> <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-1400		<b>Aluminum Rigid Conduit (ARC) With Threaded Coupling</b> <small>(26 05 33 13-1399)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33	13-1401	LF	1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	5.66	1.85
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.70	
			<i>For Work In Restricted Working Space, Add</i>	1.40	
26 05 33	13-1402	LF	3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling	6.46	2.04
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.77	
			<i>For Work In Restricted Working Space, Add</i>	1.53	
26 05 33	13-1403	LF	1" Aluminum Rigid Conduit (ARC) With Threaded Coupling	7.48	2.23
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	1.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1404 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	8.55 0.91 1.81	2.42
26 05 33 13-1405 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	9.62 0.98 1.95	2.61
26 05 33 13-1406 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	11.60 1.12 2.23	2.98
26 05 33 13-1407 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	15.87 1.39 2.79	3.72
26 05 33 13-1408 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	19.80 1.67 3.35	4.46
26 05 33 13-1409 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	24.32 2.09 4.18	5.57
26 05 33 13-1410 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	29.95 2.65 5.30	7.06
26 05 33 13-1411 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	39.90 3.35 6.69	8.92
26 05 33 13-1412 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	51.03 4.18 8.36	11.15
<b>26 05 33 13-1413 Aluminum 90 Degree Elbows</b> <small>(26 05 33 13-1399)</small>		
26 05 33 13-1414 EA 1" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	34.87 7.25	9.66
26 05 33 13-1415 EA 1-1/4" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	44.44 8.23	10.96
26 05 33 13-1416 EA 1-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	54.25 9.48	12.64
26 05 33 13-1417 EA 2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	69.58 10.87	14.50
26 05 33 13-1418 EA 2-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	100.33 13.24	17.66
26 05 33 13-1419 EA 3" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	143.94 17.15	22.86
26 05 33 13-1420 EA 3-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	199.48 19.23	25.64
26 05 33 13-1421 EA 4" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	240.89 24.11	32.15
26 05 33 13-1422 EA 5" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	605.61 39.31	52.41
26 05 33 13-1423 EA 6" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	853.63 59.10	78.81
<b>26 05 33 13-1424 Aluminum Bushing Set With Locknut</b> <small>(26 05 33 13-1399)</small>		
26 05 33 13-1425 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10 2.79 2.79	3.72
26 05 33 13-1426 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.36 3.62 3.62	4.83
26 05 33 13-1427 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.40 4.46 4.46	5.94
26 05 33 13-1428 EA 1-1/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.32 5.02 5.02	6.69
26 05 33 13-1429 EA 1-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.19 6.13 6.13	8.18
26 05 33 13-1430 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.87 7.39 7.39	9.85
26 05 33 13-1431 EA 2-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.81 8.78 8.78	11.70
26 05 33 13-1432 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.21 10.04 10.04	13.38
26 05 33 13-1433 EA 3-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.24 10.87 10.87	14.50
26 05 33 13-1434 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.83 11.71 11.71	15.61

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1435 EA 5" Aluminum Bushing Set With Locknut.....	58.05	20.81
For Work In Restricted Working Space, Add	15.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 05 33 13-1436 EA 6" Aluminum Bushing Set With Locknut.....	86.30	31.23
For Work In Restricted Working Space, Add	23.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.42	
<b>26 05 33 13-1437 Schedule 40 Polyvinyl Chloride (PVC) Conduit</b> (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
<b>26 05 33 13-1438 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings</b> (26 05 33 13-1437)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1439 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	3.72	1.42
For Schedule 60, Add	0.22	
For Schedule 80, Add	0.41	
26 05 33 13-1440 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	4.13	1.56
For Schedule 60, Add	0.25	
For Schedule 80, Add	0.47	
26 05 33 13-1441 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	4.89	1.82
For Schedule 60, Add	0.31	
For Schedule 80, Add	0.57	
26 05 33 13-1442 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.65	2.07
For Schedule 60, Add	0.37	
For Schedule 80, Add	0.68	
26 05 33 13-1443 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	6.60	2.42
For Schedule 60, Add	0.44	
For Schedule 80, Add	0.80	
26 05 33 13-1444 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	7.65	2.77
For Schedule 60, Add	0.53	
For Schedule 80, Add	0.95	
26 05 33 13-1445 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	9.35	3.28
For Schedule 60, Add	0.69	
For Schedule 80, Add	1.22	
26 05 33 13-1446 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	10.87	3.81
For Schedule 60, Add	0.81	
For Schedule 80, Add	1.42	
26 05 33 13-1447 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	12.98	4.51
For Schedule 60, Add	0.99	
For Schedule 80, Add	1.73	
26 05 33 13-1448 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	15.75	5.54
For Schedule 60, Add	1.17	
For Schedule 80, Add	2.05	
26 05 33 13-1449 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	22.28	7.79
For Schedule 60, Add	1.67	
For Schedule 80, Add	2.93	
26 05 33 13-1450 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	29.66	10.38
For Schedule 60, Add	2.22	
For Schedule 80, Add	3.89	
<b>26 05 33 13-1451 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows</b> (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1452 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	18.18	6.93
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.08	
For Schedule 80, Add	2.04	
26 05 33 13-1453 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	20.09	7.62
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.21	
For Schedule 80, Add	2.27	
26 05 33 13-1454 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	23.27	8.65
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.49	
For Schedule 80, Add	2.73	
26 05 33 13-1455 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	30.05	11.08
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.97	
For Schedule 80, Add	3.59	
26 05 33 13-1456 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	37.82	13.85
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.53	
For Schedule 80, Add	4.58	
26 05 33 13-1457 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	47.69	17.31
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.27	
For Schedule 80, Add	5.87	
26 05 33 13-1458 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	59.76	20.78
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.55	
For Schedule 80, Add	7.93	
26 05 33 13-1459 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....	73.38	24.23
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	6.23	
For Schedule 80, Add	10.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1460 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	91.37	29.43
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	8.12	
For Schedule 80, Add	13.58	
26 05 33 13-1461 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	109.44	34.63
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	10.05	
For Schedule 80, Add	16.66	
26 05 33 13-1462 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	148.52	43.28
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	15.49	
For Schedule 80, Add	24.93	
26 05 33 13-1463 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	181.24	51.94
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	19.34	
For Schedule 80, Add	30.97	
<b>26 05 33 13-1464 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows</b> (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1465 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	18.18	6.93
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.08	
For Schedule 80, Add	2.04	
26 05 33 13-1466 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	20.03	7.62
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.20	
For Schedule 80, Add	2.25	
26 05 33 13-1467 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	23.18	8.65
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.47	
For Schedule 80, Add	2.70	
26 05 33 13-1468 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	29.80	11.08
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.91	
For Schedule 80, Add	3.51	
26 05 33 13-1469 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	37.25	13.85
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.39	
For Schedule 80, Add	4.38	
26 05 33 13-1470 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	47.39	17.31
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.19	
For Schedule 80, Add	5.77	
26 05 33 13-1471 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	59.19	20.78
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.41	
For Schedule 80, Add	7.73	
26 05 33 13-1472 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	72.66	24.23
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	6.05	
For Schedule 80, Add	10.28	
26 05 33 13-1473 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	89.35	29.43
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	7.62	
For Schedule 80, Add	12.88	
26 05 33 13-1474 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	107.70	34.63
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	9.61	
For Schedule 80, Add	16.06	
26 05 33 13-1475 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	146.27	43.28
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	14.92	
For Schedule 80, Add	24.14	
26 05 33 13-1476 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	174.53	51.94
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	17.66	
For Schedule 80, Add	28.62	
<b>26 05 33 13-1477 Polyvinyl Chloride (PVC) Conduit Female Adapters</b> (26 05 33 13-1437)		
26 05 33 13-1478 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	12.52	4.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1479 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	14.39	5.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-1480 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	16.33	6.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-1481 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	18.34	6.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-1482 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	22.76	8.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.49	
26 05 33 13-1483 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	27.56	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1484 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	37.58	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1485 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	47.29	17.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.98	
26 05 33 13-1486 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	61.37	22.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-1487 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	74.58	27.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.78	
26 05 33 13-1488 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	97.30	34.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-1489 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	121.18	43.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.47	
<b>26 05 33 13-1490 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1437)</b>		
26 05 33 13-1491 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	13.66	4.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1492 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	15.63	4.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1493 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	17.61	5.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-1494 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	20.74	6.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-1495 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	23.11	6.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-1496 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	27.52	7.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.97	
26 05 33 13-1497 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	30.86	9.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-1498 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	35.05	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1499 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	41.41	12.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-1500 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	45.97	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1501 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	56.90	15.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-1502 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	63.85	17.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.98	
<b>26 05 33 13-1503 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1437)</b>		
26 05 33 13-1504 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 33 13-1505 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	16.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.79	
26 05 33 13-1506 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	18.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.32	
26 05 33 13-1507 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	20.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.93	
26 05 33 13-1508 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	22.62	8.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.49	
26 05 33 13-1509 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	27.37	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1510 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	37.19	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1511 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	46.76	17.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.98	
26 05 33 13-1512 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	60.68	22.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-1513 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	73.88	27.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.78	
26 05 33 13-1514 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	95.91	34.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-1515 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	119.52	43.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.47	
<b>26 05 33 13-1516 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1437)</b>		
26 05 33 13-1517 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	38.38	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1518 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	44.26	15.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-1519 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	49.15	17.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.98	
26 05 33 13-1520 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	60.32	20.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 05 33 13-1521 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	74.73	25.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.48	
26 05 33 13-1522 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	95.30	31.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.37	
26 05 33 13-1523 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	151.84	34.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1524 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	162.79	38.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.57	
26 05 33 13-1525 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	178.04	43.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.47	
26 05 33 13-1526 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	199.89	50.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.66	
<b>26 05 33 13-1527 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover</b> <small>(26 05 33 13-1437)</small>		
26 05 33 13-1528 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	51.46	18.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.94	
26 05 33 13-1529 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	57.36	20.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.33	
26 05 33 13-1530 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	62.15	22.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.73	
26 05 33 13-1531 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	76.59	26.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33 13-1532 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	92.62	31.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.70	
26 05 33 13-1533 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	112.83	37.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.88	
<b>26 05 33 13-1534 Polyvinyl Chloride (PVC) Conduit Expansion Joint</b> <small>(26 05 33 13-1437)</small>		
26 05 33 13-1535 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	75.32	17.31
26 05 33 13-1536 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	84.79	20.78
26 05 33 13-1537 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	94.74	24.23
26 05 33 13-1538 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	104.21	27.70
26 05 33 13-1539 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	113.47	31.16
26 05 33 13-1540 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	124.27	34.63
26 05 33 13-1541 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	150.54	39.82
26 05 33 13-1542 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	178.71	45.01
26 05 33 13-1543 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	208.74	51.94
26 05 33 13-1544 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	247.59	60.60
26 05 33 13-1545 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	322.85	72.71
26 05 33 13-1546 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	423.26	93.49
<b>26 05 33 13-1547 Polyvinyl Chloride (PVC) Conduit End Caps</b> <small>(26 05 33 13-1437)</small>		
26 05 33 13-1548 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	10.33	3.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1549 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap .....	12.25	4.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.11	
26 05 33 13-1550 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap .....	14.14	4.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.64	
26 05 33 13-1551 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap .....	16.76	5.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1552 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	19.40	6.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.67	
26 05 33 13-1553 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap .....	22.65	6.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.19	
26 05 33 13-1554 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	31.24	7.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.97	
26 05 33 13-1555 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap .....	34.38	9.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-1556 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	43.11	10.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.53	
26 05 33 13-1557 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap .....	51.34	10.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.05	
26 05 33 13-1558 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap .....	59.44	12.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 33 13-1559 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap .....	74.35	13.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.39	
<b>26 05 33 13-1560 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways)</b> <small>(26 05 33 13-1437)</small>		
26 05 33 13-1561 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	99.54	31.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.37	
26 05 33 13-1562 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121) .....	95.62	20.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.58	
26 05 33 13-1563 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251) .....	220.46	34.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.97	
26 05 33 13-1564 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401) .....	416.86	50.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.66	
<b>26 05 33 13-1565 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-0058)</small>		

Note: Exposed installation. Excludes supporting strap, hanger and fastening.

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1566		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-1565)</small>		
26 05 33	13-1567	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	5.59	1.42
26 05 33	13-1568	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	6.20	1.56
26 05 33	13-1569	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	6.98	1.80
26 05 33	13-1570	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	7.76	2.07
26 05 33	13-1571	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	8.83	2.42
26 05 33	13-1572	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	9.78	2.77
26 05 33	13-1573	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	11.63	3.28
26 05 33	13-1574	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	13.61	3.81
26 05 33	13-1575	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	15.86	4.51
26 05 33	13-1576	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	18.96	5.54
26 05 33	13-1577	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	25.87	7.79
26 05 33	13-1578	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	33.96	10.38
26 05 33	13-1579		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1565)</small>		
26 05 33	13-1580	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	55.05	6.93
			<i>For 24" Radius, Add</i>	3.70	
			<i>For 36" Radius, Add</i>	5.51	
			<i>For 48" Radius, Add</i>	7.31	
26 05 33	13-1581	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	61.30	7.62
			<i>For 24" Radius, Add</i>	4.12	
			<i>For 36" Radius, Add</i>	6.13	
			<i>For 48" Radius, Add</i>	8.14	
26 05 33	13-1582	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	64.32	8.65
			<i>For 24" Radius, Add</i>	4.28	
			<i>For 36" Radius, Add</i>	6.43	
			<i>For 48" Radius, Add</i>	8.58	
26 05 33	13-1583	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	70.80	11.08
			<i>For 24" Radius, Add</i>	4.62	
			<i>For 36" Radius, Add</i>	7.08	
			<i>For 48" Radius, Add</i>	9.54	
26 05 33	13-1584	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	78.16	13.85
			<i>For 24" Radius, Add</i>	5.00	
			<i>For 36" Radius, Add</i>	7.82	
			<i>For 48" Radius, Add</i>	10.64	
26 05 33	13-1585	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	92.81	17.31
			<i>For 24" Radius, Add</i>	5.88	
			<i>For 36" Radius, Add</i>	9.28	
			<i>For 48" Radius, Add</i>	12.68	
26 05 33	13-1586	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	111.22	20.78
			<i>For 24" Radius, Add</i>	7.04	
			<i>For 36" Radius, Add</i>	11.12	
			<i>For 48" Radius, Add</i>	15.20	
26 05 33	13-1587	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	131.74	24.23
			<i>For 24" Radius, Add</i>	8.37	
			<i>For 36" Radius, Add</i>	13.17	
			<i>For 48" Radius, Add</i>	17.98	
26 05 33	13-1588	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	153.62	29.43
			<i>For 24" Radius, Add</i>	9.68	
			<i>For 36" Radius, Add</i>	15.36	
			<i>For 48" Radius, Add</i>	21.04	
26 05 33	13-1589	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	175.48	34.63
			<i>For 24" Radius, Add</i>	11.00	
			<i>For 36" Radius, Add</i>	17.55	
			<i>For 48" Radius, Add</i>	24.10	
26 05 33	13-1590	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	219.37	43.28
			<i>For 24" Radius, Add</i>	13.75	
			<i>For 36" Radius, Add</i>	21.94	
			<i>For 48" Radius, Add</i>	30.13	
26 05 33	13-1591	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....	268.80	51.94
			<i>For 24" Radius, Add</i>	16.91	
			<i>For 36" Radius, Add</i>	26.88	
			<i>For 48" Radius, Add</i>	36.85	
26 05 33	13-1592		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1565)</small>		
26 05 33	13-1593	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....	48.26	6.93
			<i>For 24" Radius, Add</i>	3.19	
			<i>For 36" Radius, Add</i>	4.83	
			<i>For 48" Radius, Add</i>	6.47	
26 05 33	13-1594	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....	53.70	7.62
			<i>For 24" Radius, Add</i>	3.55	
			<i>For 36" Radius, Add</i>	5.37	
			<i>For 48" Radius, Add</i>	7.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1595 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	56.64 3.71 5.66 7.62	8.65
26 05 33 13-1596 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	63.04 4.04 6.30 8.57	11.08
26 05 33 13-1597 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	70.32 4.41 7.03 9.66	13.85
26 05 33 13-1598 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	83.89 5.21 8.39 11.57	17.31
26 05 33 13-1599 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	100.55 6.24 10.06 13.87	20.78
26 05 33 13-1600 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	118.93 7.40 11.89 16.38	24.23
26 05 33 13-1601 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	139.21 8.60 13.92 19.24	29.43
26 05 33 13-1602 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	159.48 9.80 15.95 22.10	34.63
26 05 33 13-1603 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	199.36 12.25 19.94 27.63	43.28
26 05 33 13-1604 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	243.79 15.04 24.38 33.72	51.94
<b>26 05 33 13-1605 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1565)</small>		
26 05 33 13-1606 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	44.64 2.96 4.46 5.97	6.23
26 05 33 13-1607 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	49.67 3.30 4.97 6.64	6.86
26 05 33 13-1608 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	52.35 3.44 5.24 7.03	7.79
26 05 33 13-1609 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	58.13 3.74 5.81 7.89	9.97
26 05 33 13-1610 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	64.68 4.07 6.47 8.86	12.47
26 05 33 13-1611 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	77.10 4.81 7.71 10.61	15.58
26 05 33 13-1612 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	92.40 5.76 9.24 12.72	18.70
26 05 33 13-1613 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	109.32 6.84 10.93 15.03	21.81

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1614 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows .....	127.84	26.49
For 24" Radius, Add	7.93	
For 36" Radius, Add	12.78	
For 48" Radius, Add	17.64	
26 05 33 13-1615 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows .....	146.38	31.16
For 24" Radius, Add	9.03	
For 36" Radius, Add	14.64	
For 48" Radius, Add	20.25	
26 05 33 13-1616 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows .....	182.98	38.96
For 24" Radius, Add	11.29	
For 36" Radius, Add	18.30	
For 48" Radius, Add	25.31	
26 05 33 13-1617 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows .....	223.85	46.75
For 24" Radius, Add	13.87	
For 36" Radius, Add	22.39	
For 48" Radius, Add	30.90	
<b>26 05 33 13-1618 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1565)</small>		
26 05 33 13-1619 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	42.75	6.23
For 24" Radius, Add	2.82	
For 36" Radius, Add	4.28	
For 48" Radius, Add	5.73	
26 05 33 13-1620 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	47.56	6.86
For 24" Radius, Add	3.14	
For 36" Radius, Add	4.76	
For 48" Radius, Add	6.37	
26 05 33 13-1621 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	50.21	7.79
For 24" Radius, Add	3.28	
For 36" Radius, Add	5.02	
For 48" Radius, Add	6.76	
26 05 33 13-1622 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	55.97	9.97
For 24" Radius, Add	3.57	
For 36" Radius, Add	5.60	
For 48" Radius, Add	7.62	
26 05 33 13-1623 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	62.50	12.47
For 24" Radius, Add	3.91	
For 36" Radius, Add	6.25	
For 48" Radius, Add	8.59	
26 05 33 13-1624 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	74.62	15.58
For 24" Radius, Add	4.62	
For 36" Radius, Add	7.46	
For 48" Radius, Add	10.30	
26 05 33 13-1625 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	89.43	18.70
For 24" Radius, Add	5.54	
For 36" Radius, Add	8.94	
For 48" Radius, Add	12.35	
26 05 33 13-1626 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	105.76	21.81
For 24" Radius, Add	6.57	
For 36" Radius, Add	10.58	
For 48" Radius, Add	14.58	
26 05 33 13-1627 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	123.84	26.49
For 24" Radius, Add	7.63	
For 36" Radius, Add	12.38	
For 48" Radius, Add	17.14	
26 05 33 13-1628 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	141.93	31.16
For 24" Radius, Add	8.70	
For 36" Radius, Add	14.19	
For 48" Radius, Add	19.69	
26 05 33 13-1629 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	177.42	38.96
For 24" Radius, Add	10.87	
For 36" Radius, Add	17.74	
For 48" Radius, Add	24.61	
26 05 33 13-1630 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows .....	216.91	46.75
For 24" Radius, Add	13.35	
For 36" Radius, Add	21.69	
For 48" Radius, Add	30.04	
<b>26 05 33 13-1631 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-1565)</small>		





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 33	13-1632	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	27.74	4.85
	26 05 33	13-1633	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	31.26	5.54
	26 05 33	13-1634	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	33.17	6.23
	26 05 33	13-1635	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	35.05	6.93
	26 05 33	13-1636	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	39.74	8.65
	26 05 33	13-1637	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	47.52	10.38
	26 05 33	13-1638	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	60.56	13.85
	26 05 33	13-1639	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	74.40	17.31
	26 05 33	13-1640	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	91.28	22.51
	26 05 33	13-1641	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	108.16	27.70
	26 05 33	13-1642	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	135.19	34.63
	26 05 33	13-1643	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....	168.98	43.28
26 05 33		13-1644		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-1644)</small>		
	26 05 33	13-1645	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	20.94	4.85
	26 05 33	13-1646	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	23.65	5.54
	26 05 33	13-1647	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	25.48	6.23
	26 05 33	13-1648	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	27.31	6.93
	26 05 33	13-1649	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	31.75	8.65
	26 05 33	13-1650	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	36.14	10.38
	26 05 33	13-1651	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	46.83	13.85
	26 05 33	13-1652	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	57.92	17.31
	26 05 33	13-1653	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	72.74	22.51
	26 05 33	13-1654	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	87.56	27.70
	26 05 33	13-1655	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	109.46	34.63
	26 05 33	13-1656	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....	136.82	43.28
26 05 33		13-1657		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings</b> <small>(26 05 33 13-1657)</small>		
	26 05 33	13-1658	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	23.08	3.99
	26 05 33	13-1659	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	26.03	5.54
	26 05 33	13-1660	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	27.90	6.23
	26 05 33	13-1661	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	29.70	6.93
	26 05 33	13-1662	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	34.31	8.65
	26 05 33	13-1663	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	41.06	10.38
	26 05 33	13-1664	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	52.73	13.85
	26 05 33	13-1665	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	64.99	17.31
	26 05 33	13-1666	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....	80.69	22.51
	26 05 33	13-1667	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	96.40	27.70
	26 05 33	13-1668	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	120.47	34.63
	26 05 33	13-1669	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	150.62	43.28
26 05 33		13-1670		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints</b> <small>(26 05 33 13-1670)</small>		
	26 05 33	13-1671	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	55.36	17.31
	26 05 33	13-1672	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	65.34	20.78
	26 05 33	13-1673	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	74.15	24.23
	26 05 33	13-1674	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	82.89	27.70
	26 05 33	13-1675	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	91.86	31.16
	26 05 33	13-1676	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	103.16	34.63
	26 05 33	13-1677	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	119.47	39.82
	26 05 33	13-1678	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	136.44	45.01
	26 05 33	13-1679	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	156.75	51.94
	26 05 33	13-1680	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	181.38	60.60
	26 05 33	13-1681	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	210.49	69.26
	26 05 33	13-1682	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....	241.46	77.91
26 05 33		13-1683		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints</b> <small>(26 05 33 13-1683)</small>		
	26 05 33	13-1684	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	60.26	17.31
	26 05 33	13-1685	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	70.84	20.78
	26 05 33	13-1686	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....	79.67	24.23
	26 05 33	13-1687	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	88.48	27.70
	26 05 33	13-1688	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	97.49	31.16
	26 05 33	13-1689	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....	109.59	34.63
	26 05 33	13-1690	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	127.19	39.82
	26 05 33	13-1691	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....	145.71	45.01
	26 05 33	13-1692	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	167.18	51.94
	26 05 33	13-1693	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....	192.97	60.60
	26 05 33	13-1694	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....	225.01	69.26
	26 05 33	13-1695	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	259.62	77.91
26 05 33		13-1696		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters</b> <small>(26 05 33 13-1696)</small>		

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1697 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	52.50	4.85
26 05 33 13-1698 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	58.71	5.54
26 05 33 13-1699 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	61.82	6.23
26 05 33 13-1700 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	64.99	6.93
26 05 33 13-1701 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	70.06	8.65
26 05 33 13-1702 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	79.00	10.38
26 05 33 13-1703 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	98.27	13.85
26 05 33 13-1704 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	119.60	17.31
26 05 33 13-1705 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	142.14	22.51
26 05 33 13-1706 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	164.67	27.70
26 05 33 13-1707 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	205.86	34.63
26 05 33 13-1708 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....	256.42	43.28
<b>26 05 33 13-1709 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints</b> <small>(26 05 33 13-1565)</small>		
26 05 33 13-1710 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	68.79	17.31
26 05 33 13-1711 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	80.29	20.78
26 05 33 13-1712 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	95.62	24.23
26 05 33 13-1713 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	116.48	27.70
26 05 33 13-1714 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	142.64	31.16
26 05 33 13-1715 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	182.50	34.63
26 05 33 13-1716 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	250.51	39.82
26 05 33 13-1717 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	299.73	45.01
26 05 33 13-1718 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	360.07	51.94
26 05 33 13-1719 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	424.74	60.60
26 05 33 13-1720 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	497.70	69.26
26 05 33 13-1721 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....	745.78	77.91
<b>26 05 33 13-1722 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover</b> <small>(26 05 33 13-1565)</small>		
26 05 33 13-1723 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	57.21	13.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.39	
26 05 33 13-1724 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	65.89	15.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.69	
26 05 33 13-1725 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	84.34	17.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.98	
26 05 33 13-1726 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	102.66	20.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.58	
26 05 33 13-1727 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	130.13	25.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.48	
26 05 33 13-1728 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	174.52	31.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.37	
26 05 33 13-1729 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	272.05	36.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.27	
26 05 33 13-1730 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	345.42	41.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.16	
26 05 33 13-1731 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover .....	414.05	48.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.36	
26 05 33 13-1732 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	482.70	55.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.55	
26 05 33 13-1733 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	566.43	62.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.75	
26 05 33 13-1734 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....	641.12	69.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.94	
<b>26 05 33 13-1735 Explosion Proof Conduit Fittings</b> <small>(26 05 33 13-0058)</small>		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
<b>26 05 33 13-1736 Explosion Proof Malleable Iron Conduit Unions</b> <small>(26 05 33 13-1735)</small>		
26 05 33 13-1737 EA 1/2" Explosion Proof Malleable Iron Conduit Union .....	36.05	7.74
26 05 33 13-1738 EA 3/4" Explosion Proof Malleable Iron Conduit Union .....	44.38	8.56
26 05 33 13-1739 EA 1" Explosion Proof Malleable Iron Conduit Union .....	70.24	11.41
26 05 33 13-1740 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union .....	92.80	12.63
26 05 33 13-1741 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union .....	116.74	15.49
26 05 33 13-1742 EA 2" Explosion Proof Malleable Iron Conduit Union .....	145.33	17.93
26 05 33 13-1743 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union .....	221.08	25.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1744 EA 3" Explosion Proof Malleable Iron Conduit Union.....	280.82	30.52
26 05 33 13-1745 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union .....	470.47	36.63
26 05 33 13-1746 EA 4" Explosion Proof Malleable Iron Conduit Union.....	499.59	46.80
<b>26 05 33 13-1747 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1735)</b>		
26 05 33 13-1748 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body .....	127.46	24.45
26 05 33 13-1749 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body .....	143.69	27.71
26 05 33 13-1750 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body .....	168.14	30.56
26 05 33 13-1751 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body.....	144.00	30.56
26 05 33 13-1752 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body.....	171.58	36.68
26 05 33 13-1753 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body.....	202.97	41.97
<b>26 05 33 13-1754 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1735)</b>		
Note: Includes sealing gasket and lock nut.		
26 05 33 13-1755 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	105.43	20.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.28	
26 05 33 13-1756 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	107.85	22.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 05 33 13-1757 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	117.73	24.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.64	
26 05 33 13-1758 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	151.23	30.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.92	
26 05 33 13-1759 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	192.89	35.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.89	
26 05 33 13-1760 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	247.61	40.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.56	
26 05 33 13-1761 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	352.74	61.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.78	
26 05 33 13-1762 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	445.81	76.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.38	
26 05 33 13-1763 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	628.33	84.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.18	
26 05 33 13-1764 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....	809.85	91.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.67	
<b>26 05 33 13-1765 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1735)</b>		
26 05 33 13-1766 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	280.23	9.37
26 05 33 13-1767 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling .....	366.56	10.59
<b>26 05 33 13-1768 Flexible Conduit (26 05 33 13-0057)</b>		
<b>26 05 33 13-1769 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-1769)</b>		
Note: Steel inner core with PVC cover.		
<b>26 05 33 13-1770 Flexible Liquid Tight Metallic Conduit (26 05 33 13-1769)</b>		
26 05 33 13-1771 LF 3/8" Flexible Liquid Tight Metallic Conduit .....	3.80	1.11
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.42	
For Work In Restricted Working Space, Add	0.84	
26 05 33 13-1772 LF 1/2" Flexible Liquid Tight Metallic Conduit .....	3.95	1.11
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.42	
For Work In Restricted Working Space, Add	0.84	
26 05 33 13-1773 LF 3/4" Flexible Liquid Tight Metallic Conduit .....	5.30	1.48
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Work In Restricted Working Space, Add	1.12	
26 05 33 13-1774 LF 1" Flexible Liquid Tight Metallic Conduit .....	6.10	1.48
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Work In Restricted Working Space, Add	1.12	
26 05 33 13-1775 LF 1-1/4" Flexible Liquid Tight Metallic Conduit .....	7.90	1.85
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.70	
For Work In Restricted Working Space, Add	1.40	
26 05 33 13-1776 LF 1-1/2" Flexible Liquid Tight Metallic Conduit .....	10.13	2.23
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.84	
For Work In Restricted Working Space, Add	1.67	
26 05 33 13-1777 LF 2" Flexible Liquid Tight Metallic Conduit .....	13.34	2.98
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.12	
For Work In Restricted Working Space, Add	2.23	
26 05 33 13-1778 LF 2-1/2" Flexible Liquid Tight Metallic Conduit .....	18.11	3.35
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.26	
For Work In Restricted Working Space, Add	2.51	
26 05 33 13-1779 LF 3" Flexible Liquid Tight Metallic Conduit .....	26.61	4.09
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.53	
For Work In Restricted Working Space, Add	3.07	
26 05 33 13-1780 LF 4" Flexible Liquid Tight Metallic Conduit .....	36.40	5.20
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.95	
For Work In Restricted Working Space, Add	3.90	
<b>26 05 33 13-1781 Straight Liquid Tight Connector (26 05 33 13-1769)</b>		

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1782 EA 3/8" Straight Liquid Tight Connector .....	10.33	2.98
For Work In Restricted Working Space, Add	2.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 33 13-1783 EA 1/2" Straight Liquid Tight Connector .....	10.33	2.98
For Work In Restricted Working Space, Add	2.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 33 13-1784 EA 3/4" Straight Liquid Tight Connector .....	12.51	3.35
For Work In Restricted Working Space, Add	2.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 33 13-1785 EA 1" Straight Liquid Tight Connector .....	16.68	3.72
For Work In Restricted Working Space, Add	2.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
26 05 33 13-1786 EA 1-1/4" Straight Liquid Tight Connector .....	21.40	4.09
For Work In Restricted Working Space, Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.07	
26 05 33 13-1787 EA 1-1/2" Straight Liquid Tight Connector .....	27.09	4.46
For Work In Restricted Working Space, Add	3.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-1788 EA 2" Straight Liquid Tight Connector .....	37.30	5.20
For Work In Restricted Working Space, Add	3.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90	
26 05 33 13-1789 EA 2-1/2" Straight Liquid Tight Connector .....	126.99	6.69
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1790 EA 3" Straight Liquid Tight Connector .....	163.68	7.06
For Work In Restricted Working Space, Add	5.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1791 EA 4" Straight Liquid Tight Connector .....	200.40	10.41
For Work In Restricted Working Space, Add	7.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
<b>26 05 33 13-1792 90 Degree Angle Liquid Tight Connector</b> (26 05 33 13-1789)		
26 05 33 13-1793 EA 3/8" 90 Degree Angle Liquid Tight Connector .....	15.05	4.09
For Work In Restricted Working Space, Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.07	
26 05 33 13-1794 EA 1/2" 90 Degree Angle Liquid Tight Connector .....	15.67	4.09
For Work In Restricted Working Space, Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.07	
26 05 33 13-1795 EA 3/4" 90 Degree Angle Liquid Tight Connector .....	17.71	4.46
For Work In Restricted Working Space, Add	3.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-1796 EA 1" 90 Degree Angle Liquid Tight Connector .....	24.93	5.20
For Work In Restricted Working Space, Add	3.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90	
26 05 33 13-1797 EA 1-1/4" 90 Degree Angle Liquid Tight Connector .....	31.37	5.57
For Work In Restricted Working Space, Add	4.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-1798 EA 1-1/2" 90 Degree Angle Liquid Tight Connector .....	38.03	5.94
For Work In Restricted Working Space, Add	4.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-1799 EA 2" 90 Degree Angle Liquid Tight Connector .....	50.26	6.69
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1800 EA 2-1/2" 90 Degree Angle Liquid Tight Connector .....	177.33	7.06
For Work In Restricted Working Space, Add	5.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1801 EA 3" 90 Degree Angle Liquid Tight Connector .....	209.53	8.18
For Work In Restricted Working Space, Add	6.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-1802 EA 4" 90 Degree Angle Liquid Tight Connector .....	289.92	13.01
For Work In Restricted Working Space, Add	9.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.76	
<b>26 05 33 13-1803 45 Degree Angle Connector</b> (26 05 33 13-1789)		
26 05 33 13-1804 EA 3/8" 45 Degree Angle Liquid Tight Connector .....	14.84	4.09
For Work In Restricted Working Space, Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.07	
26 05 33 13-1805 EA 1/2" 45 Degree Angle Liquid Tight Connector .....	14.99	4.09
For Work In Restricted Working Space, Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.07	
26 05 33 13-1806 EA 3/4" 45 Degree Angle Liquid Tight Connector .....	17.71	4.46
For Work In Restricted Working Space, Add	3.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-1807 EA 1" 45 Degree Angle Liquid Tight Connector .....	26.63	5.20
For Work In Restricted Working Space, Add	3.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90	
26 05 33 13-1808 EA 1-1/4" 45 Degree Angle Liquid Tight Connector .....	30.27	5.57
For Work In Restricted Working Space, Add	4.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-1809 EA 1-1/2" 45 Degree Angle Liquid Tight Connector .....	33.91	5.94
For Work In Restricted Working Space, Add	4.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-1810 Flexible Metallic Conduit And Connectors</b> <small>(26 05 33 13-1768)</small>		
<b>26 05 33 13-1811 Flexible Steel Conduit</b> <small>(26 05 33 13-1810)</small>		
26 05 33 13-1812 LF 3/8" Flexible Metallic Conduit.....	3.45	1.22
For Flexible Aluminum Conduit, Add	0.08	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.45	
For Installation In Metal Stud Wall, Add	0.30	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.75	
For Work In Restricted Working Space, Add	0.90	
26 05 33 13-1813 LF 1/2" Flexible Metallic Conduit.....	3.57	1.22
For Flexible Aluminum Conduit, Add	0.08	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.46	
For Installation In Metal Stud Wall, Add	0.31	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.77	
For Work In Restricted Working Space, Add	0.92	
26 05 33 13-1814 LF 3/4" Flexible Metallic Conduit.....	4.00	1.62
For Flexible Aluminum Conduit, Add	0.11	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.50	
For Installation In Metal Stud Wall, Add	0.33	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.83	
For Work In Restricted Working Space, Add	0.99	
26 05 33 13-1815 LF 1" Flexible Metallic Conduit.....	4.85	1.62
For Flexible Aluminum Conduit, Add	0.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.53	
For Installation In Metal Stud Wall, Add	0.36	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.89	
For Work In Restricted Working Space, Add	1.07	
26 05 33 13-1816 LF 1-1/4" Flexible Metallic Conduit.....	5.46	2.03
For Flexible Aluminum Conduit, Add	0.28	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
For Installation In Metal Stud Wall, Add	0.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.94	
For Work In Restricted Working Space, Add	1.13	
26 05 33 13-1817 LF 1-1/2" Flexible Metallic Conduit.....	6.88	2.44
For Flexible Aluminum Conduit, Add	0.49	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.59	
For Installation In Metal Stud Wall, Add	0.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.98	
For Work In Restricted Working Space, Add	1.18	
26 05 33 13-1818 LF 2" Flexible Metallic Conduit.....	7.70	3.26
For Flexible Aluminum Conduit, Add	0.60	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.61	
For Installation In Metal Stud Wall, Add	0.41	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.02	
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-1819 LF 2-1/2" Flexible Steel Conduit.....	9.48	3.67
For Flexible Aluminum Conduit, Add	0.72	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Installation In Metal Stud Wall, Add	0.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.27	
For Work In Restricted Working Space, Add	1.53	
26 05 33 13-1820 LF 3" Flexible Metallic Conduit.....	13.73	4.48
For Flexible Aluminum Conduit, Add	1.26	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.92	
For Installation In Metal Stud Wall, Add	0.61	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.53	
For Work In Restricted Working Space, Add	1.83	
26 05 33 13-1821 LF 3-1/2" Flexible Metallic Conduit.....	16.74	4.88
For Flexible Aluminum Conduit, Add	1.59	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.07	
For Installation In Metal Stud Wall, Add	0.71	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.78	
For Work In Restricted Working Space, Add	2.14	
26 05 33 13-1822 LF 4" Flexible Metallic Conduit.....	19.23	5.70
For Flexible Aluminum Conduit, Add	1.83	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.22	
For Installation In Metal Stud Wall, Add	0.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.03	
For Work In Restricted Working Space, Add	2.44	
<b>26 05 33 13-1823 Plain Squeeze Type Straight Connector</b> <small>(26 05 33 13-1810)</small>		
26 05 33 13-1824 EA 3/8" Flexible Straight Connectors, Plain.....	5.75	3.26
For Work In Restricted Working Space, Add	1.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1825 EA 1/2" Flexible Straight Connectors, Plain.....	6.95	3.67
For Work In Restricted Working Space, Add	1.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.53	
26 05 33 13-1826 EA 3/4" Flexible Straight Connectors, Plain.....	8.06	4.48
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1827 EA 1" Flexible Straight Connectors, Plain.....	12.43	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1828	EA	1-1/4" Flexible Straight Connectors, Plain	17.21	5.70
			<i>For Work In Restricted Working Space, Add</i>	3.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 05 33	13-1829	EA	1-1/2" Flexible Straight Connectors, Plain	22.48	6.92
			<i>For Work In Restricted Working Space, Add</i>	3.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.81	
26 05 33	13-1830	EA	2" Flexible Straight Connectors, Plain	29.15	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.58	
26 05 33	13-1831	EA	2-1/2" Flexible Straight Connectors, Plain	45.08	8.55
			<i>For Work In Restricted Working Space, Add</i>	5.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.34	
26 05 33	13-1832	EA	3" Flexible Straight Connectors, Plain	58.17	9.36
			<i>For Work In Restricted Working Space, Add</i>	6.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 05 33	13-1833	EA	3-1/2" Flexible Straight Connectors, Plain	169.17	10.99
			<i>For Work In Restricted Working Space, Add</i>	6.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.87	
26 05 33	13-1834	EA	4" Flexible Straight Connectors, Plain	210.50	13.42
			<i>For Work In Restricted Working Space, Add</i>	7.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.63	
<b>26 05 33 13-1835 Insulated Throat Squeeze Type Straight Connector</b> <small>(26 05 33 13-1810)</small>					
26 05 33	13-1836	EA	1/2" Flexible Straight Connectors, Insulated	7.59	3.67
			<i>For Work In Restricted Working Space, Add</i>	1.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.53	
26 05 33	13-1837	EA	3/4" Flexible Straight Connectors, Insulated	8.90	4.48
			<i>For Work In Restricted Working Space, Add</i>	1.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.83	
26 05 33	13-1838	EA	1" Flexible Straight Connectors, Insulated	13.57	4.88
			<i>For Work In Restricted Working Space, Add</i>	2.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.44	
26 05 33	13-1839	EA	1-1/4" Flexible Straight Connectors, Insulated	19.31	5.70
			<i>For Work In Restricted Working Space, Add</i>	3.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 05 33	13-1840	EA	1-1/2" Flexible Straight Connectors, Insulated	26.21	6.10
			<i>For Work In Restricted Working Space, Add</i>	3.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.81	
26 05 33	13-1841	EA	2" Flexible Straight Connectors, Insulated	35.74	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.58	
26 05 33	13-1842	EA	2-1/2" Flexible Straight Connectors, Insulated	59.19	8.55
			<i>For Work In Restricted Working Space, Add</i>	5.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.34	
26 05 33	13-1843	EA	3" Flexible Straight Connectors, Insulated	74.80	9.36
			<i>For Work In Restricted Working Space, Add</i>	6.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 05 33	13-1844	EA	3-1/2" Flexible Straight Connectors, Insulated	194.80	10.99
			<i>For Work In Restricted Working Space, Add</i>	6.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.87	
26 05 33	13-1845	EA	4" Flexible Straight Connectors, Insulated	249.03	13.42
			<i>For Work In Restricted Working Space, Add</i>	7.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.63	
<b>26 05 33 13-1846 Plain Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-1810)</small>					
26 05 33	13-1847	EA	3/8" Flexible 90 Degree Connector, Plain	7.97	4.07
			<i>For Work In Restricted Working Space, Add</i>	1.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.83	
26 05 33	13-1848	EA	1/2" Flexible 90 Degree Connector, Plain	10.26	4.48
			<i>For Work In Restricted Working Space, Add</i>	2.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.14	
26 05 33	13-1849	EA	3/4" Flexible 90 Degree Connector, Plain	13.04	4.88
			<i>For Work In Restricted Working Space, Add</i>	2.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.44	
26 05 33	13-1850	EA	1" Flexible 90 Degree Connector, Plain	17.93	5.70
			<i>For Work In Restricted Working Space, Add</i>	3.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 05 33	13-1851	EA	1-1/4" Flexible 90 Degree Connector, Plain	26.93	6.10
			<i>For Work In Restricted Working Space, Add</i>	3.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.66	
26 05 33	13-1852	EA	1-1/2" Flexible 90 Degree Connector, Plain	40.98	7.12
			<i>For Work In Restricted Working Space, Add</i>	4.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.58	
26 05 33	13-1853	EA	2" Flexible 90 Degree Connector, Plain	49.10	8.75
			<i>For Work In Restricted Working Space, Add</i>	5.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.19	
26 05 33	13-1854	EA	2-1/2" Flexible 90 Degree Connector, Plain	103.27	9.36
			<i>For Work In Restricted Working Space, Add</i>	6.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 05 33	13-1855	EA	3" Flexible 90 Degree Connector, Plain	131.75	10.99
			<i>For Work In Restricted Working Space, Add</i>	6.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1856 EA 3-1/2" Flexible 90 Degree Connector, Plain .....	273.00	13.42
For Work In Restricted Working Space, Add	7.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 33 13-1857 EA 4" Flexible 90 Degree Connector, Plain .....	483.52	15.26
For Work In Restricted Working Space, Add	9.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
<b>26 05 33 13-1858 Insulated Throat Squeeze Type 90 Degree Connector</b> (26 05 33 13-1810)		
26 05 33 13-1859 EA 1/2" Flexible 90 Degree Connector, Insulated .....	11.15	4.48
For Work In Restricted Working Space, Add	2.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-1860 EA 3/4" Flexible 90 Degree Connector, Insulated .....	14.14	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1861 EA 1" Flexible 90 Degree Connector, Insulated .....	17.93	5.70
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1862 EA 1-1/4" Flexible 90 Degree Connector, Insulated .....	30.82	6.10
For Work In Restricted Working Space, Add	3.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 05 33 13-1863 EA 1-1/2" Flexible 90 Degree Connector, Insulated .....	48.05	7.12
For Work In Restricted Working Space, Add	4.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 05 33 13-1864 EA 2" Flexible 90 Degree Connector, Insulated .....	60.59	8.75
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-1865 EA 2-1/2" Flexible 90 Degree Connector, Insulated .....	139.18	9.36
For Work In Restricted Working Space, Add	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 05 33 13-1866 EA 3" Flexible 90 Degree Connector, Insulated .....	170.66	10.99
For Work In Restricted Working Space, Add	6.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1867 EA 3-1/2" Flexible 90 Degree Connector, Insulated .....	449.35	13.42
For Work In Restricted Working Space, Add	7.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 05 33 13-1868 EA 4" Flexible 90 Degree Connector, Insulated .....	668.22	15.26
For Work In Restricted Working Space, Add	9.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
<b>26 05 33 13-1869 Plain Squeeze Type 45 Degree Connector</b> (26 05 33 13-1810)		
26 05 33 13-1870 EA 3/8" Flexible 45 Degree Connector, Plain .....	8.69	4.07
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1871 EA 1/2" Flexible 45 Degree Connector, Plain .....	11.41	4.48
For Work In Restricted Working Space, Add	2.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-1872 EA 3/4" Flexible 45 Degree Connector, Plain .....	14.32	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
<b>26 05 33 13-1873 Insulated Squeeze Type 45 Degree Connector</b> (26 05 33 13-1810)		
26 05 33 13-1874 EA 3/8" Flexible 45 Degree Connector, Insulated .....	9.18	4.88
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1875 EA 1/2" Flexible 45 Degree Connector, Insulated .....	12.22	4.48
For Work In Restricted Working Space, Add	2.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-1876 EA 3/4" Flexible 45 Degree Connector, Insulated .....	15.47	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
<b>26 05 33 13-1877 Plain Screw-In Connector</b> (26 05 33 13-1810)		
26 05 33 13-1878 EA 3/8" Flexible Steel Screw-in Connector, Plain .....	5.01	3.26
For Work In Restricted Working Space, Add	1.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1879 EA 1/2" Flexible Steel Screw-in Connector, Plain .....	5.45	3.67
For Work In Restricted Working Space, Add	1.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.53	
26 05 33 13-1880 EA 3/4" Flexible Steel Screw-in Connector, Plain .....	6.83	4.48
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1881 EA 1" Flexible Steel Screw-in Connector, Plain .....	9.60	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1882 EA 1-1/4" Flexible Steel Screw-in Connector, Plain .....	13.61	5.70
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1883 EA 1-1/2" Flexible Steel Screw-in Connector, Plain .....	16.70	6.10
For Work In Restricted Working Space, Add	3.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.81	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1884 EA 2" Flexible Steel Screw-in Connector, Plain .....	23.55	6.92
For Work In Restricted Working Space, Add	4.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
<b>26 05 33 13-1885 Insulated Screw-In Connector</b> (26 05 33 13-1810)		
26 05 33 13-1886 EA 3/8" Flexible Steel Screw-in Connector, Insulated .....	5.23	3.26
For Work In Restricted Working Space, Add	1.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1887 EA 1/2" Flexible Steel Screw-in Connector, Insulated .....	5.62	3.67
For Work In Restricted Working Space, Add	1.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.53	
26 05 33 13-1888 EA 3/4" Flexible Steel Screw-in Connector, Insulated .....	7.26	4.48
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1889 EA 1" Flexible Steel Screw-in Connector, Insulated .....	10.26	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1890 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated .....	14.55	5.70
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1891 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated .....	17.84	6.10
For Work In Restricted Working Space, Add	3.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.81	
26 05 33 13-1892 EA 2" Flexible Steel Screw-in Connector, Insulated .....	24.55	6.92
For Work In Restricted Working Space, Add	4.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
<b>26 05 33 13-1893 Screw-In Coupling</b> (26 05 33 13-1810)		
26 05 33 13-1894 EA 1/2" Flexible Steel Screw-in Coupling .....	5.86	3.67
For Work In Restricted Working Space, Add	1.53	
26 05 33 13-1895 EA 3/4" Flexible Steel Screw-in Coupling .....	7.52	4.48
For Work In Restricted Working Space, Add	1.83	
<b>26 05 33 13-1896 Flexible To Electrical Metallic Tubing (EMT) Coupling</b> (26 05 33 13-1810)		
26 05 33 13-1897 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	7.22	3.26
For Work In Restricted Working Space, Add	1.37	
26 05 33 13-1898 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	9.49	3.67
For Work In Restricted Working Space, Add	1.53	
26 05 33 13-1899 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	12.35	4.48
For Work In Restricted Working Space, Add	1.83	
<b>26 05 33 13-1900 Die Cast Squeeze Type Straight Connector</b> (26 05 33 13-1810)		
26 05 33 13-1901 EA 3/8" Flexible Straight Connector, Die Cast .....	5.14	3.26
For Work In Restricted Working Space, Add	1.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1902 EA 1/2" Flexible Straight Connector, Die Cast .....	5.79	3.67
For Work In Restricted Working Space, Add	1.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.53	
26 05 33 13-1903 EA 3/4" Flexible Straight Connector, Die Cast .....	7.12	4.48
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1904 EA 1" Flexible Straight Connector, Die Cast .....	10.41	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1905 EA 1-1/4" Flexible Straight Connector, Die Cast .....	13.81	5.70
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1906 EA 1-1/2" Flexible Straight Connector, Die Cast .....	18.41	6.10
For Work In Restricted Working Space, Add	3.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.81	
26 05 33 13-1907 EA 2" Flexible Straight Connector, Die Cast .....	23.46	6.92
For Work In Restricted Working Space, Add	4.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
<b>26 05 33 13-1908 Die Cast Squeeze Type 90 Degree Connector</b> (26 05 33 13-1810)		
26 05 33 13-1909 EA 3/8" Flexible 90 Degree Connector, Die Cast .....	6.82	4.07
For Work In Restricted Working Space, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1910 EA 1/2" Flexible 90 Degree Connector, Die Cast .....	8.33	4.48
For Work In Restricted Working Space, Add	2.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-1911 EA 3/4" Flexible 90 Degree Connector, Die Cast .....	9.95	4.88
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1912 EA 1" Flexible 90 Degree Connector, Die Cast .....	14.99	5.70
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1913 EA 1-1/4" Flexible 90 Degree Connector, Die Cast ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.61 3.66 3.66	6.10
26 05 33 13-1914 EA 1-1/2" Flexible 90 Degree Connector, Die Cast ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.94 4.58 4.58	7.12
26 05 33 13-1915 EA 2" Flexible 90 Degree Connector, Die Cast ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.71 5.19 5.19	8.75
<b>26 05 33 13-1916 Flexible Liquid Tight Non-Metallic Conduit And Connectors</b> (26 05 33 13-1768)		
<b>26 05 33 13-1917 Flexible Liquid Tight Non-Metallic Conduit</b> (26 05 33 13-1916)		
26 05 33 13-1918 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	3.55 0.84	1.11
26 05 33 13-1919 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	3.61 0.84	1.11
26 05 33 13-1920 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	4.86 1.12	1.48
26 05 33 13-1921 LF 1" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	6.02 1.12	1.48
26 05 33 13-1922 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	7.64 1.40	1.85
26 05 33 13-1923 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	9.73 1.67	2.23
26 05 33 13-1924 LF 2" Flexible Liquid Tight Non-Metallic Conduit ..... <i>For Work In Restricted Working Space, Add</i>	12.52 2.23	2.98
<b>26 05 33 13-1925 Liquid Tight Non-Metallic Straight Connector</b> (26 05 33 13-1916)		
26 05 33 13-1926 EA 3/8" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.24 2.23 2.23	2.98
26 05 33 13-1927 EA 1/2" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.24 2.23 2.23	2.98
26 05 33 13-1928 EA 3/4" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.51 2.51 2.51	3.35
26 05 33 13-1929 EA 1" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52 2.79 2.79	3.72
26 05 33 13-1930 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.39 3.07 3.07	4.09
26 05 33 13-1931 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.70 3.35 3.35	4.46
26 05 33 13-1932 EA 2" Liquid Tight Non-Metallic Straight Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.53 3.90 3.90	5.20
<b>26 05 33 13-1933 Liquid Tight Non-Metallic 90 Degree Angle Connector</b> (26 05 33 13-1916)		
26 05 33 13-1934 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.78 3.07 3.07	4.09
26 05 33 13-1935 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.78 3.07 3.07	4.09
26 05 33 13-1936 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.16 3.35 3.35	4.46
26 05 33 13-1937 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.66 3.90 3.90	5.20
26 05 33 13-1938 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.52 4.18 4.18	5.57
26 05 33 13-1939 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.85 4.46 4.46	5.94
26 05 33 13-1940 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.21 5.02 5.02	6.69
<b>26 05 33 13-1941 Liquid Tight Non-Metallic 45 Degree Angle Connector</b> (26 05 33 13-1916)		
26 05 33 13-1942 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.78 3.07 3.07	4.09



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1943 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....14.78		4.09
<i>For Work In Restricted Working Space, Add</i>	3.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.07	
26 05 33 13-1944 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....18.16		4.46
<i>For Work In Restricted Working Space, Add</i>	3.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.35	
26 05 33 13-1945 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector .....25.66		5.20
<i>For Work In Restricted Working Space, Add</i>	3.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 05 33 13-1946 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....26.52		5.57
<i>For Work In Restricted Working Space, Add</i>	4.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-1947 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....41.85		5.94
<i>For Work In Restricted Working Space, Add</i>	4.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-1948 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....56.21		6.69
<i>For Work In Restricted Working Space, Add</i>	5.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
<b>26 05 33 13-1949 Blue ENT Electrical Non-Metallic Tubing</b> (26 05 33 13-1768)		
Note: Carlton - FLEX-PLUS.		
<b>26 05 33 13-1950 Blue ENT Electrical Non-Metallic Tubing</b> (26 05 33 13-1949)		
26 05 33 13-1951 LF 1/2" Blue ENT Electrical Non-Metallic Tubing .....3.32		1.22
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 33 13-1952 LF 3/4" Blue ENT Electrical Non-Metallic Tubing .....4.43		1.62
<i>For Work In Restricted Working Space, Add</i>	1.22	
26 05 33 13-1953 LF 1" Blue ENT Electrical Non-Metallic Tubing .....4.66		1.62
<i>For Work In Restricted Working Space, Add</i>	1.22	
<b>26 05 33 13-1954 Terminal Adapter</b> (26 05 33 13-1949)		
26 05 33 13-1955 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....8.56		3.26
<i>For Work In Restricted Working Space, Add</i>	2.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.44	
26 05 33 13-1956 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....9.95		3.67
<i>For Work In Restricted Working Space, Add</i>	2.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.75	
26 05 33 13-1957 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....11.19		4.07
<i>For Work In Restricted Working Space, Add</i>	3.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
<b>26 05 33 13-1958 Coupling</b> (26 05 33 13-1949)		
26 05 33 13-1959 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....8.50		3.26
<i>For Work In Restricted Working Space, Add</i>	2.44	
26 05 33 13-1960 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....9.65		3.67
<i>For Work In Restricted Working Space, Add</i>	2.75	
26 05 33 13-1961 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....10.91		4.07
<i>For Work In Restricted Working Space, Add</i>	3.05	
<b>26 05 33 13-1962 Conduit Installed Below Grade</b> (26 05 33 13-0057)		
Note: By direct burial In trench or in concrete slabs or duct banks. Includes warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
<b>26 05 33 13-1963 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial</b> (26 05 33 13-1962)		
<b>26 05 33 13-1964 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial</b> (26 05 33 13-1963)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1965 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....2.98		
<i>For Schedule 60, Add</i>	0.18	
<i>For Schedule 80, Add</i>	0.34	
26 05 33 13-1966 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....3.26		
<i>For Schedule 60, Add</i>	0.21	
<i>For Schedule 80, Add</i>	0.38	
26 05 33 13-1967 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....3.58		
<i>For Schedule 60, Add</i>	0.25	
<i>For Schedule 80, Add</i>	0.44	
26 05 33 13-1968 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....3.91		
<i>For Schedule 60, Add</i>	0.29	
<i>For Schedule 80, Add</i>	0.50	
26 05 33 13-1969 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....4.22		
<i>For Schedule 60, Add</i>	0.32	
<i>For Schedule 80, Add</i>	0.56	
26 05 33 13-1970 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....4.62		
<i>For Schedule 60, Add</i>	0.38	
<i>For Schedule 80, Add</i>	0.64	
26 05 33 13-1971 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....5.25		
<i>For Schedule 60, Add</i>	0.49	
<i>For Schedule 80, Add</i>	0.81	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1972 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....	5.68	
<i>For Schedule 60, Add</i>	0.55	
<i>For Schedule 80, Add</i>	0.91	
26 05 33 13-1973 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....	6.27	
<i>For Schedule 60, Add</i>	0.66	
<i>For Schedule 80, Add</i>	1.06	
26 05 33 13-1974 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....	6.66	
<i>For Schedule 60, Add</i>	0.71	
<i>For Schedule 80, Add</i>	1.14	
26 05 33 13-1975 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....	7.78	
<i>For Schedule 60, Add</i>	0.95	
<i>For Schedule 80, Add</i>	1.48	
26 05 33 13-1976 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....	8.89	
<i>For Schedule 60, Add</i>	1.18	
<i>For Schedule 80, Add</i>	1.81	
 <b>26 05 33 13-1977 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial</b> <small>(26 05 33 13-1963)</small>		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1978 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	22.51	
<i>For Schedule 60, Add</i>	1.30	
<i>For Schedule 80, Add</i>	2.47	
26 05 33 13-1979 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	27.01	
<i>For Schedule 60, Add</i>	1.56	
<i>For Schedule 80, Add</i>	2.96	
26 05 33 13-1980 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	31.93	
<i>For Schedule 60, Add</i>	1.92	
<i>For Schedule 80, Add</i>	3.60	
26 05 33 13-1981 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	36.98	
<i>For Schedule 60, Add</i>	2.32	
<i>For Schedule 80, Add</i>	4.29	
26 05 33 13-1982 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	42.15	
<i>For Schedule 60, Add</i>	2.75	
<i>For Schedule 80, Add</i>	5.01	
26 05 33 13-1983 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	47.69	
<i>For Schedule 60, Add</i>	3.27	
<i>For Schedule 80, Add</i>	5.87	
26 05 33 13-1984 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	55.43	
<i>For Schedule 60, Add</i>	4.34	
<i>For Schedule 80, Add</i>	7.50	
26 05 33 13-1985 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	64.72	
<i>For Schedule 60, Add</i>	5.79	
<i>For Schedule 80, Add</i>	9.67	
26 05 33 13-1986 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	78.38	
<i>For Schedule 60, Add</i>	7.48	
<i>For Schedule 80, Add</i>	12.28	
26 05 33 13-1987 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	92.14	
<i>For Schedule 60, Add</i>	9.18	
<i>For Schedule 80, Add</i>	14.93	
26 05 33 13-1988 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	118.21	
<i>For Schedule 60, Add</i>	13.97	
<i>For Schedule 80, Add</i>	21.90	
26 05 33 13-1989 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	137.94	
<i>For Schedule 60, Add</i>	17.17	
<i>For Schedule 80, Add</i>	26.64	
 <b>26 05 33 13-1990 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial</b> <small>(26 05 33 13-1963)</small>		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1991 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	22.51	
<i>For Schedule 60, Add</i>	1.30	
<i>For Schedule 80, Add</i>	2.47	
26 05 33 13-1992 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	26.95	
<i>For Schedule 60, Add</i>	1.54	
<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-1993 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	31.84	
<i>For Schedule 60, Add</i>	1.90	
<i>For Schedule 80, Add</i>	3.57	
26 05 33 13-1994 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	36.73	
<i>For Schedule 60, Add</i>	2.26	
<i>For Schedule 80, Add</i>	4.20	
26 05 33 13-1995 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	41.58	
<i>For Schedule 60, Add</i>	2.60	
<i>For Schedule 80, Add</i>	4.81	
26 05 33 13-1996 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	47.39	
<i>For Schedule 60, Add</i>	3.19	
<i>For Schedule 80, Add</i>	5.77	
26 05 33 13-1997 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	54.86	
<i>For Schedule 60, Add</i>	4.19	
<i>For Schedule 80, Add</i>	7.30	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1998 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	64.00	
For Schedule 60, Add	5.61	
For Schedule 80, Add	9.42	
26 05 33 13-1999 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	76.36	
For Schedule 60, Add	6.97	
For Schedule 80, Add	11.58	
26 05 33 13-2000 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	90.40	
For Schedule 60, Add	8.75	
For Schedule 80, Add	14.33	
26 05 33 13-2001 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	115.96	
For Schedule 60, Add	13.41	
For Schedule 80, Add	21.11	
26 05 33 13-2002 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	131.23	
For Schedule 60, Add	15.50	
For Schedule 80, Add	24.29	
<b>26 05 33 13-2003 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial</b> <small>(26 05 33 13-1963)</small>		
26 05 33 13-2004 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-2005 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	14.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2006 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	16.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2007 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	18.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2008 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	20.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.72	
26 05 33 13-2009 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	22.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2010 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	26.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.01	
26 05 33 13-2011 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	29.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-2012 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	35.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-2013 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	39.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-2014 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	49.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-2015 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	56.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.98	
<b>26 05 33 13-2016 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial</b> <small>(26 05 33 13-1963)</small>		
26 05 33 13-2017 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	13.66	
26 05 33 13-2018 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	15.63	
26 05 33 13-2019 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	17.61	
26 05 33 13-2020 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	22.47	
26 05 33 13-2021 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	24.85	
26 05 33 13-2022 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	27.52	
26 05 33 13-2023 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	30.86	
26 05 33 13-2024 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	35.05	
26 05 33 13-2025 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	41.41	
26 05 33 13-2026 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	45.97	
26 05 33 13-2027 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	56.90	
26 05 33 13-2028 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	63.85	
<b>26 05 33 13-2029 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial</b> <small>(26 05 33 13-1963)</small>		
26 05 33 13-2030 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	12.45	
26 05 33 13-2031 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	14.39	
26 05 33 13-2032 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	16.24	
26 05 33 13-2033 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	18.18	
26 05 33 13-2034 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	20.03	
26 05 33 13-2035 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	22.18	
26 05 33 13-2036 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	25.93	
26 05 33 13-2037 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	29.45	
26 05 33 13-2038 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	34.71	
26 05 33 13-2039 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	39.25	
26 05 33 13-2040 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	48.31	
26 05 33 13-2041 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	54.58	
<b>26 05 33 13-2042 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-1962)</small>		
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2043			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-2042)</small> Note: Includes field bending for conduit up to 1".		
26 05 33	13-2044	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	10.70	1.95
				For >250 To 500, Deduct	-0.41	
				For >500 To 1,000, Deduct	-0.67	
				For >1,000, Deduct	-0.94	
26 05 33	13-2045	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	12.05	2.42
				For >250 To 500, Deduct	-0.46	
				For >500 To 1,000, Deduct	-0.76	
				For >1,000, Deduct	-1.07	
26 05 33	13-2046	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	14.89	2.70
				For >250 To 500, Deduct	-0.58	
				For >500 To 1,000, Deduct	-0.95	
				For >1,000, Deduct	-1.33	
26 05 33	13-2047	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	18.08	3.63
				For >250 To 500, Deduct	-0.72	
				For >500 To 1,000, Deduct	-1.17	
				For >1,000, Deduct	-1.62	
26 05 33	13-2048	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	21.30	4.09
				For >250 To 500, Deduct	-0.86	
				For >500 To 1,000, Deduct	-1.39	
				For >1,000, Deduct	-1.92	
26 05 33	13-2049	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	27.08	4.46
				For >250 To 500, Deduct	-1.10	
				For >500 To 1,000, Deduct	-1.78	
				For >1,000, Deduct	-2.45	
26 05 33	13-2050	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	39.50	6.69
				For >250 To 500, Deduct	-1.63	
				For >500 To 1,000, Deduct	-2.61	
				For >1,000, Deduct	-3.60	
26 05 33	13-2051	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	50.82	8.37
				For >250 To 500, Deduct	-2.08	
				For >500 To 1,000, Deduct	-3.35	
				For >1,000, Deduct	-4.62	
26 05 33	13-2052	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	62.65	8.83
				For >250 To 500, Deduct	-2.55	
				For >500 To 1,000, Deduct	-4.12	
				For >1,000, Deduct	-5.68	
26 05 33	13-2053	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	74.36	9.76
				For >250 To 500, Deduct	-3.02	
				For >500 To 1,000, Deduct	-4.88	
				For >1,000, Deduct	-6.74	
26 05 33	13-2054	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	117.67	13.48
				For >250 To 500, Deduct	-5.00	
				For >500 To 1,000, Deduct	-7.94	
				For >1,000, Deduct	-10.88	
26 05 33	13-2055	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	157.47	17.66
				For >250 To 500, Deduct	-6.76	
				For >500 To 1,000, Deduct	-10.70	
				For >1,000, Deduct	-14.63	
26 05 33	13-2056			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial</b> <small>(26 05 33 13-2042)</small>		
26 05 33	13-2057	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	11.48	2.79
26 05 33	13-2058	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.63	3.72
26 05 33	13-2059	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.32	4.65
26 05 33	13-2060	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	19.59	5.11
26 05 33	13-2061	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	23.23	6.04
26 05 33	13-2062	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	30.25	6.96
26 05 33	13-2063	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	57.09	8.37
26 05 33	13-2064	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	72.25	11.61
26 05 33	13-2065	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	89.83	13.48
26 05 33	13-2066	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	110.69	18.59
26 05 33	13-2067	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	290.68	25.55
26 05 33	13-2068	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	296.42	14.40
26 05 33	13-2069			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial</b> <small>(26 05 33 13-2042)</small> Note: 90, 45, or 30 degree.		
26 05 33	13-2070	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	43.93	11.61
26 05 33	13-2071	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	50.30	14.40
26 05 33	13-2072	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	59.96	17.66
26 05 33	13-2073	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	71.18	20.44
26 05 33	13-2074	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	83.70	23.23

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2075 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	103.06	25.55
26 05 33 13-2076 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	161.99	32.06
26 05 33 13-2077 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	243.76	43.67
26 05 33 13-2078 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	303.73	49.25
26 05 33 13-2079 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	345.19	64.11
26 05 33 13-2080 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	731.89	104.54
26 05 33 13-2081 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial .....	1,154.45	157.04
<b>26 05 33 13-2082 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2083 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial .....	108.76	17.66
26 05 33 13-2084 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial .....	122.13	20.44
26 05 33 13-2085 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial .....	139.47	23.23
26 05 33 13-2086 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial .....	167.42	25.55
26 05 33 13-2087 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial .....	234.84	32.06
<b>26 05 33 13-2088 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2089 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	121.95	17.66
26 05 33 13-2090 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	143.94	20.44
26 05 33 13-2091 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	155.11	23.23
26 05 33 13-2092 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	201.52	25.55
26 05 33 13-2093 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	267.71	32.06
26 05 33 13-2094 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial .....	341.26	43.67
<b>26 05 33 13-2095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2096 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	137.73	17.66
26 05 33 13-2097 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	155.29	20.44
26 05 33 13-2098 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	175.17	23.23
26 05 33 13-2099 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	212.83	25.55
26 05 33 13-2100 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	305.49	32.06
26 05 33 13-2101 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	385.61	43.67
26 05 33 13-2102 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	489.48	49.25
26 05 33 13-2103 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial .....	547.55	64.11
<b>26 05 33 13-2104 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2105 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	164.99	17.66
26 05 33 13-2106 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	181.95	20.44
26 05 33 13-2107 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	205.44	23.23
26 05 33 13-2108 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	256.41	25.55
26 05 33 13-2109 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	373.10	32.06
26 05 33 13-2110 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	460.75	43.67
26 05 33 13-2111 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	535.36	49.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2112 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial .....	631.78	64.11
<b>26 05 33 13-2113 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2114 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	186.20	17.66
26 05 33 13-2115 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	206.77	20.44
26 05 33 13-2116 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	235.23	23.23
26 05 33 13-2117 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	294.35	25.55
26 05 33 13-2118 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	409.99	32.06
26 05 33 13-2119 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	520.86	43.67
26 05 33 13-2120 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	646.91	49.25
26 05 33 13-2121 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	709.10	64.11
26 05 33 13-2122 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial .....	1,183.28	104.54
<b>26 05 33 13-2123 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2124 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	213.93	17.66
26 05 33 13-2125 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	236.75	20.44
26 05 33 13-2126 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	267.89	23.23
26 05 33 13-2127 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	336.43	25.55
26 05 33 13-2128 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	471.46	32.06
26 05 33 13-2129 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	597.44	43.67
26 05 33 13-2130 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	702.81	49.25
26 05 33 13-2131 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	808.92	64.11
26 05 33 13-2132 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	1,253.24	104.54
26 05 33 13-2133 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial .....	1,707.21	157.04
<b>26 05 33 13-2134 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2135 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	252.54	17.66
26 05 33 13-2136 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	263.48	20.44
26 05 33 13-2137 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	311.59	23.23
26 05 33 13-2138 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	395.01	25.55
26 05 33 13-2139 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	554.35	32.06
26 05 33 13-2140 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	700.67	43.67
26 05 33 13-2141 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	858.22	49.25
26 05 33 13-2142 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	1,003.10	64.11
26 05 33 13-2143 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	1,481.42	104.54
26 05 33 13-2144 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial .....	1,811.96	157.04
<b>26 05 33 13-2145 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2146 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	261.84	17.66
26 05 33 13-2147 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	308.69	20.44
26 05 33 13-2148 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	349.39	23.23



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2149 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	412.63	25.55
26 05 33 13-2150 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	575.06	32.06
26 05 33 13-2151 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	732.43	43.67
26 05 33 13-2152 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	942.85	49.25
26 05 33 13-2153 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	1,047.14	64.11
26 05 33 13-2154 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	1,542.72	104.54
26 05 33 13-2155 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial .....	1,865.18	157.04
<b>26 05 33 13-2156 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	84.94	11.61
26 05 33 13-2158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	91.64	14.40
26 05 33 13-2159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	119.54	17.66
26 05 33 13-2160 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial .....	176.45	20.44
26 05 33 13-2161 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial .....	209.98	23.23
26 05 33 13-2162 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	269.01	25.55
26 05 33 13-2163 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial .....	359.12	32.06
26 05 33 13-2164 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	470.82	32.06
26 05 33 13-2165 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial .....	602.99	49.25
26 05 33 13-2166 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	776.02	64.11
26 05 33 13-2167 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,419.85	104.54
26 05 33 13-2168 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,756.11	157.04
<b>26 05 33 13-2169 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2170 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	87.02	11.61
26 05 33 13-2171 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	99.58	14.40
26 05 33 13-2172 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	123.77	17.66
26 05 33 13-2173 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial .....	184.22	20.44
26 05 33 13-2174 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial .....	220.76	23.23
26 05 33 13-2175 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	292.30	25.55
26 05 33 13-2176 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial .....	408.94	32.06
26 05 33 13-2177 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	521.48	32.06
26 05 33 13-2178 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial .....	694.59	49.25
26 05 33 13-2179 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	867.28	64.11
26 05 33 13-2180 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,587.14	104.54
26 05 33 13-2181 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,026.23	157.04
<b>26 05 33 13-2182 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-2042)</small></b>		
26 05 33 13-2183 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	28.65	5.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.35	
26 05 33 13-2184 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.78	6.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2185 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.48	8.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2186 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.58	10.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2187 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.13	11.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2188 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.83	6.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2189 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.17	6.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2190 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.89	8.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2191 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.14	10.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2192 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.89	11.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2193 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.86	13.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33 13-2194 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	32.00	6.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2195 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.33	6.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2196 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.20	8.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2197 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.48	10.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2198 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.22	11.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2199 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.72	13.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33 13-2200 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.27	6.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2201 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.61	6.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2202 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.64	8.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2203 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.86	10.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2204 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.75	11.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2205 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.40	13.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33 13-2206 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	81.43	15.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33 13-2207 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	104.64	21.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33 13-2208 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.43	6.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2209 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.92	6.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2210 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.97	8.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2211 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.25	10.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2212 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.28	11.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2213 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	60.08	13.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2214	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	83.79	15.79
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33 13-2215	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	109.73	21.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33 13-2216	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	131.63	24.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33 13-2217	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	152.26	32.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33 13-2218	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.75	6.04
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2219	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.25	6.96
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2220	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.33	8.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2221	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.90	10.22
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2222	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.95	11.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2223	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	61.54	13.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33 13-2224	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	93.21	15.79
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33 13-2225	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	117.36	21.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33 13-2226	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	133.25	24.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33 13-2227	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	156.61	32.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33 13-2228	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	232.15	44.14
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33 13-2229	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	35.34	6.04
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2230	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.85	6.96
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	
26 05 33 13-2231	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.98	8.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-2232	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.09	10.22
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.13	
26 05 33 13-2233	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.39	11.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33 13-2234	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	63.00	13.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.80	
26 05 33 13-2235	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	102.78	15.79
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48	
26 05 33 13-2236	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	127.49	21.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.10	
26 05 33 13-2237	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	142.39	24.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33 13-2238	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	172.01	32.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33 13-2239	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	255.18	44.14
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33 13-2240	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.28	6.04
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-2241	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.76	6.96
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2242 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	44.41	8.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-2243 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.40	10.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-2244 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	58.30	11.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-2245 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	70.12	13.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-2246 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	114.54	15.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-2247 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	141.36	21.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	
26 05 33 13-2248 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	165.24	24.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77	
26 05 33 13-2249 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	195.13	32.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.23	
26 05 33 13-2250 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	270.95	44.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.48	
26 05 33 13-2251 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.26	6.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-2252 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.71	6.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-2253 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	45.82	8.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-2254 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.70	10.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-2255 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	65.24	11.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-2256 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	80.59	13.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-2257 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	126.97	15.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-2258 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	159.12	21.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	
26 05 33 13-2259 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	189.25	24.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77	
26 05 33 13-2260 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	235.58	32.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.23	
26 05 33 13-2261 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	302.44	44.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.48	
26 05 33 13-2262 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.26	6.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-2263 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.84	6.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.18	
26 05 33 13-2264 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.41	8.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-2265 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.78	10.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-2266 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	73.63	11.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-2267 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	89.01	13.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-2268 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	143.56	15.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.48	
26 05 33 13-2269 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	185.76	21.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.10	



**26 Electrical**  
**26 05 Common Work Results For Electrical**  
**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2270	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	203.98	24.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-2271	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	247.99	32.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.23	
26 05 33	13-2272	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	306.94	44.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.48	
26 05 33	13-2273		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-1962)</small> Note: Direct burial or encased application.		
26 05 33	13-2274		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-2273)</small>		
26 05 33	13-2275	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	4.85	1.12
			<i>For Work In Restricted Working Space, Add</i>	0.84	
26 05 33	13-2276	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	5.33	1.21
			<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 33	13-2277	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	5.67	1.30
			<i>For Work In Restricted Working Space, Add</i>	0.97	
26 05 33	13-2278	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.02	1.38
			<i>For Work In Restricted Working Space, Add</i>	1.04	
26 05 33	13-2279	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.45	1.47
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 33	13-2280	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.75	1.56
			<i>For Work In Restricted Working Space, Add</i>	1.17	
26 05 33	13-2281	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	7.53	1.64
			<i>For Work In Restricted Working Space, Add</i>	1.24	
26 05 33	13-2282	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	8.42	1.73
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33	13-2283	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	9.15	1.82
			<i>For Work In Restricted Working Space, Add</i>	1.37	
26 05 33	13-2284	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	9.87	1.90
			<i>For Work In Restricted Working Space, Add</i>	1.43	
26 05 33	13-2285	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	11.37	1.99
			<i>For Work In Restricted Working Space, Add</i>	1.49	
26 05 33	13-2286	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	13.19	2.07
			<i>For Work In Restricted Working Space, Add</i>	1.56	
26 05 33	13-2287		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-2273)</small>		
26 05 33	13-2288	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	59.38	8.65
			<i>For Work In Restricted Working Space, Add</i>	6.49	
			<i>For 24" Radius, Add</i>	3.91	
			<i>For 36" Radius, Add</i>	5.94	
			<i>For 48" Radius, Add</i>	7.96	
26 05 33	13-2289	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	68.22	10.38
			<i>For Work In Restricted Working Space, Add</i>	7.79	
			<i>For 24" Radius, Add</i>	4.47	
			<i>For 36" Radius, Add</i>	6.82	
			<i>For 48" Radius, Add</i>	9.18	
26 05 33	13-2290	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	72.98	12.12
			<i>For Work In Restricted Working Space, Add</i>	9.09	
			<i>For 24" Radius, Add</i>	4.72	
			<i>For 36" Radius, Add</i>	7.30	
			<i>For 48" Radius, Add</i>	9.88	
26 05 33	13-2291	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	77.73	13.85
			<i>For Work In Restricted Working Space, Add</i>	10.39	
			<i>For 24" Radius, Add</i>	4.96	
			<i>For 36" Radius, Add</i>	7.77	
			<i>For 48" Radius, Add</i>	10.58	
26 05 33	13-2292	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	82.49	15.58
			<i>For Work In Restricted Working Space, Add</i>	11.69	
			<i>For 24" Radius, Add</i>	5.21	
			<i>For 36" Radius, Add</i>	8.25	
			<i>For 48" Radius, Add</i>	11.29	
26 05 33	13-2293	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	92.81	17.31
			<i>For Work In Restricted Working Space, Add</i>	12.98	
			<i>For 24" Radius, Add</i>	5.88	
			<i>For 36" Radius, Add</i>	9.28	
			<i>For 48" Radius, Add</i>	12.68	
26 05 33	13-2294	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	106.89	19.05
			<i>For Work In Restricted Working Space, Add</i>	14.28	
			<i>For 24" Radius, Add</i>	6.83	
			<i>For 36" Radius, Add</i>	10.69	
			<i>For 48" Radius, Add</i>	14.55	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2295 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	123.08	20.78
For Work In Restricted Working Space, Add	15.58	
For 24" Radius, Add	7.93	
For 36" Radius, Add	12.31	
For 48" Radius, Add	16.68	
26 05 33 13-2296 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	140.63	24.23
For Work In Restricted Working Space, Add	18.18	
For 24" Radius, Add	9.03	
For 36" Radius, Add	14.06	
For 48" Radius, Add	19.09	
26 05 33 13-2297 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	158.18	31.16
For Work In Restricted Working Space, Add	20.78	
For 24" Radius, Add	10.13	
For 36" Radius, Add	15.82	
For 48" Radius, Add	21.50	
26 05 33 13-2298 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	189.06	31.16
For Work In Restricted Working Space, Add	23.37	
For 24" Radius, Add	12.23	
For 36" Radius, Add	18.91	
For 48" Radius, Add	25.58	
26 05 33 13-2299 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	225.50	34.63
For Work In Restricted Working Space, Add	25.97	
For 24" Radius, Add	14.75	
For 36" Radius, Add	22.55	
For 48" Radius, Add	30.35	
<b>26 05 33 13-2300 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-2273)</small>		
26 05 33 13-2301 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	27.74	4.85
For Work In Restricted Working Space, Add	3.64	
26 05 33 13-2302 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	31.26	5.54
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-2303 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	33.17	6.23
For Work In Restricted Working Space, Add	4.67	
26 05 33 13-2304 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	35.05	6.93
For Work In Restricted Working Space, Add	5.19	
26 05 33 13-2305 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	37.15	7.62
For Work In Restricted Working Space, Add	5.72	
26 05 33 13-2306 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	42.33	8.31
For Work In Restricted Working Space, Add	6.23	
26 05 33 13-2307 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	49.30	9.35
For Work In Restricted Working Space, Add	7.01	
26 05 33 13-2308 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	57.09	10.38
For Work In Restricted Working Space, Add	7.79	
26 05 33 13-2309 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	65.31	12.12
For Work In Restricted Working Space, Add	9.09	
26 05 33 13-2310 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	73.53	13.85
For Work In Restricted Working Space, Add	10.39	
26 05 33 13-2311 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	87.59	15.58
For Work In Restricted Working Space, Add	11.69	
26 05 33 13-2312 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	104.04	17.31
For Work In Restricted Working Space, Add	12.98	
<b>26 05 33 13-2313 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-2273)</small>		
26 05 33 13-2314 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	20.94	4.85
For Work In Restricted Working Space, Add	3.64	
26 05 33 13-2315 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	23.65	5.54
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-2316 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	25.48	6.23
For Work In Restricted Working Space, Add	4.67	
26 05 33 13-2317 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	27.31	6.93
For Work In Restricted Working Space, Add	5.19	
26 05 33 13-2318 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	29.16	7.62
For Work In Restricted Working Space, Add	5.72	
26 05 33 13-2319 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	30.95	8.31
For Work In Restricted Working Space, Add	6.23	
26 05 33 13-2320 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	35.57	9.35
For Work In Restricted Working Space, Add	7.01	
26 05 33 13-2321 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	40.61	10.38
For Work In Restricted Working Space, Add	7.79	
26 05 33 13-2322 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	46.77	12.12
For Work In Restricted Working Space, Add	9.09	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2323	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	52.93	13.85
			<i>For Work In Restricted Working Space, Add</i>	10.39	
26 05 33	13-2324	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	61.86	15.58
			<i>For Work In Restricted Working Space, Add</i>	11.69	
26 05 33	13-2325	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	71.88	17.31
			<i>For Work In Restricted Working Space, Add</i>	12.98	
<b>26 05 33 13-2326 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings</b> <small>(26 05 33 13-2273)</small>					
26 05 33	13-2327	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	17.89	2.77
			<i>For Work In Restricted Working Space, Add</i>	2.08	
26 05 33	13-2328	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	19.97	3.11
			<i>For Work In Restricted Working Space, Add</i>	2.34	
26 05 33	13-2329	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	20.97	3.46
			<i>For Work In Restricted Working Space, Add</i>	2.60	
26 05 33	13-2330	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	21.91	3.81
			<i>For Work In Restricted Working Space, Add</i>	2.86	
26 05 33	13-2331	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	23.05	4.16
			<i>For Work In Restricted Working Space, Add</i>	3.11	
26 05 33	13-2332	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	27.21	4.85
			<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 33	13-2333	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	32.82	5.89
			<i>For Work In Restricted Working Space, Add</i>	4.42	
26 05 33	13-2334	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	39.02	6.93
			<i>For Work In Restricted Working Space, Add</i>	5.19	
26 05 33	13-2335	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	46.06	8.65
			<i>For Work In Restricted Working Space, Add</i>	6.49	
26 05 33	13-2336	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	53.11	10.38
			<i>For Work In Restricted Working Space, Add</i>	7.79	
26 05 33	13-2337	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	64.21	12.12
			<i>For Work In Restricted Working Space, Add</i>	9.09	
26 05 33	13-2338	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....	77.03	13.85
			<i>For Work In Restricted Working Space, Add</i>	10.39	
<b>26 05 33 13-2339 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints</b> <small>(26 05 33 13-2273)</small>					
26 05 33	13-2340	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	55.36	17.31
			<i>For Work In Restricted Working Space, Add</i>	12.98	
26 05 33	13-2341	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	65.34	20.78
			<i>For Work In Restricted Working Space, Add</i>	15.58	
26 05 33	13-2342	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	74.15	24.23
			<i>For Work In Restricted Working Space, Add</i>	18.18	
26 05 33	13-2343	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	82.89	27.70
			<i>For Work In Restricted Working Space, Add</i>	20.78	
26 05 33	13-2344	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	87.54	29.43
			<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33	13-2345	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	94.51	31.16
			<i>For Work In Restricted Working Space, Add</i>	23.37	
26 05 33	13-2346	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	102.16	32.90
			<i>For Work In Restricted Working Space, Add</i>	24.67	
26 05 33	13-2347	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	110.46	34.63
			<i>For Work In Restricted Working Space, Add</i>	25.97	
26 05 33	13-2348	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	117.79	36.36
			<i>For Work In Restricted Working Space, Add</i>	27.27	
26 05 33	13-2349	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	125.11	38.09
			<i>For Work In Restricted Working Space, Add</i>	28.57	
26 05 33	13-2350	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	136.90	39.82
			<i>For Work In Restricted Working Space, Add</i>	29.87	
26 05 33	13-2351	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....	150.56	41.55
			<i>For Work In Restricted Working Space, Add</i>	31.16	
<b>26 05 33 13-2352 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints</b> <small>(26 05 33 13-2273)</small>					
26 05 33	13-2353	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	60.26	17.31
			<i>For Work In Restricted Working Space, Add</i>	12.98	
26 05 33	13-2354	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	70.84	20.78
			<i>For Work In Restricted Working Space, Add</i>	15.58	
26 05 33	13-2355	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	79.67	24.23
			<i>For Work In Restricted Working Space, Add</i>	18.18	
26 05 33	13-2356	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	88.48	27.70
			<i>For Work In Restricted Working Space, Add</i>	20.78	
26 05 33	13-2357	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	93.17	29.43
			<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33	13-2358	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	100.94	31.16
			<i>For Work In Restricted Working Space, Add</i>	23.37	
26 05 33	13-2359	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	109.88	32.90
			<i>For Work In Restricted Working Space, Add</i>	24.67	
26 05 33	13-2360	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	119.73	34.63
			<i>For Work In Restricted Working Space, Add</i>	25.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2361 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	128.22	36.36
<i>For Work In Restricted Working Space, Add</i>	27.27	
26 05 33 13-2362 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	136.70	38.09
<i>For Work In Restricted Working Space, Add</i>	28.57	
26 05 33 13-2363 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	151.42	39.82
<i>For Work In Restricted Working Space, Add</i>	29.87	
26 05 33 13-2364 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	168.72	41.55
<i>For Work In Restricted Working Space, Add</i>	31.16	
<b>26 05 33 13-2365 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters</b>		
<small>(26 05 33 13-2273)</small>		
26 05 33 13-2366 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	52.50	4.85
<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 33 13-2367 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	58.71	5.54
<i>For Work In Restricted Working Space, Add</i>	4.16	
26 05 33 13-2368 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	61.82	6.23
<i>For Work In Restricted Working Space, Add</i>	4.67	
26 05 33 13-2369 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	64.99	6.93
<i>For Work In Restricted Working Space, Add</i>	5.19	
26 05 33 13-2370 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	67.47	7.62
<i>For Work In Restricted Working Space, Add</i>	5.72	
26 05 33 13-2371 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	73.81	8.31
<i>For Work In Restricted Working Space, Add</i>	6.23	
26 05 33 13-2372 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	87.01	9.35
<i>For Work In Restricted Working Space, Add</i>	7.01	
26 05 33 13-2373 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	102.29	10.38
<i>For Work In Restricted Working Space, Add</i>	7.79	
26 05 33 13-2374 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	116.17	12.12
<i>For Work In Restricted Working Space, Add</i>	9.09	
26 05 33 13-2375 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	130.04	13.85
<i>For Work In Restricted Working Space, Add</i>	10.39	
26 05 33 13-2376 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	158.26	15.58
<i>For Work In Restricted Working Space, Add</i>	11.69	
26 05 33 13-2377 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	191.48	17.31
<i>For Work In Restricted Working Space, Add</i>	12.98	
<b>26 05 33 13-2378 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints</b>		
<small>(26 05 33 13-2273)</small>		
26 05 33 13-2379 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	68.79	17.31
<i>For Work In Restricted Working Space, Add</i>	12.98	
26 05 33 13-2380 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	80.29	20.78
<i>For Work In Restricted Working Space, Add</i>	15.58	
26 05 33 13-2381 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	95.62	24.23
<i>For Work In Restricted Working Space, Add</i>	18.18	
26 05 33 13-2382 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	116.48	27.70
<i>For Work In Restricted Working Space, Add</i>	20.78	
26 05 33 13-2383 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	138.32	29.43
<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2384 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	173.85	31.16
<i>For Work In Restricted Working Space, Add</i>	23.37	
26 05 33 13-2385 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	233.20	32.90
<i>For Work In Restricted Working Space, Add</i>	24.67	
26 05 33 13-2386 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	273.75	34.63
<i>For Work In Restricted Working Space, Add</i>	25.97	
26 05 33 13-2387 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	321.11	36.36
<i>For Work In Restricted Working Space, Add</i>	27.27	
26 05 33 13-2388 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	368.47	38.09
<i>For Work In Restricted Working Space, Add</i>	28.57	
26 05 33 13-2389 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	424.11	39.82
<i>For Work In Restricted Working Space, Add</i>	29.87	
26 05 33 13-2390 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	654.88	41.55
<i>For Work In Restricted Working Space, Add</i>	31.16	
<b>26 05 33 13-2391 Spacers</b>		
<small>(26 05 33 13-1962)</small>		
Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1962 for conduit.		
26 05 33 13-2392 EA 1" Base Spacers, Average 4" Wide, Direct Burial .....	9.01	
26 05 33 13-2393 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial.....	9.70	
26 05 33 13-2394 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial.....	10.73	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 33 13-2395	EA	1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.58
26 05 33 13-2396	EA	1-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	10.81
26 05 33 13-2397	EA	1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.63
26 05 33 13-2398	EA	2" Base Spacer, Average 4" Wide, Direct Burial.....	13.47
26 05 33 13-2399	EA	2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	12.51
26 05 33 13-2400	EA	2-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	14.90
26 05 33 13-2401	EA	2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	14.40
26 05 33 13-2402	EA	3" Base Spacer, Average 4" Wide, Direct Burial.....	17.07
26 05 33 13-2403	EA	3" Intermediate Spacers, Average 4" Wide, Direct Burial.....	16.28
26 05 33 13-2404	EA	3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	18.49
26 05 33 13-2405	EA	3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	17.66
26 05 33 13-2406	EA	4" Base Spacer, Average 4" Wide, Direct Burial.....	19.05
26 05 33 13-2407	EA	4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	18.17
26 05 33 13-2408	EA	5" Base Spacer, Average 4" Wide, Direct Burial.....	21.05
26 05 33 13-2409	EA	5" Intermediate Spacers, Average 4" Wide, Direct Burial.....	20.01
26 05 33 13-2410	EA	6" Base Spacer, Average 4" Wide, Direct Burial.....	23.63
26 05 33 13-2411	EA	6" Intermediate Spacers, Average 4" Wide, Direct Burial.....	22.76

**26 05 33 13-2412 Conduit Field Bending** (26 05 33 13-0057)**26 05 33 13-2413 Metallic Conduit Field Bending** (26 05 33 13-2412)

Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.

26 05 33 13-2414	EA	1-1/4" Metallic Conduit Field Bending.....	15.59
26 05 33 13-2415	EA	1-1/2" Metallic Conduit Field Bending.....	20.78
26 05 33 13-2416	EA	2" Metallic Conduit Field Bending.....	25.98
26 05 33 13-2417	EA	2-1/2" Metallic Conduit Field Bending.....	36.36
26 05 33 13-2418	EA	3" Metallic Conduit Field Bending.....	46.76
26 05 33 13-2419	EA	3-1/2" Metallic Conduit Field Bending.....	57.14
26 05 33 13-2420	EA	4" Metallic Conduit Field Bending.....	67.54
26 05 33 13-2421	EA	5" Metallic Conduit Field Bending.....	83.12
26 05 33 13-2422	EA	6" Metallic Conduit Field Bending.....	98.71

**26 05 33 13-2423 Plastic Conduit Field Bending** (26 05 33 13-2412)

Note: For PVC conduits.

26 05 33 13-2424	EA	1" Plastic Conduit Field Bending.....	23.90
26 05 33 13-2425	EA	1-1/4" Plastic Conduit Field Bending.....	25.98
26 05 33 13-2426	EA	1-1/2" Plastic Conduit Field Bending.....	31.17
26 05 33 13-2427	EA	2" Plastic Conduit Field Bending.....	41.57
26 05 33 13-2428	EA	2-1/2" Plastic Conduit Field Bending.....	51.95
26 05 33 13-2429	EA	3" Plastic Conduit Field Bending.....	62.35
26 05 33 13-2430	EA	3-1/2" Plastic Conduit Field Bending.....	72.73
26 05 33 13-2431	EA	4" Plastic Conduit Field Bending.....	83.12
26 05 33 13-2432	EA	5" Plastic Conduit Field Bending.....	93.52
26 05 33 13-2433	EA	6" Plastic Conduit Field Bending.....	103.90

**26 05 33 13-2434 Cut And Thread Existing In-Place Threaded Conduit** (26 05 33 13-0057)

Note: For use when connecting conduit to an existing in-place system.

26 05 33 13-2435	EA	1/2", Cut And Thread Existing In-Place Threaded Conduit.....	30.56
		<i>For Work In Restricted Working Space, Add</i>	9.17
26 05 33 13-2436	EA	3/4", Cut And Thread Existing In-Place Threaded Conduit.....	33.62
		<i>For Work In Restricted Working Space, Add</i>	10.09
26 05 33 13-2437	EA	1", Cut And Thread Existing In-Place Threaded Conduit.....	36.68
		<i>For Work In Restricted Working Space, Add</i>	11.00
26 05 33 13-2438	EA	1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	39.73
		<i>For Work In Restricted Working Space, Add</i>	11.92
26 05 33 13-2439	EA	1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	41.77
		<i>For Work In Restricted Working Space, Add</i>	12.53
26 05 33 13-2440	EA	2", Cut And Thread Existing In-Place Threaded Conduit.....	43.81
		<i>For Work In Restricted Working Space, Add</i>	13.14
26 05 33 13-2441	EA	2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	45.85
		<i>For Work In Restricted Working Space, Add</i>	13.76
26 05 33 13-2442	EA	3", Cut And Thread Existing In-Place Threaded Conduit.....	47.88
		<i>For Work In Restricted Working Space, Add</i>	14.36
26 05 33 13-2443	EA	3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	48.89
		<i>For Work In Restricted Working Space, Add</i>	14.67
26 05 33 13-2444	EA	4", Cut And Thread Existing In-Place Threaded Conduit.....	49.92
		<i>For Work In Restricted Working Space, Add</i>	14.98
26 05 33 13-2445	EA	5", Cut And Thread Existing In-Place Threaded Conduit.....	51.95
		<i>For Work In Restricted Working Space, Add</i>	15.59
26 05 33 13-2446	EA	6", Cut And Thread Existing In-Place Threaded Conduit.....	53.99
		<i>For Work In Restricted Working Space, Add</i>	16.20

**26 05 33 13-2447 Conduit Bodies** (26 05 33 13-0057)**26 05 33 13-2448 Threaded, Cast Aluminum Conduit Body** (26 05 33 13-2447)**26 05 33 13-2449 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body** (26 05 33 13-2448)





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2450 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	50.86	17.84
For Mogul LB, Add	2.47	
For Work In Restricted Working Space, Add	13.38	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.92	
For Elevated Installation >20' To 25', Add	11.15	
For Elevated Installation >25' To 30', Add	15.61	
For Elevated Installation >30' To 35', Add	17.84	
For Elevated Installation >35' To 40', Add	22.30	
For Elevated Installation >40', Add	24.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.38	
26 05 33 13-2451 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	59.61	20.44
For Mogul LB, Add	3.82	
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-2452 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	71.57	23.79
For Mogul LB, Add	6.10	
For Work In Restricted Working Space, Add	17.84	
For Elevated Installation >10' To 15', Add	5.95	
For Elevated Installation >15' To 20', Add	11.89	
For Elevated Installation >20' To 25', Add	14.87	
For Elevated Installation >25' To 30', Add	20.81	
For Elevated Installation >30' To 35', Add	23.79	
For Elevated Installation >35' To 40', Add	29.74	
For Elevated Installation >40', Add	32.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 05 33 13-2453 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	85.89	27.14
For Mogul LB, Add	10.15	
For Work In Restricted Working Space, Add	20.35	
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.13	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-2454 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	97.64	29.73
For Mogul LB, Add	13.76	
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-2455 EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	126.85	35.68
For Mogul LB, Add	23.77	
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2456 EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	208.75	50.18
For Mogul LB, Add	56.20	
For Work In Restricted Working Space, Add	37.64	
For Elevated Installation >10' To 15', Add	12.55	
For Elevated Installation >15' To 20', Add	25.09	
For Elevated Installation >20' To 25', Add	31.36	
For Elevated Installation >25' To 30', Add	43.91	
For Elevated Installation >30' To 35', Add	50.18	
For Elevated Installation >35' To 40', Add	62.73	
For Elevated Installation >40', Add	69.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2457	EA	3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	274.81	66.91
			<i>For Mogul LB, Add</i>	72.30	
			<i>For Work In Restricted Working Space, Add</i>	50.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.45	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	41.82	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	58.54	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	66.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	83.63	
			<i>For Elevated Installation &gt;40', Add</i>	91.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.18	
26 05 33	13-2458	EA	3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	362.90	83.64
			<i>For Mogul LB, Add</i>	104.91	
			<i>For Work In Restricted Working Space, Add</i>	62.72	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	20.91	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	41.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	52.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	73.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	83.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	104.54	
			<i>For Elevated Installation &gt;40', Add</i>	114.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.72	
26 05 33	13-2459	EA	4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	468.36	101.84
			<i>For Mogul LB, Add</i>	147.58	
			<i>For Work In Restricted Working Space, Add</i>	76.38	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.46	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.92	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	89.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	101.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	127.31	
			<i>For Elevated Installation &gt;40', Add</i>	140.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.38	
26 05 33	13-2460		<b>Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With</b>		
			<b>Cover</b> <small>(26 05 33 13-2448)</small>		
26 05 33	13-2461	EA	1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	51.62	17.84
			<i>For Mogul LB, Add</i>	3.04	
			<i>For Work In Restricted Working Space, Add</i>	13.38	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.46	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.92	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.15	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.61	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.30	
			<i>For Elevated Installation &gt;40', Add</i>	24.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.38	
26 05 33	13-2462	EA	3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	60.35	20.44
			<i>For Mogul LB, Add</i>	4.37	
			<i>For Work In Restricted Working Space, Add</i>	15.33	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
			<i>For Elevated Installation &gt;40', Add</i>	28.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.33	
26 05 33	13-2463	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	73.06	23.79
			<i>For Mogul LB, Add</i>	7.22	
			<i>For Work In Restricted Working Space, Add</i>	17.84	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.95	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.87	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.81	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	29.74	
			<i>For Elevated Installation &gt;40', Add</i>	32.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84	
26 05 33	13-2464	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	87.71	27.14
			<i>For Mogul LB, Add</i>	11.52	
			<i>For Work In Restricted Working Space, Add</i>	20.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.57	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.96	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.92	
			<i>For Elevated Installation &gt;40', Add</i>	37.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2465 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	100.74	29.73
For Mogul LB, Add	16.08	
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-2466 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	133.50	35.68
For Mogul LB, Add	28.76	
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2467 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	205.39	50.18
For Mogul LB, Add	53.68	
For Work In Restricted Working Space, Add	37.64	
For Elevated Installation >10' To 15', Add	12.55	
For Elevated Installation >15' To 20', Add	25.09	
For Elevated Installation >20' To 25', Add	31.36	
For Elevated Installation >25' To 30', Add	43.91	
For Elevated Installation >30' To 35', Add	50.18	
For Elevated Installation >35' To 40', Add	62.73	
For Elevated Installation >40', Add	69.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	
26 05 33 13-2468 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	263.52	66.91
For Mogul LB, Add	63.83	
For Work In Restricted Working Space, Add	50.18	
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.90	
For Elevated Installation >35' To 40', Add	83.63	
For Elevated Installation >40', Add	91.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-2469 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	372.52	83.64
For Mogul LB, Add	112.13	
For Work In Restricted Working Space, Add	62.72	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.63	
For Elevated Installation >35' To 40', Add	104.54	
For Elevated Installation >40', Add	114.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.72	
26 05 33 13-2470 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	488.02	101.84
For Mogul LB, Add	162.33	
For Work In Restricted Working Space, Add	76.38	
For Elevated Installation >10' To 15', Add	25.46	
For Elevated Installation >15' To 20', Add	50.92	
For Elevated Installation >20' To 25', Add	63.65	
For Elevated Installation >25' To 30', Add	89.11	
For Elevated Installation >30' To 35', Add	101.84	
For Elevated Installation >35' To 40', Add	127.31	
For Elevated Installation >40', Add	140.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.38	
26 05 33 13-2471 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <sup>(26 05 33 13-2448)</sup> .....	59.41	20.44
26 05 33 13-2472 EA 1 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	59.41	20.44
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2473	EA	3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	70.15	23.79
			<i>For Work In Restricted Working Space, Add</i>	17.84	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.95	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.87	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.81	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	29.74	
			<i>For Elevated Installation &gt;40', Add</i>	32.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84	
26 05 33	13-2474	EA	1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	80.16	26.01
			<i>For Work In Restricted Working Space, Add</i>	19.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
			<i>For Elevated Installation &gt;40', Add</i>	35.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33	13-2475	EA	1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	97.25	29.73
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.30	
26 05 33	13-2476	EA	1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	111.55	32.71
			<i>For Work In Restricted Working Space, Add</i>	24.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.44	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.62	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.89	
			<i>For Elevated Installation &gt;40', Add</i>	44.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.53	
26 05 33	13-2477	EA	2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	146.64	38.28
			<i>For Work In Restricted Working Space, Add</i>	28.71	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.28	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	47.86	
			<i>For Elevated Installation &gt;40', Add</i>	52.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.71	
26 05 33	13-2478	EA	2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	229.38	55.76
			<i>For Work In Restricted Working Space, Add</i>	41.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	27.88	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	34.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	48.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	55.76	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	69.70	
			<i>For Elevated Installation &gt;40', Add</i>	76.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.82	
26 05 33	13-2479	EA	3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	296.56	72.48
			<i>For Work In Restricted Working Space, Add</i>	54.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	18.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	36.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	45.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	63.42	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	72.48	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	90.60	
			<i>For Elevated Installation &gt;40', Add</i>	99.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.36	
26 05 33	13-2480	EA	3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	462.62	89.21
			<i>For Work In Restricted Working Space, Add</i>	66.91	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	22.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	44.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	55.76	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	78.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	89.21	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	111.51	
			<i>For Elevated Installation &gt;40', Add</i>	122.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2481 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	532.35	107.43
For Work In Restricted Working Space, Add	80.57	
For Elevated Installation >10' To 15', Add	26.86	
For Elevated Installation >15' To 20', Add	53.71	
For Elevated Installation >20' To 25', Add	67.14	
For Elevated Installation >25' To 30', Add	93.99	
For Elevated Installation >30' To 35', Add	107.42	
For Elevated Installation >35' To 40', Add	134.28	
For Elevated Installation >40', Add	147.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.57	
<b>26 05 33 13-2482 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2482)</small>		
26 05 33 13-2483 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	51.77	17.84
For Work In Restricted Working Space, Add	13.38	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.92	
For Elevated Installation >20' To 25', Add	11.15	
For Elevated Installation >25' To 30', Add	15.61	
For Elevated Installation >30' To 35', Add	17.84	
For Elevated Installation >35' To 40', Add	22.30	
For Elevated Installation >40', Add	24.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.38	
26 05 33 13-2484 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	59.82	20.44
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-2485 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	71.52	23.42
For Work In Restricted Working Space, Add	17.56	
For Elevated Installation >10' To 15', Add	5.85	
For Elevated Installation >15' To 20', Add	11.71	
For Elevated Installation >20' To 25', Add	14.64	
For Elevated Installation >25' To 30', Add	20.49	
For Elevated Installation >30' To 35', Add	23.42	
For Elevated Installation >35' To 40', Add	29.27	
For Elevated Installation >40', Add	32.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 05 33 13-2486 EA 1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	86.99	27.14
For Work In Restricted Working Space, Add	20.35	
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.13	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-2487 EA 1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	97.13	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-2488 EA 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	126.90	35.68
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2489 EA 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	202.56	50.18
For Work In Restricted Working Space, Add	37.64	
For Elevated Installation >10' To 15', Add	12.55	
For Elevated Installation >15' To 20', Add	25.09	
For Elevated Installation >20' To 25', Add	31.36	
For Elevated Installation >25' To 30', Add	43.91	
For Elevated Installation >30' To 35', Add	50.18	
For Elevated Installation >35' To 40', Add	62.73	
For Elevated Installation >40', Add	69.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2490	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	261.72	66.91
			<i>For Work In Restricted Working Space, Add</i>	50.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.45	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	41.82	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	58.54	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	66.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	83.63	
			<i>For Elevated Installation &gt;40', Add</i>	91.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.18	
26 05 33	13-2491	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	366.74	83.64
			<i>For Work In Restricted Working Space, Add</i>	62.72	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	20.91	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	41.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	52.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	73.18	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	83.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	104.54	
			<i>For Elevated Installation &gt;40', Add</i>	114.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.72	
26 05 33	13-2492	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	470.16	101.84
			<i>For Work In Restricted Working Space, Add</i>	76.38	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.46	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.92	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	89.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	101.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	127.31	
			<i>For Elevated Installation &gt;40', Add</i>	140.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.38	
26 05 33	13-2493		<b>Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33)</small>		
26 05 33	13-2494	EA	<sup>13-2493</sup> 1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	68.72	23.42
			<i>For Work In Restricted Working Space, Add</i>	17.56	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.85	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.64	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.49	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	29.27	
			<i>For Elevated Installation &gt;40', Add</i>	32.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.56	
26 05 33	13-2495	EA	3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	78.82	26.01
			<i>For Work In Restricted Working Space, Add</i>	19.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
			<i>For Elevated Installation &gt;40', Add</i>	35.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33	13-2496	EA	1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	94.85	28.62
			<i>For Work In Restricted Working Space, Add</i>	21.47	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.89	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	25.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	28.62	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	35.78	
			<i>For Elevated Installation &gt;40', Add</i>	39.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.47	
26 05 33	13-2497	EA	1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	109.21	32.71
			<i>For Work In Restricted Working Space, Add</i>	24.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.44	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.62	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.71	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.89	
			<i>For Elevated Installation &gt;40', Add</i>	44.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.53	
26 05 33	13-2498	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	137.27	35.68
			<i>For Work In Restricted Working Space, Add</i>	26.76	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.84	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.61	
			<i>For Elevated Installation &gt;40', Add</i>	49.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.76	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2499 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	166.32	43.86
For Work In Restricted Working Space, Add	32.90	
For Elevated Installation >10' To 15', Add	10.97	
For Elevated Installation >15' To 20', Add	21.93	
For Elevated Installation >20' To 25', Add	27.41	
For Elevated Installation >25' To 30', Add	38.38	
For Elevated Installation >30' To 35', Add	43.86	
For Elevated Installation >35' To 40', Add	54.83	
For Elevated Installation >40', Add	60.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.90	
26 05 33 13-2500 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	301.36	64.30
For Work In Restricted Working Space, Add	48.23	
For Elevated Installation >10' To 15', Add	16.08	
For Elevated Installation >15' To 20', Add	32.15	
For Elevated Installation >20' To 25', Add	40.19	
For Elevated Installation >25' To 30', Add	56.27	
For Elevated Installation >30' To 35', Add	64.30	
For Elevated Installation >35' To 40', Add	80.38	
For Elevated Installation >40', Add	88.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.23	
26 05 33 13-2501 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	373.79	83.64
For Work In Restricted Working Space, Add	62.72	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.63	
For Elevated Installation >35' To 40', Add	104.54	
For Elevated Installation >40', Add	114.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.72	
26 05 33 13-2502 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	525.83	103.34
For Work In Restricted Working Space, Add	78.06	
For Elevated Installation >10' To 15', Add	26.02	
For Elevated Installation >15' To 20', Add	52.04	
For Elevated Installation >20' To 25', Add	65.05	
For Elevated Installation >25' To 30', Add	91.07	
For Elevated Installation >30' To 35', Add	104.08	
For Elevated Installation >35' To 40', Add	130.10	
For Elevated Installation >40', Add	143.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.06	
26 05 33 13-2503 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	634.44	124.15
For Work In Restricted Working Space, Add	93.11	
For Elevated Installation >10' To 15', Add	31.04	
For Elevated Installation >15' To 20', Add	62.07	
For Elevated Installation >20' To 25', Add	77.59	
For Elevated Installation >25' To 30', Add	108.63	
For Elevated Installation >30' To 35', Add	124.15	
For Elevated Installation >35' To 40', Add	155.19	
For Elevated Installation >40', Add	170.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.11	
<b>26 05 33 13-2504 Threaded, Malleable Iron Conduit Body</b> <small>(26 05 33 13-2447)</small>		
<b>26 05 33 13-2505 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2504)</small>		
26 05 33 13-2506 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	52.99	17.84
For Work In Restricted Working Space, Add	13.38	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.92	
For Elevated Installation >20' To 25', Add	11.15	
For Elevated Installation >25' To 30', Add	15.61	
For Elevated Installation >30' To 35', Add	17.84	
For Elevated Installation >35' To 40', Add	22.30	
For Elevated Installation >40', Add	24.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.38	
26 05 33 13-2507 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	61.39	20.44
For Work In Restricted Working Space, Add	15.33	
For Elevated Installation >10' To 15', Add	5.11	
For Elevated Installation >15' To 20', Add	10.22	
For Elevated Installation >20' To 25', Add	12.78	
For Elevated Installation >25' To 30', Add	17.89	
For Elevated Installation >30' To 35', Add	20.44	
For Elevated Installation >35' To 40', Add	25.56	
For Elevated Installation >40', Add	28.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-2508 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	74.79	23.79
For Work In Restricted Working Space, Add	17.84	
For Elevated Installation >10' To 15', Add	5.95	
For Elevated Installation >15' To 20', Add	11.89	
For Elevated Installation >20' To 25', Add	14.87	
For Elevated Installation >25' To 30', Add	20.81	
For Elevated Installation >30' To 35', Add	23.79	
For Elevated Installation >35' To 40', Add	29.74	
For Elevated Installation >40', Add	32.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2509 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	95.32	27.14
For Work In Restricted Working Space, Add	20.35	
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.13	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-2510 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	108.06	29.73
For Work In Restricted Working Space, Add	22.30	
For Elevated Installation >10' To 15', Add	7.43	
For Elevated Installation >15' To 20', Add	14.87	
For Elevated Installation >20' To 25', Add	18.59	
For Elevated Installation >25' To 30', Add	26.02	
For Elevated Installation >30' To 35', Add	29.74	
For Elevated Installation >35' To 40', Add	37.17	
For Elevated Installation >40', Add	40.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-2511 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	145.64	35.68
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2512 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	240.96	50.18
For Work In Restricted Working Space, Add	37.64	
For Elevated Installation >10' To 15', Add	12.55	
For Elevated Installation >15' To 20', Add	25.09	
For Elevated Installation >20' To 25', Add	31.36	
For Elevated Installation >25' To 30', Add	43.91	
For Elevated Installation >30' To 35', Add	50.18	
For Elevated Installation >35' To 40', Add	62.73	
For Elevated Installation >40', Add	69.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	
26 05 33 13-2513 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	339.59	66.91
For Work In Restricted Working Space, Add	50.18	
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.91	
For Elevated Installation >35' To 40', Add	83.64	
For Elevated Installation >40', Add	92.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-2514 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	464.19	83.64
For Work In Restricted Working Space, Add	62.72	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.63	
For Elevated Installation >35' To 40', Add	104.54	
For Elevated Installation >40', Add	114.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.72	
26 05 33 13-2515 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	556.29	101.84
For Work In Restricted Working Space, Add	76.39	
For Elevated Installation >10' To 15', Add	25.46	
For Elevated Installation >15' To 20', Add	50.92	
For Elevated Installation >20' To 25', Add	63.66	
For Elevated Installation >25' To 30', Add	89.12	
For Elevated Installation >30' To 35', Add	101.85	
For Elevated Installation >35' To 40', Add	127.31	
For Elevated Installation >40', Add	140.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.39	
<b>26 05 33 13-2516 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b>		
<small>(26 05 33 13-2504)</small>		
26 05 33 13-2517 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	54.93	17.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.38	
26 05 33 13-2518 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	61.96	20.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-2519 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	77.76	23.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 05 33 13-2520 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	97.31	27.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-2521 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	110.49	29.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.30	
26 05 33 13-2522 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	140.66	35.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2523 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	213.26	50.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.64	
26 05 33 13-2524 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	289.78	66.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.18	
26 05 33 13-2525 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	493.52	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.72	
26 05 33 13-2526 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	577.92	101.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.39	
<b>26 05 33 13-2527 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small></b>		
26 05 33 13-2528 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....	64.96	20.44
<i>For Work In Restricted Working Space, Add</i>	15.33	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
<i>For Elevated Installation &gt;40', Add</i>	28.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.33	
26 05 33 13-2529 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....	76.59	23.79
<i>For Work In Restricted Working Space, Add</i>	18.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.20	
<i>For Elevated Installation &gt;40', Add</i>	33.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.12	
26 05 33 13-2530 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....	89.54	26.01
<i>For Work In Restricted Working Space, Add</i>	19.52	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.26	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.77	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	32.53	
<i>For Elevated Installation &gt;40', Add</i>	35.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.52	
26 05 33 13-2531 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	111.36	29.73
<i>For Work In Restricted Working Space, Add</i>	22.02	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	18.35	
<i>For Elevated Installation &gt;25' To 30', Add</i>	25.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	29.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	36.71	
<i>For Elevated Installation &gt;40', Add</i>	40.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.02	
26 05 33 13-2532 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	127.37	32.71
<i>For Work In Restricted Working Space, Add</i>	24.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.62	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.71	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.89	
<i>For Elevated Installation &gt;40', Add</i>	44.97	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.53	
26 05 33 13-2533 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	167.15	38.28
<i>For Work In Restricted Working Space, Add</i>	28.71	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	23.93	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.50	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.28	
<i>For Elevated Installation &gt;35' To 40', Add</i>	47.86	
<i>For Elevated Installation &gt;40', Add</i>	52.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.71	
26 05 33 13-2534 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	214.34	55.76
<i>For Work In Restricted Working Space, Add</i>	41.82	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	27.88	
<i>For Elevated Installation &gt;20' To 25', Add</i>	34.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	48.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	55.76	
<i>For Elevated Installation &gt;35' To 40', Add</i>	69.70	
<i>For Elevated Installation &gt;40', Add</i>	76.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.82	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2535	EA	3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	305.74	72.48
			<i>For Work In Restricted Working Space, Add</i>	54.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	18.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	36.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	45.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	63.42	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	72.48	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	90.60	
			<i>For Elevated Installation &gt;40', Add</i>	99.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.36	
26 05 33	13-2536	EA	3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	521.01	89.21
			<i>For Work In Restricted Working Space, Add</i>	66.91	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	22.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	44.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	55.76	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	78.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	89.21	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	111.51	
			<i>For Elevated Installation &gt;40', Add</i>	122.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.91	
26 05 33	13-2537	EA	4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	604.49	107.43
			<i>For Work In Restricted Working Space, Add</i>	80.84	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	26.95	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	53.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	67.37	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	94.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	107.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	134.74	
			<i>For Elevated Installation &gt;40', Add</i>	148.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.84	
26 05 33	13-2538		Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2534)</small>		
26 05 33	13-2539	EA	1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	53.13	17.84
			<i>For Work In Restricted Working Space, Add</i>	13.38	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.46	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.92	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.15	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.61	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.30	
			<i>For Elevated Installation &gt;40', Add</i>	24.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.38	
26 05 33	13-2540	EA	3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	63.90	20.44
			<i>For Work In Restricted Working Space, Add</i>	15.33	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.56	
			<i>For Elevated Installation &gt;40', Add</i>	28.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.33	
26 05 33	13-2541	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	74.56	23.42
			<i>For Work In Restricted Working Space, Add</i>	17.56	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.85	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.64	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.49	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	29.27	
			<i>For Elevated Installation &gt;40', Add</i>	32.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.56	
26 05 33	13-2542	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	98.98	27.14
			<i>For Work In Restricted Working Space, Add</i>	20.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.57	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.96	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.92	
			<i>For Elevated Installation &gt;40', Add</i>	37.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.35	
26 05 33	13-2543	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	114.91	29.73
			<i>For Work In Restricted Working Space, Add</i>	22.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.59	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.02	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.17	
			<i>For Elevated Installation &gt;40', Add</i>	40.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2544 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	147.60	35.68
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2545 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	335.58	94.14
For Work In Restricted Working Space, Add	70.57	
For Elevated Installation >10' To 15', Add	23.52	
For Elevated Installation >15' To 20', Add	47.04	
For Elevated Installation >20' To 25', Add	58.81	
For Elevated Installation >25' To 30', Add	82.33	
For Elevated Installation >30' To 35', Add	94.09	
For Elevated Installation >35' To 40', Add	117.61	
For Elevated Installation >40', Add	129.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.57	
26 05 33 13-2546 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	310.70	66.91
For Work In Restricted Working Space, Add	50.18	
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.91	
For Elevated Installation >35' To 40', Add	83.64	
For Elevated Installation >40', Add	92.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-2547 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	493.52	83.64
For Work In Restricted Working Space, Add	62.72	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.63	
For Elevated Installation >35' To 40', Add	104.54	
For Elevated Installation >40', Add	114.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.72	
26 05 33 13-2548 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	577.90	101.84
For Work In Restricted Working Space, Add	76.38	
For Elevated Installation >10' To 15', Add	25.46	
For Elevated Installation >15' To 20', Add	50.92	
For Elevated Installation >20' To 25', Add	63.65	
For Elevated Installation >25' To 30', Add	89.11	
For Elevated Installation >30' To 35', Add	101.84	
For Elevated Installation >35' To 40', Add	127.30	
For Elevated Installation >40', Add	140.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.38	
<b>26 05 33 13-2549 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover</b> (26 05 33)		
13-2504		
26 05 33 13-2550 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	73.89	23.42
For Work In Restricted Working Space, Add	17.56	
For Elevated Installation >10' To 15', Add	5.85	
For Elevated Installation >15' To 20', Add	11.71	
For Elevated Installation >20' To 25', Add	14.64	
For Elevated Installation >25' To 30', Add	20.49	
For Elevated Installation >30' To 35', Add	23.42	
For Elevated Installation >35' To 40', Add	29.27	
For Elevated Installation >40', Add	32.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 05 33 13-2551 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	80.97	26.01
For Work In Restricted Working Space, Add	19.52	
For Elevated Installation >10' To 15', Add	6.51	
For Elevated Installation >15' To 20', Add	13.01	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.77	
For Elevated Installation >30' To 35', Add	26.02	
For Elevated Installation >35' To 40', Add	32.53	
For Elevated Installation >40', Add	35.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.52	
26 05 33 13-2552 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	93.40	28.62
For Work In Restricted Working Space, Add	21.47	
For Elevated Installation >10' To 15', Add	7.16	
For Elevated Installation >15' To 20', Add	14.31	
For Elevated Installation >20' To 25', Add	17.89	
For Elevated Installation >25' To 30', Add	25.04	
For Elevated Installation >30' To 35', Add	28.62	
For Elevated Installation >35' To 40', Add	35.78	
For Elevated Installation >40', Add	39.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.47	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2553 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	110.62	32.71
For Work In Restricted Working Space, Add	24.53	
For Elevated Installation >10' To 15', Add	8.18	
For Elevated Installation >15' To 20', Add	16.35	
For Elevated Installation >20' To 25', Add	20.44	
For Elevated Installation >25' To 30', Add	28.62	
For Elevated Installation >30' To 35', Add	32.71	
For Elevated Installation >35' To 40', Add	40.89	
For Elevated Installation >40', Add	44.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.53	
26 05 33 13-2554 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	126.86	35.68
For Work In Restricted Working Space, Add	26.76	
For Elevated Installation >10' To 15', Add	8.92	
For Elevated Installation >15' To 20', Add	17.84	
For Elevated Installation >20' To 25', Add	22.30	
For Elevated Installation >25' To 30', Add	31.22	
For Elevated Installation >30' To 35', Add	35.68	
For Elevated Installation >35' To 40', Add	44.61	
For Elevated Installation >40', Add	49.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.76	
26 05 33 13-2555 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	175.19	43.86
For Work In Restricted Working Space, Add	32.90	
For Elevated Installation >10' To 15', Add	10.97	
For Elevated Installation >15' To 20', Add	21.93	
For Elevated Installation >20' To 25', Add	27.41	
For Elevated Installation >25' To 30', Add	38.38	
For Elevated Installation >30' To 35', Add	43.86	
For Elevated Installation >35' To 40', Add	54.83	
For Elevated Installation >40', Add	60.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.90	
26 05 33 13-2556 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	277.77	64.30
For Work In Restricted Working Space, Add	48.23	
For Elevated Installation >10' To 15', Add	16.08	
For Elevated Installation >15' To 20', Add	32.15	
For Elevated Installation >20' To 25', Add	40.19	
For Elevated Installation >25' To 30', Add	56.27	
For Elevated Installation >30' To 35', Add	64.30	
For Elevated Installation >35' To 40', Add	80.38	
For Elevated Installation >40', Add	88.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.23	
26 05 33 13-2557 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	403.52	83.64
For Work In Restricted Working Space, Add	62.72	
For Elevated Installation >10' To 15', Add	20.91	
For Elevated Installation >15' To 20', Add	41.82	
For Elevated Installation >20' To 25', Add	52.27	
For Elevated Installation >25' To 30', Add	73.18	
For Elevated Installation >30' To 35', Add	83.63	
For Elevated Installation >35' To 40', Add	104.54	
For Elevated Installation >40', Add	114.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.72	
26 05 33 13-2558 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	594.57	103.34
For Work In Restricted Working Space, Add	77.50	
For Elevated Installation >10' To 15', Add	25.83	
For Elevated Installation >15' To 20', Add	51.67	
For Elevated Installation >20' To 25', Add	64.58	
For Elevated Installation >25' To 30', Add	90.42	
For Elevated Installation >30' To 35', Add	103.33	
For Elevated Installation >35' To 40', Add	129.17	
For Elevated Installation >40', Add	142.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.50	
26 05 33 13-2559 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	667.37	124.15
For Work In Restricted Working Space, Add	93.11	
For Elevated Installation >10' To 15', Add	31.04	
For Elevated Installation >15' To 20', Add	62.07	
For Elevated Installation >20' To 25', Add	77.59	
For Elevated Installation >25' To 30', Add	108.63	
For Elevated Installation >30' To 35', Add	124.15	
For Elevated Installation >35' To 40', Add	155.19	
For Elevated Installation >40', Add	170.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.11	
26 05 33 13-2560 Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2447)		
26 05 33 13-2561 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2560)		
26 05 33 13-2562 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	24.94	7.06
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2563 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	31.98	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-2564 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	42.94	11.52
For Work In Restricted Working Space, Add	8.64	
For Elevated Installation >10' To 15', Add	2.88	
For Elevated Installation >15' To 20', Add	5.76	
For Elevated Installation >20' To 25', Add	7.20	
For Elevated Installation >25' To 30', Add	10.08	
For Elevated Installation >30' To 35', Add	11.52	
For Elevated Installation >35' To 40', Add	14.41	
For Elevated Installation >40', Add	15.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.64	
26 05 33 13-2565 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	55.40	14.13
For Work In Restricted Working Space, Add	10.59	
For Elevated Installation >10' To 15', Add	3.53	
For Elevated Installation >15' To 20', Add	7.06	
For Elevated Installation >20' To 25', Add	8.83	
For Elevated Installation >25' To 30', Add	12.36	
For Elevated Installation >30' To 35', Add	14.12	
For Elevated Installation >35' To 40', Add	17.66	
For Elevated Installation >40', Add	19.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.59	
26 05 33 13-2566 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	72.14	16.35
For Work In Restricted Working Space, Add	12.27	
For Elevated Installation >10' To 15', Add	4.09	
For Elevated Installation >15' To 20', Add	8.18	
For Elevated Installation >20' To 25', Add	10.22	
For Elevated Installation >25' To 30', Add	14.31	
For Elevated Installation >30' To 35', Add	16.36	
For Elevated Installation >35' To 40', Add	20.45	
For Elevated Installation >40', Add	22.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.27	
26 05 33 13-2567 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	94.57	18.59
For Work In Restricted Working Space, Add	13.94	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.29	
For Elevated Installation >20' To 25', Add	11.62	
For Elevated Installation >25' To 30', Add	16.26	
For Elevated Installation >30' To 35', Add	18.59	
For Elevated Installation >35' To 40', Add	23.24	
For Elevated Installation >40', Add	25.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.94	
<b>26 05 33 13-2568 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With</b>		
<b>Cover (26 05 33 13-2560)</b>		
26 05 33 13-2569 EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	25.14	7.06
For Work In Restricted Working Space, Add	5.30	
For Elevated Installation >10' To 15', Add	1.77	
For Elevated Installation >15' To 20', Add	3.53	
For Elevated Installation >20' To 25', Add	4.42	
For Elevated Installation >25' To 30', Add	6.18	
For Elevated Installation >30' To 35', Add	7.06	
For Elevated Installation >35' To 40', Add	8.83	
For Elevated Installation >40', Add	9.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-2570 EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	32.75	9.29
For Work In Restricted Working Space, Add	6.97	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.65	
For Elevated Installation >20' To 25', Add	5.81	
For Elevated Installation >25' To 30', Add	8.13	
For Elevated Installation >30' To 35', Add	9.29	
For Elevated Installation >35' To 40', Add	11.62	
For Elevated Installation >40', Add	12.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.97	
26 05 33 13-2571 EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	40.26	11.52
For Work In Restricted Working Space, Add	8.64	
For Elevated Installation >10' To 15', Add	2.88	
For Elevated Installation >15' To 20', Add	5.76	
For Elevated Installation >20' To 25', Add	7.20	
For Elevated Installation >25' To 30', Add	10.08	
For Elevated Installation >30' To 35', Add	11.52	
For Elevated Installation >35' To 40', Add	14.41	
For Elevated Installation >40', Add	15.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.64	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 33 Raceway And Boxes For Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2572	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	55.18	14.13
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.66	
			<i>For Elevated Installation &gt;40', Add</i>	19.42	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	
26 05 33	13-2573	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	67.70	16.35
			<i>For Work In Restricted Working Space, Add</i>	12.27	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.09	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.31	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.45	
			<i>For Elevated Installation &gt;40', Add</i>	22.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.27	
26 05 33	13-2574	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	94.19	18.59
			<i>For Work In Restricted Working Space, Add</i>	13.94	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.29	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.26	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.59	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.24	
			<i>For Elevated Installation &gt;40', Add</i>	25.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.94	
26 05 33	13-2575		<b>Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover</b> <small>(26)</small>		
			<small>05 33 13-2560</small>		
26 05 33	13-2576	EA	1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	32.40	9.29
			<i>For Work In Restricted Working Space, Add</i>	6.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.32	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.62	
			<i>For Elevated Installation &gt;40', Add</i>	12.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.97	
26 05 33	13-2577	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	42.02	11.52
			<i>For Work In Restricted Working Space, Add</i>	8.64	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.88	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.20	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.41	
			<i>For Elevated Installation &gt;40', Add</i>	15.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.64	
26 05 33	13-2578	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	50.75	14.13
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.66	
			<i>For Elevated Installation &gt;40', Add</i>	19.42	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	
26 05 33	13-2579	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	69.41	16.35
			<i>For Work In Restricted Working Space, Add</i>	12.83	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.55	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.69	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.96	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.10	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.38	
			<i>For Elevated Installation &gt;40', Add</i>	23.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.83	
26 05 33	13-2580	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	88.39	18.59
			<i>For Work In Restricted Working Space, Add</i>	15.05	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.56	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.07	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.09	
			<i>For Elevated Installation &gt;40', Add</i>	27.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2581 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.65 17.28 5.76 11.52 14.40 20.16 23.04 28.81 31.69 17.28	20.81
<b>26 05 33 13-2582 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2560)</small>		
26 05 33 13-2583 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.79 5.30 1.77 3.53 4.42 6.18 7.06 8.83 9.71 5.30	7.06
26 05 33 13-2584 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.45 6.97 2.32 4.65 5.81 8.13 9.29 11.62 12.78 6.97	9.29
26 05 33 13-2585 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.91 8.64 2.88 5.76 7.20 10.08 11.52 14.41 15.85 8.64	11.52
26 05 33 13-2586 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.56 10.59 3.53 7.06 8.83 12.36 14.12 17.66 19.42 10.59	14.13
26 05 33 13-2587 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.19 12.27 4.09 8.18 10.22 14.31 16.36 20.45 22.49 12.27	16.35
26 05 33 13-2588 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.61 13.94 4.65 9.29 11.62 16.26 18.59 23.24 25.56 13.94	18.59
<b>26 05 33 13-2589 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways)</b> <small>(26 05 33 13-2447)</small>		
26 05 33 13-2590 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.93 15.28	20.35
26 05 33 13-2591 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	379.31 28.24	37.64
26 05 33 13-2592 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	732.47 57.29	76.38

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2593		Replacement Covers And Gaskets For Conduit Body <small>(26 05 33 13-2447)</small>		
26 05 33	13-2594		Replacement Stamped Aluminum Conduit Body Cover <small>(26 05 33 13-2593)</small>		
26 05 33	13-2595	EA	1/2" Replacement Stamped Aluminum Conduit Body Cover.....	9.30	3.63
26 05 33	13-2596	EA	3/4" Replacement Stamped Aluminum Conduit Body Cover.....	11.33	4.23
26 05 33	13-2597	EA	1" Replacement Stamped Aluminum Conduit Body Cover.....	14.51	5.43
26 05 33	13-2598	EA	1-1/4" Replacement Stamped Aluminum Conduit Body Cover.....	17.67	6.64
26 05 33	13-2599	EA	1-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	21.63	7.86
26 05 33	13-2600	EA	2" Replacement Stamped Aluminum Conduit Body Cover.....	25.59	9.06
26 05 33	13-2601	EA	2-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	33.45	10.27
26 05 33	13-2602	EA	3" Replacement Stamped Aluminum Conduit Body Cover.....	43.63	14.50
26 05 33	13-2603	EA	3-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	47.41	16.30
26 05 33	13-2604	EA	4" Replacement Stamped Aluminum Conduit Body Cover.....	59.71	20.53
26 05 33	13-2605		Replacement Cast Steel Conduit Body Cover <small>(26 05 33 13-2593)</small>		
26 05 33	13-2606	EA	1/2" Replacement Cast Steel Conduit Body Cover.....	10.70	3.63
26 05 33	13-2607	EA	3/4" Replacement Cast Steel Conduit Body Cover.....	12.54	4.23
26 05 33	13-2608	EA	1" Replacement Cast Steel Conduit Body Cover.....	17.51	5.43
26 05 33	13-2609	EA	1-1/4" Replacement Cast Steel Conduit Body Cover.....	21.73	6.64
26 05 33	13-2610	EA	1-1/2" Replacement Cast Steel Conduit Body Cover.....	26.36	7.86
26 05 33	13-2611	EA	2" Replacement Cast Steel Conduit Body Cover.....	31.00	9.06
26 05 33	13-2612	EA	2-1/2" Replacement Cast Steel Conduit Body Cover.....	35.60	10.27
26 05 33	13-2613	EA	3" Replacement Cast Steel Conduit Body Cover.....	48.71	14.50
26 05 33	13-2614	EA	3-1/2" Replacement Cast Steel Conduit Body Cover.....	55.41	16.30
26 05 33	13-2615	EA	4" Replacement Cast Steel Conduit Body Cover.....	69.83	20.53
26 05 33	13-2616		Replacement Velbuna Composition Conduit Body Gasket <small>(26 05 33 13-2593)</small>		
26 05 33	13-2617	EA	1/2" Replacement Velbuna Composition Conduit Body Gasket.....	8.67	3.63
26 05 33	13-2618	EA	3/4" Replacement Velbuna Composition Conduit Body Gasket.....	9.93	4.23
26 05 33	13-2619	EA	1" Replacement Velbuna Composition Conduit Body Gasket.....	12.95	5.43
26 05 33	13-2620	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket.....	16.73	6.64
26 05 33	13-2621	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	19.14	7.86
26 05 33	13-2622	EA	2" Replacement Velbuna Composition Conduit Body Gasket.....	22.71	9.06
26 05 33	13-2623	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	29.51	10.27
26 05 33	13-2624	EA	3" Replacement Velbuna Composition Conduit Body Gasket.....	38.71	14.50
26 05 33	13-2625	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	42.75	16.30
26 05 33	13-2626	EA	4" Replacement Velbuna Composition Conduit Body Gasket.....	51.11	20.53
26 05 33	13-2627		Replacement Neoprene Conduit Body Gasket <small>(26 05 33 13-2593)</small>		
26 05 33	13-2628	EA	1/2" Replacement Neoprene Conduit Body Gasket.....	9.64	3.63
26 05 33	13-2629	EA	3/4" Replacement Neoprene Conduit Body Gasket.....	10.85	4.23
26 05 33	13-2630	EA	1" Replacement Neoprene Conduit Body Gasket.....	14.16	5.43
26 05 33	13-2631	EA	1-1/4" Replacement Neoprene Conduit Body Gasket.....	17.34	6.64
26 05 33	13-2632	EA	1-1/2" Replacement Neoprene Conduit Body Gasket.....	19.75	7.86
26 05 33	13-2633	EA	2" Replacement Neoprene Conduit Body Gasket.....	22.77	9.06
26 05 33	13-2634	EA	2-1/2" Replacement Neoprene Conduit Body Gasket.....	29.66	10.27
26 05 33	13-2635	EA	3" Replacement Neoprene Conduit Body Gasket.....	38.86	14.50
26 05 33	13-2636	EA	3-1/2" Replacement Neoprene Conduit Body Gasket.....	43.78	16.30
26 05 33	13-2637	EA	4" Replacement Neoprene Conduit Body Gasket.....	52.14	20.53
26 05 33	16		<b>Boxes For Electrical Systems</b> <small>(26 05 33)</small>		
			See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.		
26 05 33	16-0001		Steel Junction, Device, And Fixture Boxes, Rings And Covers <small>(26 05 33 16)</small>		
			Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.		
26 05 33	16-0002		4" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33	16-0003	EA	1-1/2" Depth, 4" Square Steel Box.....	33.21	15.26
			For Stud Bracket, Add.....	0.66	
26 05 33	16-0004	EA	2-1/8" Depth, 4" Square Steel Box.....	34.43	15.26
			For Stud Bracket, Add.....	1.19	
26 05 33	16-0005	EA	3-1/2" Depth, 4" Square Steel Box.....	38.62	15.26
			For Stud Bracket, Add.....	1.29	
26 05 33	16-0006	EA	1-1/2" Depth, 4" Square Steel Extension Ring.....	26.33	10.18
26 05 33	16-0007	EA	2-1/8" Depth, 4" Square Steel Extension Ring.....	22.08	10.18
26 05 33	16-0008	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.46	5.09
26 05 33	16-0009	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.66	5.09
26 05 33	16-0010	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.80	5.09
26 05 33	16-0011	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	12.25	5.09
26 05 33	16-0012	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	12.38	5.09
26 05 33	16-0013	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	13.84	5.09
26 05 33	16-0014	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.01	5.09
26 05 33	16-0015	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.15	5.09
26 05 33	16-0016	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.32	5.09
26 05 33	16-0017	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	13.81	5.09
26 05 33	16-0018	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.11	5.09





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring .....	16.00	5.09
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings .....	12.73	5.09
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings .....	13.93	5.09
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover .....	11.99	5.09
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover .....	12.10	5.09
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover .....	11.96	5.09
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover .....	12.28	5.09
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover .....	12.55	5.09
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	15.88	5.09
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	12.50	5.09
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover .....	15.88	5.09
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	12.50	5.09
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	13.28	5.09
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	15.88	5.09
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover .....	15.88	5.09
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover .....	11.04	5.09
<b>26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers</b> (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box .....	37.73	15.26
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box .....	34.96	15.26
<i>For Stud Bracket, Add</i>	<i>0.62</i>	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box .....	48.84	15.26
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring .....	27.48	10.18
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring .....	28.16	10.18
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	14.22	5.09
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	14.26	5.09
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	15.44	5.09
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	14.96	5.09
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	14.86	5.09
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring .....	19.76	5.09
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	15.16	5.09
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	15.42	5.09
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	15.44	5.09
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	17.17	5.09
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	17.53	5.09
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring .....	21.73	5.09
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring .....	14.93	5.09
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring .....	15.06	5.09
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover .....	18.31	5.09
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover .....	19.22	5.09
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover .....	18.04	5.09
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover .....	17.05	5.09
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover .....	20.37	5.09
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover .....	19.21	5.09
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover .....	19.21	5.09
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover .....	19.21	5.09
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover .....	11.78	5.09
<b>26 05 33 16-0064 Steel Square Box Brackets</b> (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes .....	16.52	7.64
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box .....	12.10	5.10
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes .....	19.46	7.64
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes .....	20.98	7.64
<b>26 05 33 16-0069 4" Octagon Steel Boxes And Covers</b> (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box .....	27.64	12.71
<i>For Stud Bracket, Add</i>	<i>1.60</i>	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box .....	28.71	12.71
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover .....	10.97	5.09
<b>26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers</b> (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring .....	45.52	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring .....	48.36	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring .....	50.59	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring .....	52.77	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring .....	57.74	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring .....	62.90	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring .....	66.91	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover .....	12.44	5.09
<b>26 05 33 16-0082 4-1/2" Steel Gang Boxes</b> (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	42.77	12.71
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	47.01	13.73
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	56.67	15.26

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	74.35	16.79
26 05 33	16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	111.08	18.31
26 05 33	16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	59.27	12.71
26 05 33	16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	64.59	13.73
26 05 33	16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	86.36	15.26
26 05 33	16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	111.26	16.79
26 05 33	16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	184.07	18.31
26 05 33	16-0093	EA	2 Device, Gang Box Mud Ring.....	18.76	5.09
26 05 33	16-0094	EA	3 Device, Gang Box Mud Ring.....	19.04	5.09
26 05 33	16-0095	EA	4 Device, Gang Box Mud Ring.....	22.22	5.09
26 05 33	16-0096	EA	5 Device, Gang Box Mud Ring.....	27.68	5.09
26 05 33	16-0097	EA	6 Device, Gang Box Mud Ring.....	39.67	5.09
26 05 33	16-0098	EA	2 Device, Gang Box Flat Cover.....	16.03	5.09
26 05 33	16-0099	EA	3 Device, Gang Box Flat Cover.....	19.01	5.09
26 05 33	16-0100	EA	4 Device, Gang Box Flat Cover.....	22.96	5.09
26 05 33	16-0101	EA	5 Device, Gang Box Flat Cover.....	27.99	5.09
26 05 33	16-0102	EA	6 Device, Gang Box Flat Cover.....	40.52	5.09
<b>26 05 33</b>	<b>16-0103</b>		<b>Steel Switch Boxes</b> (26 05 33 16-0001)		
26 05 33	16-0104	EA	2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	29.70	12.71
26 05 33	16-0105	EA	2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	30.16	12.71
26 05 33	16-0106	EA	3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	32.54	12.71
26 05 33	16-0107	EA	2-1/2" Depth, 2 Device, Stud Bracket, Steel Box.....	37.90	12.71
26 05 33	16-0108	EA	2-1/2" Depth, 3 Device, Stud Bracket, Steel Box.....	38.36	12.71
26 05 33	16-0109	EA	2-1/2" Depth, 4 Device, Stud Bracket, Steel Box.....	45.61	12.71
<b>26 05 33</b>	<b>16-0110</b>		<b>4" x 2" Steel Handy Boxes, Extension Rings And Covers</b> (26 05 33 16-0001)		
26 05 33	16-0111	EA	1-1/2" Deep, 4" x 2" Steel Handy Box.....	27.52	12.71
			For Stud Bracket, Add	2.58	
26 05 33	16-0112	EA	1-7/8" Deep, 4" x 2" Steel Handy Box.....	28.02	12.71
			For Stud Bracket, Add	1.11	
26 05 33	16-0113	EA	2-1/8" Deep, 4" x 2" Steel Handy Box.....	29.11	12.71
			For Stud Bracket, Add	1.51	
26 05 33	16-0114	EA	1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	18.25	7.63
26 05 33	16-0115	EA	1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	17.76	7.63
26 05 33	16-0116	EA	GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover.....	6.17	2.54
26 05 33	16-0117	EA	1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.26	2.54
26 05 33	16-0118	EA	Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.80	2.54
26 05 33	16-0119	EA	Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.83	2.54
26 05 33	16-0120	EA	1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.77	2.54
26 05 33	16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover.....	5.83	2.54
<b>26 05 33</b>	<b>16-0122</b>		<b>3"-1/2" Depth, 3-3/4" Steel Masonry Boxes</b> (26 05 33 16-0001)		
26 05 33	16-0123	EA	1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	41.40	17.80
26 05 33	16-0124	EA	2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	46.39	18.82
26 05 33	16-0125	EA	3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	53.25	20.35
26 05 33	16-0126	EA	4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	60.71	22.38
<b>26 05 33</b>	<b>16-0127</b>		<b>Cast Boxes</b> (26 05 33 16)		
			Note: For flush or surface mount.		
<b>26 05 33</b>	<b>16-0128</b>		<b>Cast Iron Alloy Boxes</b> (26 05 33 16-0127)		
			See CSI section 26 27 26 00-0265 for box covers.		
<b>26 05 33</b>	<b>16-0129</b>		<b>Shallow, Single Gang Cast Iron Alloy Boxes</b> (26 05 33 16-0128)		
			Note: Up to 2" deep boxes.		
26 05 33	16-0130	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	85.41	30.52
			Note: One hub.		
26 05 33	16-0131	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	92.39	35.60
			Note: One hub.		
26 05 33	16-0132	EA	1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	108.99	43.24
			Note: One hub.		
26 05 33	16-0133	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	107.11	40.69
			Note: Two hubs.		
26 05 33	16-0134	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	136.40	48.33
			Note: Two hubs.		
26 05 33	16-0135	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	106.70	40.69
			Note: Two hubs.		
26 05 33	16-0136	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	128.22	48.33
			Note: Two hubs.		
26 05 33	16-0137	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	109.33	40.69
			Note: Two hubs.		
26 05 33	16-0138	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	128.25	48.33
			Note: Two hubs.		
26 05 33	16-0139	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	106.70	40.69
			Note: Two hubs.		
26 05 33	16-0140	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	125.01	48.33
			Note: Two hubs.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	127.48	50.86
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	150.98	61.04
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	132.52	50.86
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	170.22	61.04
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	135.82	50.86
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	162.31	61.04
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	127.05	50.86
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	164.53	61.04
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Four hubs.	161.40	61.04
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box ..... Note: Four hubs.	194.74	73.75
<b>26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes</b> (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box ..... Note: One hub.	89.13	30.52
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box ..... Note: One hub.	102.70	35.60
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box ..... Note: One hub.	120.89	43.24
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box ..... Note: Two hubs.	113.90	40.69
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box ..... Note: Two hubs.	131.71	48.33
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box ..... Note: Two hubs.	158.36	58.50
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box ..... Note: Two hubs.	140.97	48.33
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box ..... Note: Three hubs.	181.19	61.04
<b>26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes</b> (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box ..... Note: One hub.	102.19	33.06
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box ..... Note: One hub.	113.45	38.15
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box ..... Note: One hub.	132.02	45.78
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box ..... Note: Two hubs.	124.32	43.24
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box ..... Note: Two hubs.	141.49	50.86
<b>26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes</b> (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box ..... Note: One hub.	113.35	33.06
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box ..... Note: One hub.	123.95	38.15
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box ..... Note: Two hubs.	141.11	43.24
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box ..... Note: Two hubs.	159.23	50.86
<b>26 05 33 16-0171 Cast Aluminum Boxes</b> (26 05 33 16-0127) See CSI section 26 27 26 00-0265 for box covers.		
<b>26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes</b> (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box ..... Note: One hub.	75.23	25.44
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box ..... Note: One hub.	86.38	30.52
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box ..... Note: One hub.	96.67	38.15
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box ..... Note: One hub.	70.90	25.44
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box ..... Note: One hub.	89.43	30.52

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	96.00	35.60
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	115.41	43.24
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	144.69	53.41
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	103.53	35.60
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	111.75	43.24
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	99.25	35.60
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	114.31	43.24
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	96.48	35.60
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	114.31	43.24
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	90.09	35.60
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	121.10	43.24
26 05 33 16-0189 EA 1/2" Depth, Type FSQA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	114.85	45.78
26 05 33 16-0190 EA 3/4" Depth, Type FSQA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	139.59	55.95
26 05 33 16-0191 EA 1/2" Depth, Type FSQA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	121.47	45.78
26 05 33 16-0192 EA 3/4" Depth, Type FSQA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	162.52	55.95
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	120.91	45.78
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	148.31	55.95
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	150.28	55.95
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	147.45	55.95
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	180.05	68.68
<b>26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)</b> Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	82.91	25.44
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	99.34	30.52
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	114.49	38.15
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	106.35	30.52
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	105.93	35.60
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	127.61	43.24
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	143.54	53.41
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	129.23	43.24
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box..... Note: Three hubs.	158.55	55.95
<b>26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)</b> Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	98.75	27.98
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	113.26	33.06
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	122.47	40.69
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	123.95	38.15
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	127.53	45.78
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	157.43	55.95
<b>26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)</b> Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	98.66	27.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	114.30	33.06
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	126.34	38.15
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	143.59	45.78
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	126.34	38.15
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	143.59	45.78
<b>26 05 33 16-0222</b> <b>Shallow, Three Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	132.71	40.69
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	149.34	48.33
<b>26 05 33 16-0225</b> <b>Deep, Three Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box..... Note: One hub.	149.55	35.60
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box..... Note: One hub.	167.28	43.24
<b>26 05 33 16-0228</b> <b>Cast Aluminum Explosion Proof Outlet Bodies</b> <small>(26 05 33 16-0127)</small> Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	155.37	40.69
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	191.86	45.78
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	176.88	50.86
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	172.29	45.78
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	209.31	50.86
<b>26 05 33 16-0234</b> <b>Non Metallic (PVC) Boxes</b> <small>(26 05 33 16)</small> See CSI section 26 27 26 00-0265 for box covers.		
<b>26 05 33 16-0235</b> <b>Shallow, Single Gang Non Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	49.96	21.37
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	57.31	24.93
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	66.09	30.27
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	64.43	28.48
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	75.85	33.83
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	91.97	40.94
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	64.62	28.48
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	75.34	33.83
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	90.22	40.94
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	81.44	35.60
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	93.67	42.73
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	110.87	51.63
<b>26 05 33 16-0248</b> <b>Deep, Single Gang Non Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box..... Note: No hubs.	50.53	21.37
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box..... Note: One hub.	49.54	21.37
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box..... Note: One hub.	58.65	24.93
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box..... Note: One hub.	66.64	30.27
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	65.54	28.48
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	74.40	33.83
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	89.14	40.94



**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 16-0256</b> <b>Shallow, Two Gang Non Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257    EA    1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	53.82	23.14
26 05 33 16-0258    EA    3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	61.72	26.71
26 05 33 16-0259    EA    1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	69.76	32.05
26 05 33 16-0260    EA    1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	66.76	30.27
26 05 33 16-0261    EA    3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	81.81	35.60
26 05 33 16-0262    EA    1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	97.05	42.73
26 05 33 16-0263    EA    1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	68.07	30.27
26 05 33 16-0264    EA    3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	85.44	35.60
26 05 33 16-0265    EA    1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	94.14	42.73
26 05 33 16-0266    EA    1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	83.39	37.39
26 05 33 16-0267    EA    3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	107.82	44.51
26 05 33 16-0268    EA    1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	114.34	53.41
<b>26 05 33 16-0269</b> <b>Poke Thru Units</b> <small>(26 05 33 16)</small>		
<b>26 05 33 16-0270</b> <b>Surface Poke Thru Units</b> <small>(26 05 33 16-0269)</small>		
Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271    EA    Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	441.90	38.15
26 05 33 16-0272    EA    Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements.....	282.31	
Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.		
26 05 33 16-0273    EA    20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3REC.	39.50	10.18
26 05 33 16-0274    EA    Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	47.40	5.09
26 05 33 16-0275    EA    Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	499.67	40.69
26 05 33 16-0276    EA    Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements.....	264.41	
Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.		
26 05 33 16-0277    EA    Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4REC2.	67.60	15.26
26 05 33 16-0278    EA    Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	47.40	5.09
26 05 33 16-0279    EA    Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	137.91	10.18
26 05 33 16-0280    EA    Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	395.54	35.60
26 05 33 16-0281    EA    Abandonment Plate For RC9 Series Communications Poke Thru Unit..... Note: Wiremold RC9APTCBK.	33.02	5.09
26 05 33 16-0282    EA    Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	393.73	35.60
26 05 33 16-0283    EA    Communication Conduit Adapter For Poke Thru Units..... Note: Includes two conduit connections for communication systems. Wiremold COM75.	45.83	5.09
<b>26 05 33 16-0284</b> <b>Recessed Poke Thru Units</b> <small>(26 05 33 16-0269)</small>		
Note: Excludes concrete drilling.		
<b>26 05 33 16-0285</b> <b>Evolution 6AT Poke Thru Units</b> <small>(26 05 33 16-0284)</small>		
Note: Excludes concrete drilling.		
26 05 33 16-0286    EA    Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP).....	681.08	40.69
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0287    EA    Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP).....	681.16	40.69
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.45	40.69
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.45	40.69
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	681.08	40.69
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	681.08	40.69
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	622.67	40.69
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	392.39	38.15
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	420.37	38.15
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	423.14	38.15
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	121.45	20.35
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	273.52	10.18
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	273.52	10.18
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	227.64	10.18
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	33.11	2.54
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	16.83	5.09
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	19.32	5.09
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	16.76	5.09
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20A receptacles, GFCLs, 106 adapters or AV devices. For use in the center compartment only. Devices supplied by others.	16.81	5.09
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20A duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	16.70	5.09
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	19.58	5.09
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	19.38	5.09
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	19.83	5.09
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	16.46	5.09
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	16.48	5.09
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	16.26	5.09

**26 Electrical****26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	16.26	5.09
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	38.43	7.63
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	14.95	5.09
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	15.31	5.09
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	118.54	9.16
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	19.15	5.09
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	19.93	5.09
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	20.47	5.09
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	31.81	10.18
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	36.62	12.71
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	40.17	12.71
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	30.61	10.18
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	19.80	5.09
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	19.80	5.09
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	20.82	5.09
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	21.51	5.09
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
<b>26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)</b>		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	891.50	40.69
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	848.81	40.69
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	901.17	40.69
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	840.78	40.69
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	833.16	40.69
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	505.34	38.15
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	565.48	38.15
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	144.92	20.35
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	295.67	10.18
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	295.67	10.18
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	51.36	2.54
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B) ..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	17.37	5.09
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20A duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	17.46	5.09
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20A receptacles, GGCI's, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	17.57	5.09
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	20.24	5.09
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	24.34	5.09
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST) ..... Note: Device plate accepts Crestron double-gang decorator style devices.	24.31	5.09
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1) ..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	16.87	5.09
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	17.07	5.09
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	16.87	5.09
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	16.87	5.09
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	23.97	5.09
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	20.12	5.09
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	23.07	5.09
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	31.81	10.18

### 26 05 43 Underground Ducts And Raceways For Electrical Systems (26 05)

Note: Underground utilities and conduits include warning tape.

#### 26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

#### 26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench .....	56.87
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench.....	54.63
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench .....	78.98
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench.....	75.87
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench .....	40.25
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench .....	48.81
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	37.91

#### 26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench .....	72.75
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench.....	68.78
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench .....	99.22
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench.....	95.61
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench .....	51.11
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench .....	74.35
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	47.41

#### 26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench .....	94.61
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench.....	109.15
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench .....	118.00
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench.....	113.89
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench .....	73.84
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench .....	98.58
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	58.97



**26 Electrical****26 05 Common Work Results For Electrical****26 05 43 Underground Ducts And Raceways For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0026			<b>40" Wide Pedestrian Trench</b> (26 05 43 00-0001)		
	26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench.....	114.29	
	26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench.....	110.55	
	26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench.....	139.79	
	26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench.....	135.20	
	26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench.....	94.52	
	26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench.....	126.08	
	26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench.....	70.06	
26 05 43 00-0034			<b>Precast Concrete Trenches, One Piece Medium Vehicle Trench</b> (26 05 43)		
			Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0035			<b>10" Wide Medium Vehicle Trench</b> (26 05 43 00-0034)		
	26 05 43 00-0036	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	67.89	
	26 05 43 00-0037	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	64.98	
	26 05 43 00-0038	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	94.27	
	26 05 43 00-0039	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	90.24	
	26 05 43 00-0040	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench.....	46.38	
	26 05 43 00-0041	EA	End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	55.22	
	26 05 43 00-0042	LF	Lid, Concrete 10" Wide Medium Vehicle Trench.....	45.25	
	26 05 43 00-0043	LF	Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	187.81	
26 05 43 00-0044			<b>20" Wide Medium Vehicle Trench</b> (26 05 43 00-0034)		
	26 05 43 00-0045	LF	Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	86.20	
	26 05 43 00-0046	LF	Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	81.08	
	26 05 43 00-0047	LF	Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	116.96	
	26 05 43 00-0048	LF	Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	112.28	
	26 05 43 00-0049	EA	End Wall, 20" Wide x 15" Deep Medium Vehicle Trench.....	58.19	
	26 05 43 00-0050	EA	End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	84.78	
	26 05 43 00-0051	LF	Lid, Concrete 20" Wide Medium Vehicle Trench.....	56.59	
	26 05 43 00-0052	LF	Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	248.85	
26 05 43 00-0053			<b>30" Wide Medium Vehicle Trench</b> (26 05 43 00-0034)		
	26 05 43 00-0054	LF	Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	90.53	
	26 05 43 00-0055	LF	Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	106.32	
	26 05 43 00-0056	LF	Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	138.19	
	26 05 43 00-0057	LF	Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	132.86	
	26 05 43 00-0058	EA	End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	83.61	
	26 05 43 00-0059	EA	End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	113.05	
	26 05 43 00-0060	LF	Lid, Concrete 30" Wide Medium Vehicle Trench.....	70.60	
	26 05 43 00-0061	LF	Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	310.50	
26 05 43 00-0062			<b>40" Wide Medium Vehicle Trench</b> (26 05 43 00-0034)		
	26 05 43 00-0063	LF	Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	132.64	
	26 05 43 00-0064	LF	Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	127.80	
	26 05 43 00-0065	LF	Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	162.29	
	26 05 43 00-0066	LF	Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	156.35	
	26 05 43 00-0067	EA	End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	107.04	
	26 05 43 00-0068	EA	End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	144.55	
	26 05 43 00-0069	LF	Lid, Concrete 40" Wide Medium Vehicle Trench.....	83.51	
	26 05 43 00-0070	LF	Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	421.69	
26 05 43 00-0071			<b>Precast Concrete Trenches, One Piece H20 Road Crossing Trench</b> (26 05 43)		
			Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072			<b>10" Wide H20 Road Crossing Trench</b> (26 05 43 00-0071)		
	26 05 43 00-0073	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	140.53	
	26 05 43 00-0074	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	134.00	
	26 05 43 00-0075	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	176.31	
	26 05 43 00-0076	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	168.07	
	26 05 43 00-0077	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	135.15	
	26 05 43 00-0078	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	128.94	
	26 05 43 00-0079	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	170.93	
	26 05 43 00-0080	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	163.03	
	26 05 43 00-0081	EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	94.79	
	26 05 43 00-0082	EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	128.49	
	26 05 43 00-0083	EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	86.26	
	26 05 43 00-0084	EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	119.77	
	26 05 43 00-0085	LF	Lid, Concrete 10" Wide Road Crossing Trench.....	65.97	
	26 05 43 00-0086	LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	203.57	
26 05 43 00-0087			<b>20" Wide H20 Road Crossing Trench</b> (26 05 43 00-0071)		
	26 05 43 00-0088	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	150.77	
	26 05 43 00-0089	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	144.07	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench .....	200.35	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	191.39	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench .....	150.77	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench .....	144.07	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench .....	194.97	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench .....	186.35	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	135.17	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	184.57	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	122.74	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench .....	172.14	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench.....	74.06	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	301.34	
<b>26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)</b>		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench .....	180.46	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	172.79	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench .....	222.91	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	213.40	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench .....	175.08	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench .....	167.73	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench .....	217.54	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench .....	208.17	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	181.55	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	239.18	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench .....	165.23	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench .....	222.86	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench.....	93.45	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	377.70	
<b>26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)</b>		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench .....	201.23	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	192.99	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench .....	247.55	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	237.22	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench .....	195.85	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench .....	187.95	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench .....	242.17	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench .....	232.16	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	225.75	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	297.21	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	205.72	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench .....	277.18	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench.....	113.10	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	513.14	
<b>26 05 43 00-0132 Duct Bank (26 05 43)</b>		
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Labor units include material handling, unloading at job site, layout of job, measuring, cutting and fabrication, installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
<b>26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (26 05 43 00-0132)</b>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0134 LF 2 At 2", Rigid Galvanized Conduit Duct Bank .....	24.36	
26 05 43 00-0135 LF 4 At 2", Rigid Galvanized Conduit Duct Bank .....	48.73	
26 05 43 00-0136 LF 2 At 3", Rigid Galvanized Conduit Duct Bank .....	49.68	
26 05 43 00-0137 LF 4 At 3", Rigid Galvanized Conduit Duct Bank .....	99.63	
26 05 43 00-0138 LF 2 At 4", Rigid Galvanized Conduit Duct Bank .....	73.02	
26 05 43 00-0139 LF 4 At 4", Rigid Galvanized Conduit Duct Bank .....	146.97	
26 05 43 00-0140 LF 6 At 4", Rigid Galvanized Conduit Duct Bank .....	221.29	
26 05 43 00-0141 LF 2 At 5", Rigid Galvanized Conduit Duct Bank .....	133.74	
26 05 43 00-0142 LF 4 At 5", Rigid Galvanized Conduit Duct Bank .....	266.56	
26 05 43 00-0143 LF 6 At 5", Rigid Galvanized Conduit Duct Bank .....	411.74	
26 05 43 00-0144 LF 2 At 6", Rigid Galvanized Conduit Duct Bank .....	190.41	
26 05 43 00-0145 LF 4 At 6", Rigid Galvanized Conduit Duct Bank .....	382.15	
26 05 43 00-0146 LF 6 At 6", Rigid Galvanized Conduit Duct Bank .....	567.60	
<b>26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System (26 05 43 00-0132)</b>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0148 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	6.55	
26 05 43 00-0149 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	14.39	
26 05 43 00-0150 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	27.63	
26 05 43 00-0151 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	8.67	
26 05 43 00-0152 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	17.31	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 43 Underground Ducts And Raceways For Electrical Systems**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 43 00-0153	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	35.16
26 05 43 00-0154	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	11.58
26 05 43 00-0155	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	23.17
26 05 43 00-0156	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	46.40
26 05 43 00-0157	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	69.57
26 05 43 00-0158	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	14.62
26 05 43 00-0159	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	29.22
26 05 43 00-0160	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	56.57
26 05 43 00-0161	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	80.18
26 05 43 00-0162	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	26.00
26 05 43 00-0163	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	39.57
26 05 43 00-0164	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	79.32
26 05 43 00-0165	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	128.30

**26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0132)**

Note: Includes appropriate spacers and fittings.

26 05 43 00-0167	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	7.27
26 05 43 00-0168	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.90
26 05 43 00-0169	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	30.44
26 05 43 00-0170	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	9.00
26 05 43 00-0171	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.97
26 05 43 00-0172	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	35.83
26 05 43 00-0173	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	11.85
26 05 43 00-0174	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	23.72
26 05 43 00-0175	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	47.49
26 05 43 00-0176	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	71.20
26 05 43 00-0177	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.03
26 05 43 00-0178	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	30.04
26 05 43 00-0179	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	58.21
26 05 43 00-0180	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	82.65
26 05 43 00-0181	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	26.57
26 05 43 00-0182	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	40.75
26 05 43 00-0183	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	81.68
26 05 43 00-0184	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	131.84

**26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)**

26 05 43 00-0186	EA	2" Adapter	34.67
26 05 43 00-0187	EA	3" Adapter	49.44
26 05 43 00-0188	EA	4" Adapter	63.69
26 05 43 00-0189	EA	5" Adapter	95.85
26 05 43 00-0190	EA	6" Adapter	118.93

**26 05 46 Utility Poles for Electrical Systems (26 05)**

**26 05 46 00-0001 Wood Poles (26 05 46)**

**26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)**

Note: Machine dig and set.

26 05 46 00-0003	EA	25' Treated Wood Pole, Class 3, Machine Dig And Set	802.32	257.12
		<i>For Class 1 Pole, Add</i>	100.80	
		<i>For Class 2 Pole, Add</i>	57.60	
		<i>For Class 4 Pole, Deduct</i>	-28.80	
		<i>For Class 5 Pole, Deduct</i>	-86.40	
		<i>For Class 6 Pole, Deduct</i>	-115.20	
26 05 46 00-0004	EA	30' Treated Wood Pole, Class 3, Machine Dig And Set	961.59	285.28
		<i>For Class 1 Pole, Add</i>	136.85	
		<i>For Class 2 Pole, Add</i>	78.20	
		<i>For Class 4 Pole, Deduct</i>	-39.10	
		<i>For Class 5 Pole, Deduct</i>	-117.30	
		<i>For Class 6 Pole, Deduct</i>	-156.40	
26 05 46 00-0005	EA	35' Treated Wood Pole, Class 3, Machine Dig And Set	1,246.18	377.30
		<i>For Class 1 Pole, Add</i>	172.09	
		<i>For Class 2 Pole, Add</i>	98.34	
		<i>For Class 4 Pole, Deduct</i>	-49.17	
		<i>For Class 5 Pole, Deduct</i>	-147.51	
		<i>For Class 6 Pole, Deduct</i>	-196.68	
26 05 46 00-0006	EA	40' Treated Wood Pole, Class 3, Machine Dig And Set	1,427.00	414.99
		<i>For Class 1 Pole, Add</i>	208.97	
		<i>For Class 2 Pole, Add</i>	119.41	
		<i>For Class 4 Pole, Deduct</i>	-59.71	
		<i>For Class 5 Pole, Deduct</i>	-179.12	
		<i>For Class 6 Pole, Deduct</i>	-238.82	
26 05 46 00-0007	EA	45' Treated Wood Pole, Class 3, Machine Dig And Set	1,631.59	462.20
		<i>For Class 1 Pole, Add</i>	247.49	
		<i>For Class 2 Pole, Add</i>	141.42	
		<i>For Class 4 Pole, Deduct</i>	-70.71	
		<i>For Class 5 Pole, Deduct</i>	-212.13	
		<i>For Class 6 Pole, Deduct</i>	-282.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set .....	1,856.91	518.73
<i>For Class 1 Pole, Add</i>	286.82	
<i>For Class 2 Pole, Add</i>	163.90	
<i>For Class 4 Pole, Deduct</i>	-81.95	
<i>For Class 5 Pole, Deduct</i>	-245.84	
<i>For Class 6 Pole, Deduct</i>	-327.79	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set .....	2,077.72	570.55
<i>For Class 1 Pole, Add</i>	327.79	
<i>For Class 2 Pole, Add</i>	187.31	
<i>For Class 4 Pole, Deduct</i>	-93.66	
<i>For Class 5 Pole, Deduct</i>	-280.97	
<i>For Class 6 Pole, Deduct</i>	-374.62	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set .....	2,322.57	627.41
<i>For Class 1 Pole, Add</i>	373.68	
<i>For Class 2 Pole, Add</i>	213.53	
<i>For Class 4 Pole, Deduct</i>	-106.77	
<i>For Class 5 Pole, Deduct</i>	-320.30	
<i>For Class 6 Pole, Deduct</i>	-427.07	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set .....	3,827.79	683.82
<i>For Class 1 Pole, Add</i>	861.03	
<i>For Class 2 Pole, Add</i>	492.02	
<i>For Class 4 Pole, Deduct</i>	-246.01	
<i>For Class 5 Pole, Deduct</i>	-738.03	
<i>For Class 6 Pole, Deduct</i>	-984.04	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set .....	4,205.17	727.43
<i>For Class 1 Pole, Add</i>	962.60	
<i>For Class 2 Pole, Add</i>	550.06	
<i>For Class 4 Pole, Deduct</i>	-275.03	
<i>For Class 5 Pole, Deduct</i>	-825.09	
<i>For Class 6 Pole, Deduct</i>	-1,100.12	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set .....	4,624.11	776.95
<i>For Class 1 Pole, Add</i>	1,074.56	
<i>For Class 2 Pole, Add</i>	614.03	
<i>For Class 4 Pole, Deduct</i>	-307.02	
<i>For Class 5 Pole, Deduct</i>	-921.05	
<i>For Class 6 Pole, Deduct</i>	-1,228.07	
<b>26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm</b> <small>(26 05 46 00-0001)</small>		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms .....	21.91	
<b>26 05 46 00-0016 Crossarms</b> <small>(26 05 46)</small>		
Note: Includes hardware and braces.		
<b>26 05 46 00-0017 Wood Single Arm Crossarms</b> <small>(26 05 46 00-0016)</small>		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces .....	177.58	76.69
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces .....	215.68	76.69
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces .....	227.00	98.60
<b>26 05 46 00-0021 Wood Double Arm Crossarms</b> <small>(26 05 46 00-0016)</small>		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces .....	460.90	213.63
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces .....	489.77	213.63
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces .....	510.89	213.63
<b>26 05 46 00-0025 Fiberglass Crossarms</b> <small>(26 05 46 00-0016)</small>		
Note: Includes hardware.		
<b>26 05 46 00-0026 Single Phase, 15 Degree Angle</b> <small>(26 05 46 00-0025)</small>		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB .....	191.18	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 1 1/16" Diameter Hole, Minimum Ultimate Load 1,200 LB .....	244.52	46.02
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB .....	255.48	49.30
<b>26 05 46 00-0030 Two Phase, 15 Degree Angle</b> <small>(26 05 46 00-0025)</small>		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB .....	306.03	59.16
<b>26 05 46 00-0032 Fiberglass Crossarm Accessories</b> <small>(26 05 46 00-0025)</small>		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor .....	457.94	75.59
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor .....	544.96	92.02
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded .....	79.64	13.15
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket .....	398.21	65.73
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm .....	326.56	109.56
<b>26 05 46 00-0038 Insulator Support System</b> <small>(26 05 46 00-0016)</small>		
<b>26 05 46 00-0039 Epoxy Construction Units, In Place Mounting</b> <small>(26 05 46 00-0038)</small>		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting .....	98.24	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting .....	77.55	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	201.68	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting .....	152.21	
<b>26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)</b> Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.....	66.54	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.....	56.42	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	180.55	
<b>26 05 46 00-0048 Guying (26 05 46)</b> Note: Includes cable, anchor and rod assembly, guy marker.		
<b>26 05 46 00-0049 Down Guy (26 05 46 00-0048)</b>		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole .....	727.94	306.74
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole .....	738.96	306.74
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole .....	761.64	306.74
26 05 46 00-0053 EA Guy Guard, Plastic.....	26.01	
<b>26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)</b>		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole.....	1,063.91	471.07
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole.....	1,063.91	471.07
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole.....	1,063.91	471.07
<b>26 05 46 00-0058 Guy Strain Insulators Additional Insulators (26 05 46 00-0048)</b> Note: As required at same material cost and labor.		
26 05 46 00-0059 EA Guy Strain Insulator .....	463.41	230.06
<b>26 05 46 00-0060 Insulators (26 05 46)</b>		
<b>26 05 46 00-0061 Pin Insulator With Pin (26 05 46 00-0060)</b>		
26 05 46 00-0062 EA 5 KV Class 55-3, Pin Insulator With Pin .....	150.05	65.73
26 05 46 00-0063 EA 15 KV Class 55-5, Pin Insulator With Pin.....	156.08	65.73
<b>26 05 46 00-0064 Suspension Insulator (26 05 46 00-0060)</b> Note: Includes clevis and strain clamp.		
26 05 46 00-0065 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	193.15	87.64
26 05 46 00-0066 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp .....	209.55	87.64
26 05 46 00-0067 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....	299.15	109.56
26 05 46 00-0068 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....	481.07	175.29
<b>26 05 46 00-0069 Spool Insulator With Clevis (26 05 46 00-0060)</b>		
26 05 46 00-0070 EA 5 KV Class 53-5, Spool Insulator With Clevis .....	64.32	27.39
26 05 46 00-0071 EA 15 KV Class, Spool Insulator With Clevis.....	207.93	98.60
26 05 46 00-0072 EA 25 KV Class, Spool Insulator With Clevis.....	269.19	98.60
<b>26 05 46 00-0073 Secondary Rack (26 05 46 00-0060)</b>		
26 05 46 00-0074 EA 1 Spool Secondary Rack.....	127.45	54.77
26 05 46 00-0075 EA 2 Spool Secondary Rack.....	132.76	69.89
26 05 46 00-0076 EA 3 Spool Secondary Rack.....	198.55	93.12
26 05 46 00-0077 EA 4 Spool Secondary Rack.....	222.47	93.12
<b>26 05 46 00-0078 Outdoor Load Break Switches (26 05 46)</b> Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
<b>26 05 46 00-0079 7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)</b>		
26 05 46 00-0080 EA 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	4,030.60	372.47
26 05 46 00-0081 EA 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	7,931.80	372.47
26 05 46 00-0082 EA 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	11,817.08	629.93
26 05 46 00-0083 EA 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	12,043.61	629.93
<b>26 05 46 00-0084 14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)</b>		
26 05 46 00-0085 EA 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	4,934.36	372.47
26 05 46 00-0086 EA 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	9,382.22	372.47
26 05 46 00-0087 EA 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	11,817.08	629.93
26 05 46 00-0088 EA 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	12,043.61	629.93
<b>26 05 46 00-0089 23 KV Outdoor Load Break Switches (26 05 46 00-0078)</b>		
26 05 46 00-0090 EA 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	5,438.39	432.73
26 05 46 00-0091 EA 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	10,264.10	432.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0092 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	12,337.26	744.96
26 05 46 00-0093 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	12,571.20	744.96
<b>26 05 46 00-0094 Square Distribution Poles (26 05 46)</b>		
<b>26 05 46 00-0095 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)</b>		
26 05 46 00-0096 EA 20', Steel Taped Shaft Distribution Pole.....	2,467.51	465.60
26 05 46 00-0097 EA 25', Steel Taped Shaft Distribution Pole.....	2,760.60	492.99
26 05 46 00-0098 EA 30', Steel Taped Shaft Distribution Pole.....	2,999.91	547.76
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole.....	3,317.94	602.54
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole.....	4,438.77	657.32
<b>26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)</b>		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution.....	4,191.04	840.11
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution.....	4,734.99	921.41
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution.....	5,556.61	1,029.81
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution.....	6,261.27	1,138.21
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution.....	5,140.46	1,382.11
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution.....	8,831.08	1,626.01
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution.....	10,420.04	1,842.82
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution.....	12,577.14	2,276.43
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution.....	14,088.32	2,493.23
<b>26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)</b>		
<b>26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)</b>		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	2,381.87	410.82
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	3,293.67	438.21
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	3,784.35	492.99
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	4,476.55	547.76
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	6,700.27	602.54
<b>26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)</b>		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
<b>26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)</b>		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution .....	3,372.48	657.32
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution .....	3,896.75	712.09
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution .....	4,155.23	766.87
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution .....	4,882.60	876.42
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution .....	5,997.89	985.97
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution .....	7,163.92	1,273.72
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution .....	7,987.74	1,444.99
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution .....	8,837.41	1,626.01
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution .....	9,932.83	1,842.82
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution .....	10,608.90	1,951.22
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution .....	11,537.59	2,168.02
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution .....	12,696.68	2,439.03
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution .....	14,058.09	2,764.23
<b>26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)</b>		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	5,578.14	657.32
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	6,150.20	712.09
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	6,802.14	766.87
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	7,487.72	876.42
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	9,878.77	985.97
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	11,068.67	1,273.72
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	12,810.52	1,444.99
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	13,812.20	1,626.01
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	14,901.38	1,842.82
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	15,789.41	1,951.22
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	17,907.37	2,168.02
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	19,048.60	2,439.03
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,451.72	2,764.23
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	21,944.65	3,089.43
<b>26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)</b>		
26 05 46 00-0149 EA Ladder Clips.....	19.22	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	144.21	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line .....	145.05	
<b>26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)</b>		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate .....	539.83	109.56



**26 Electrical****26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate .....	583.32	109.56
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate .....	737.21	164.33
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate .....	775.25	164.33
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate .....	927.47	219.10
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate .....	970.93	219.10
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate .....	1,281.64	273.88
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate .....	1,330.44	273.88
<b>26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)</b>		
26 05 46 00-0162 EA 15,000 LB Standard Vangs Load Bearing At Any Angle .....	254.97	109.56
26 05 46 00-0163 EA 30,000 LB Standard Vangs Load Bearing At Any Angle .....	281.61	109.56
26 05 46 00-0164 EA 45,000 LB Standard Vangs Load Bearing At Any Angle .....	318.04	109.56
<b>26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)</b>		
<b>26 05 46 00-0166 Verticals Insulator And Equipment Bracket (26 05 46 00-0165)</b>		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket .....	259.31	109.56
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket .....	276.13	109.56
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket .....	303.46	109.56
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket .....	431.04	164.33
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket .....	447.00	164.33
<b>26 05 46 00-0172 Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)</b>		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets.....	246.21	109.56
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets.....	281.56	109.56
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets.....	413.92	164.33
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets.....	497.34	164.33
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets.....	641.52	219.10
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets.....	685.80	219.10
<b>26 05 46 00-0179 Pole Top Bracket And Pins (26 05 46 00-0165)</b>		
26 05 46 00-0180 EA Pole Top Pin - 5" .....	251.34	109.56
26 05 46 00-0181 EA Pole Top Bracket - 5" .....	259.92	109.56
<b>26 05 46 00-0182 Angle Pins (26 05 46 00-0165)</b>		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6" .....	250.18	109.56
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4" .....	278.06	109.56
<b>26 05 46 00-0185 Static And Neutral Wire Brackets (26 05 46 00-0165)</b>		
26 05 46 00-0186 EA Neutral Wire Extension Bracket .....	260.89	109.56
26 05 46 00-0187 EA Static Wire Support Bracket .....	263.88	109.56
<b>26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)</b>		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket .....	247.71	109.56
26 05 46 00-0190 EA Equipment Mounting T Bracket .....	266.43	109.56
26 05 46 00-0191 EA 15 KV Cutout.....	352.12	
26 05 46 00-0192 EA 9/10 KV Arrestor.....	325.79	109.56
<b>26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)</b>		
26 05 46 00-0194 EA Parallel Cable Spacer .....	282.39	109.56
26 05 46 00-0195 EA Conduit Standoff Support Bracket.....	272.83	109.56
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket.....	604.43	109.56
<b>26 05 46 00-0197 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)</b>		
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket .....	1,708.13	273.88
<b>26 05 46 00-0199 Octagonal Tapered (26 05 46 00-0118)</b>		
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution .....	5,742.07	657.32
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution .....	6,332.02	712.09
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution .....	7,004.83	766.87
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution .....	7,708.29	931.20
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution .....	10,182.80	985.97
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution .....	11,396.55	1,273.72
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution .....	13,192.05	1,355.02
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution .....	14,219.07	1,626.01
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution .....	15,332.09	1,734.42
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution .....	16,245.46	1,951.22
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution .....	18,427.50	2,059.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution .....	19,595.56	2,439.03
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution .....	21,025.51	2,601.63
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution .....	22,548.25	2,926.83
<b>26 05 46 00-0214 Removal And Relocation Of Steel Service Poles</b> <small>(26 05 46 00-0118)</small>		
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60' .....	38.34	
<b>26 05 46 00-0216 Special Steel Bases For Poles</b> <small>(26 05 46 00-0118)</small>		
26 05 46 00-0217 EA Spin-In Steel Base For Poles .....	197.87	
26 05 46 00-0218 EA Series 3, 25' Pole And less .....	216.50	54.77
26 05 46 00-0219 EA Series 4, 40' Pole And less .....	256.69	62.99
26 05 46 00-0220 EA Series 5, 50' Pole And less .....	291.41	68.47
<b>26 05 46 00-0221 Primary Fuse Cutouts</b> <small>(26 05 46)</small>		
<small>Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.</small>		
<b>26 05 46 00-0222 Non-Loadbreak Current Limiting Primary Fuse Cutouts</b> <small>(26 05 46 00-0221)</small>		
<small>Note: Includes the fuse and cut-out switch.</small>		
<b>26 05 46 00-0223 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting</b> <small>(26 05 46 00-0222)</small>		
26 05 46 00-0224 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....	557.49	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
26 05 46 00-0225 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....	667.04	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		164.33
26 05 46 00-0226 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....	776.23	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.09
26 05 46 00-0227 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....	787.73	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.20
26 05 46 00-0228 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....	787.73	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.20
<b>26 05 46 00-0229 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting</b> <small>(26 05 46 00-0222)</small>		
26 05 46 00-0230 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting .....	557.49	219.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
<b>26 05 46 00-0231 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting</b> <small>(26 05 46 00-0222)</small>		
26 05 46 00-0232 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting .....	572.53	219.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
<b>26 05 46 00-0233 Fuseholders</b> <small>(26 05 46 00-0222)</small>		
<small>Note: Including current limiting fuse.</small>		
26 05 46 00-0234 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	494.09	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
26 05 46 00-0235 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	603.64	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		164.33
26 05 46 00-0236 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	712.83	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.09
26 05 46 00-0237 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	499.30	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
26 05 46 00-0238 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	608.85	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		164.33
26 05 46 00-0239 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....	494.09	219.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
<b>26 05 46 00-0240 Accessories</b> <small>(26 05 46 00-0222)</small>		
26 05 46 00-0241 EA Hot Line Clamp .....	70.29	24.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.43
26 05 46 00-0242 EA Stirrup .....	75.07	24.65
<b>26 05 46 00-0243 Loadbreak Current Limiting Primary Fuse Cutouts</b> <small>(26 05 46 00-0221)</small>		
<small>Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.</small>		
<b>26 05 46 00-0244 8.3 KV-95 KV BIL Loadbreak Current Limiting</b> <small>(26 05 46 00-0243)</small>		
26 05 46 00-0245 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....	674.62	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		131.46
26 05 46 00-0246 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....	784.17	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		164.33
26 05 46 00-0247 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....	893.36	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.09
26 05 46 00-0248 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....	915.78	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.20
26 05 46 00-0249 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....	915.78	273.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		197.20

**26 Electrical****26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 46 00-0250 17.1 KV-95 KV BIL Loadbreak Current Limiting</b> (26 05 46 00-0243)		
26 05 46 00-0251 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting .....674.62	674.62	219.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.46	
<b>26 05 46 00-0252 17.1 KV-125 KV BIL Loadbreak Current Limiting</b> (26 05 46 00-0243)		
26 05 46 00-0253 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting .....674.62	674.62	219.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.46	
<b>26 05 46 00-0254 Fuseholders</b> (26 05 46 00-0243)		
Note: Includes current limiting fuses.		
26 05 46 00-0255 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....499.46	499.46	273.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.46	
26 05 46 00-0256 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....609.01	609.01	273.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.33	
26 05 46 00-0257 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....718.20	718.20	273.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.09	
26 05 46 00-0258 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....499.46	499.46	273.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.46	
<b>26 05 46 00-0259 Pole Mounted Capacitors</b> (26 05 46 00-0243)		
26 05 46 00-0260 EA Capacitors - Pole Mounted 6 KVAR .....1,109.33	1,109.33	220.86
<b>26 05 46 00-0261 Pole Structure Assemblies</b> (26 05 46 00-0221)		
<b>26 05 46 00-0262 5 KV Pole Structure Assemblies</b> (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0263 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....437.04	437.04	208.15
26 05 46 00-0264 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....731.67	731.67	350.57
26 05 46 00-0265 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....760.74	760.74	273.88
26 05 46 00-0266 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....423.03	423.03	142.42
26 05 46 00-0267 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....548.15	548.15	197.20
26 05 46 00-0268 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....988.83	988.83	394.39
26 05 46 00-0269 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....766.65	766.65	295.79
26 05 46 00-0270 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,436.67	1,436.67	591.59
26 05 46 00-0271 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,627.18	1,627.18	668.27
26 05 46 00-0272 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....870.27	870.27	328.66
26 05 46 00-0273 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....778.95	778.95	350.57
26 05 46 00-0274 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,495.58	1,495.58	712.09
26 05 46 00-0275 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,073.48	1,073.48	427.26
26 05 46 00-0276 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....692.45	692.45	306.74
26 05 46 00-0277 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,334.42	1,334.42	624.45
26 05 46 00-0278 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....983.17	983.17	317.70
<b>26 05 46 00-0279 15 KV Pole Structure Assemblies</b> (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0280 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....452.08	452.08	208.15
26 05 46 00-0281 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....753.16	753.16	350.57
26 05 46 00-0282 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....833.81	833.81	273.88
26 05 46 00-0283 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....448.82	448.82	142.42
26 05 46 00-0284 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....584.68	584.68	186.24
26 05 46 00-0285 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,061.90	1,061.90	394.39
26 05 46 00-0286 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....820.38	820.38	295.79
26 05 46 00-0287 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,546.28	1,546.28	591.59
26 05 46 00-0288 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,775.47	1,775.47	668.27
26 05 46 00-0289 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....943.34	943.34	328.66
26 05 46 00-0290 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....806.89	806.89	350.57
26 05 46 00-0291 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,523.52	1,523.52	712.09
26 05 46 00-0292 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,129.35	1,129.35	427.26
26 05 46 00-0293 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....720.39	720.39	295.79
26 05 46 00-0294 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,362.36	1,362.36	624.45
26 05 46 00-0295 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,039.04	1,039.04	383.43
<b>26 05 46 00-0296 25 KV Pole Structure Assemblies</b> (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0297 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,199.09	1,199.09	328.66
26 05 46 00-0298 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....713.19	713.19	164.33
26 05 46 00-0299 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,038.60	1,038.60	251.97
26 05 46 00-0300 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,473.76	1,473.76	514.90
26 05 46 00-0301 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,340.10	1,340.10	383.43
26 05 46 00-0302 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....2,250.45	2,250.45	755.91
26 05 46 00-0303 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....2,220.57	2,220.57	854.51
26 05 46 00-0304 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,508.15	1,508.15	498.46
26 05 46 00-0305 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,333.03	1,333.03	498.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 46 00-0306</b>	<b>50 KV Pole Structure Assemblies</b> <small>(26 05 46 00-0261)</small>	
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0307 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,611.39	449.17
26 05 46 00-0308 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	866.37	230.06
26 05 46 00-0309 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,145.14	361.53
26 05 46 00-0310 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	2,178.52	734.00
26 05 46 00-0311 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,662.91	547.76
26 05 46 00-0312 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	3,220.50	1,095.53
26 05 46 00-0313 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	3,762.68	1,216.03
26 05 46 00-0314 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,900.89	591.59
26 05 46 00-0315 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,969.01	684.70
26 05 46 00-0316 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....	1,888.46	646.36
<b>26 05 46 00-0317</b>	<b>Overhead To Underground Conversion Structures</b> <small>(26 05 46 00-0221)</small>	
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
<b>26 05 46 00-0318</b>	<b>5 KV Structures</b> <small>(26 05 46 00-0317)</small>	
Note: Excludes pole.		
26 05 46 00-0319 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,196.03	2,191.05
26 05 46 00-0320 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,196.03	2,191.05
26 05 46 00-0321 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,196.03	2,191.05
26 05 46 00-0322 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,196.03	2,191.05
<b>26 05 46 00-0323</b>	<b>15 KV Structures</b> <small>(26 05 46 00-0317)</small>	
Note: Excludes pole.		
26 05 46 00-0324 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,297.15	2,191.05
26 05 46 00-0325 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,297.15	2,191.05
26 05 46 00-0326 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,297.15	2,191.05
26 05 46 00-0327 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,297.15	2,191.05
<b>26 05 46 00-0328</b>	<b>25 KV Structures</b> <small>(26 05 46 00-0317)</small>	
Note: Excludes pole.		
26 05 46 00-0329 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,407.47	2,191.05
26 05 46 00-0330 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,407.47	2,191.05
26 05 46 00-0331 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,407.47	2,191.05
26 05 46 00-0332 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles .....	4,407.47	2,191.05
<b>26 05 46 00-0333</b>	<b>Transformer Stations</b> <small>(26 05 46 00-0221)</small>	
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
<b>26 05 46 00-0334</b>	<b>5 KV Station</b> <small>(26 05 46 00-0333)</small>	
26 05 46 00-0335 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole .....	5,742.67	2,920.67
26 05 46 00-0336 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole .....	6,446.71	3,286.58
26 05 46 00-0337 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole .....	7,150.76	3,651.39
26 05 46 00-0338 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole .....	7,150.76	3,651.39
26 05 46 00-0339 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole .....	5,742.67	2,920.67
<b>26 05 46 00-0340</b>	<b>15 KV Stations</b> <small>(26 05 46 00-0333)</small>	
26 05 46 00-0341 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole .....	5,843.80	2,919.85
26 05 46 00-0342 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole .....	6,547.84	3,286.58
26 05 46 00-0343 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole .....	7,251.88	3,651.39
26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole .....	7,251.88	3,651.39
26 05 46 00-0345 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole .....	5,843.80	2,920.67
<b>26 05 46 00-0346</b>	<b>25 KV Stations</b> <small>(26 05 46 00-0333)</small>	
26 05 46 00-0347 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole .....	5,954.11	2,920.67
26 05 46 00-0348 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole .....	6,658.15	3,286.58
26 05 46 00-0349 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole .....	7,362.19	3,651.39
26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole .....	7,362.19	3,651.39
26 05 46 00-0351 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole .....	5,954.11	2,920.67
<b>26 05 53 Identification for Electrical Systems</b> <small>(26 05)</small>		
<b>26 05 53 00-0001</b>	<b>Conduit Markers Pressure-Sensitive</b> <small>(26 05 53)</small>	
Note: Stick-on, includes arrow tape.		
26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	10.63	
26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on .....	11.14	
26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on .....	12.16	
26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on .....	12.36	
26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	12.56	
26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on .....	12.87	



**26 Electrical****26 05 Common Work Results For Electrical****26 05 53 Identification for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 53 00-0008	EA		2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	14.64	
26 05 53 00-0009	EA		3" Outside Diameter Pressure Sensitive Marker Stick-on .....	15.04	
26 05 53 00-0010	EA		3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	15.35	
26 05 53 00-0011	EA		4" Outside Diameter Pressure Sensitive Marker Stick-on .....	15.66	
26 05 53 00-0012	EA		4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	16.29	
26 05 53 00-0013	EA		5" Outside Diameter Pressure Sensitive Marker Stick-on .....	16.97	
26 05 53 00-0014	EA		6" Outside Diameter Pressure Sensitive Marker Stick-on .....	17.57	
26 05 53 00-0015	EA		7" Outside Diameter Pressure Sensitive Marker Stick-on .....	18.18	
26 05 53 00-0016	EA		8" Outside Diameter Pressure Sensitive Marker Stick-on .....	19.67	
26 05 53 00-0017	EA		10" Outside Diameter Pressure Sensitive Marker Stick-on .....	20.79	
<b>26 05 53 00-0018</b>			<b>Labeling Electrical Wires <small>(26 05 53)</small></b>		
			Note: Self-adhesive vinly coated white cloth		
26 05 53 00-0019	EA		Labeling Wire .....	3.18	
<b>26 05 53 00-0020</b>			<b>Equipment Labeling <small>(26 05 53)</small></b>		
26 05 53 00-0021	EA		Label Both Ends Of One 4 Pair Cable.....	20.03	
26 05 53 00-0022	EA		Label single gang face plate (2 labels required).....	16.02	
26 05 53 00-0023	EA		Label two gang face plate (4 labels required) .....	24.03	
26 05 53 00-0024	EA		Label both ends of a Siamese (dual 4 Pair cable).....	20.03	
<b>26 05 83 Wiring Connections <small>(26 05)</small></b>					
<b>26 05 83 00-0001</b>			<b>Tape Wrapped Compression Connectors <small>(26 05 83)</small></b>		
26 05 83 00-0002	EA		#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	13.48	4.58
26 05 83 00-0003	EA		#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	14.77	5.09
26 05 83 00-0004	EA		#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	15.97	5.60
26 05 83 00-0005	EA		1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	18.46	6.10
26 05 83 00-0006	EA		2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	19.86	6.61
26 05 83 00-0007	EA		3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	22.01	7.12
26 05 83 00-0008	EA		4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	23.59	7.63
26 05 83 00-0009	EA		250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	25.69	8.13
26 05 83 00-0010	EA		300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	28.42	9.16
26 05 83 00-0011	EA		350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	29.84	9.67
26 05 83 00-0012	EA		400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	33.16	10.18
26 05 83 00-0013	EA		500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	36.07	10.68
26 05 83 00-0014	EA		750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	40.29	11.70
26 05 83 00-0015	EA		1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts .....	46.72	13.22
<b>26 05 83 00-0016</b>			<b>One Hole Compression Lugs <small>(26 05 83)</small></b>		
26 05 83 00-0017	EA		#22-18 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	17.56	13.22
26 05 83 00-0018	EA		#16-14 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	17.68	13.22
26 05 83 00-0019	EA		#12-10 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	20.00	14.25
26 05 83 00-0020	EA		#8 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	24.77	15.77
26 05 83 00-0021	EA		#6 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	34.79	20.35
26 05 83 00-0022	EA		#4 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	40.72	20.35
26 05 83 00-0023	EA		#2 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	46.86	20.35
26 05 83 00-0024	EA		1/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	57.70	30.52
26 05 83 00-0025	EA		2/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	67.61	30.52
26 05 83 00-0026	EA		3/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	79.11	30.52
26 05 83 00-0027	EA		4/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug .....	95.37	40.69
26 05 83 00-0028	EA		250 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	113.10	61.04
26 05 83 00-0029	EA		300 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	129.39	61.04
26 05 83 00-0030	EA		350 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	139.06	61.04
26 05 83 00-0031	EA		400 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	151.47	71.21
26 05 83 00-0032	EA		500 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	165.60	71.21
26 05 83 00-0033	EA		750 MCM Low Voltage (To 600 Volts) One Hole Compression Lug .....	179.96	81.39
26 05 83 00-0034	EA		1,000 MCM Compression Lugs, 1 Hole, Low Voltage, To 600 Volts .....	211.64	91.56
<b>26 05 83 00-0035</b>			<b>Two Hole Compression Lugs <small>(26 05 83)</small></b>		
26 05 83 00-0036	EA		#8 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	35.85	17.29
26 05 83 00-0037	EA		#6 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	38.50	18.41
26 05 83 00-0038	EA		#4 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	40.57	18.41
26 05 83 00-0039	EA		#2 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	46.69	21.16
26 05 83 00-0040	EA		1/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	57.52	26.45
26 05 83 00-0041	EA		2/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	67.43	31.44
26 05 83 00-0042	EA		3/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	78.91	36.83
26 05 83 00-0043	EA		4/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug .....	95.14	44.66
26 05 83 00-0044	EA		250 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	112.83	53.01
26 05 83 00-0045	EA		300 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	129.08	60.53
26 05 83 00-0046	EA		350 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	138.74	65.21
26 05 83 00-0047	EA		400 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	151.08	70.61
26 05 83 00-0048	EA		500 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	165.16	77.11
26 05 83 00-0049	EA		750 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	180.51	83.62
26 05 83 00-0050	EA		1,000 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug .....	223.47	101.74





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 83 00-0051 Tape Wrapped Split Bolt Connectors <small>(26 05 83)</small></b>						
				EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	53.52	40.69
				EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	58.85	43.75
				EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	67.11	45.78
				EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	77.92	50.86
				EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	92.00	55.95
				EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	103.21	61.04
				EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	129.02	66.13
				EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	138.42	71.21
				EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	145.91	76.30
				EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	166.55	83.93
				EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	187.18	122.08
				EA 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	205.06	101.74
				EA 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	222.93	137.34
				EA 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	247.49	142.43
				EA 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	280.44	152.60
<b>26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone <small>(26 05 83)</small></b>						
				EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	88.68	40.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.36	
				EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	98.66	40.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
				EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	136.57	61.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.91	
				EA 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	155.01	61.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.13	
				EA 300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	185.50	76.30
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.24	
				EA 500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	259.29	101.74
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.59	
<b>26 05 83 00-0074 Terminal Blocks <small>(26 05 83)</small></b>						
				Note: Labor excludes wire termination.		
				EA Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	896.41	376.42
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.08	
				EA #22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	231.54	50.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.86	
				EA #8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	255.65	50.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.19	
<b>26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small></b>						
				EA #8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	35.84	18.41
				EA #6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	38.50	18.41
				EA #4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	40.57	18.41
				EA #2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	46.69	21.16
				EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	57.52	26.45
				EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	67.43	31.44
				EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	78.91	36.83
				EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	95.14	44.66
				EA 250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	112.83	53.01
				EA 300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	129.07	60.53
				EA 350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	138.74	65.21
				EA 400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	151.08	70.61
				EA 500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	165.16	77.11
				EA 750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	165.55	77.11
				EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	35.84	18.41
				EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	38.50	18.41
				EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	40.57	18.41
				EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	46.69	21.16
				EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	57.52	26.45
				EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	67.43	31.44
				EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	78.91	36.83
				EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	95.14	44.66
				EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	112.83	53.01
				EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	129.07	60.53
				EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	138.74	65.21
				EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	151.08	70.61
				EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	165.16	77.11
				EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	165.55	77.11
<b>26 05 83 00-0107 Copper Mechanical Lugs <small>(26 05 83)</small></b>						
				EA #8 Copper Mechanical Lugs.....	27.85	12.71
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.63	
				EA #6 Copper Mechanical Lugs.....	33.48	15.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.22	

**26 Electrical**

**26 05 Common Work Results For Electrical**

**26 05 83 Wiring Connections**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0110 EA #4 Copper Mechanical Lugs .....38.70		17.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.68	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs .....50.29		22.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.62	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs .....67.70		30.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs .....80.14		35.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.27	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs .....93.27		40.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs .....105.75		45.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs .....120.25		50.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs .....134.50		55.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.59	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs .....148.69		61.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs .....162.77		66.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.65	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs .....177.10		71.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.73	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs .....200.98		81.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.68	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs .....227.36		91.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.94	
<b>26 05 83 00-0123 Gel Connectors (26 05 83)</b>		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit .....41.89		
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.06	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit .....41.14		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.67	
<b>26 05 83 00-0126 Other Connections (26 05 83)</b>		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape .....10.10		4.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape .....10.18		4.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape .....10.26		4.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.79	
<b>26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)</b>		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
<b>26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)</b>		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....68.26		25.44
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....67.67		25.44
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....78.56		30.52
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....95.10		38.15
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....96.27		38.15
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....96.50		38.15
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....100.35		38.15
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....126.26		50.86
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....130.58		50.86
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....165.70		63.59
<b>26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)</b>		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....67.67		25.44
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....78.56		30.52
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....95.10		38.15
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....96.27		38.15
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....96.50		38.15
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....100.35		38.15
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....126.26		50.86
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....130.58		50.86
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....165.70		63.59
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....171.54		63.59
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....219.98		76.30
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....228.86		76.30
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....314.40		101.74
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....394.45		127.17
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....462.39		152.60
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....553.64		178.03
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....637.44		203.47
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....789.51		254.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	930.36	302.66
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	1,106.74	353.02
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	1,553.38	529.44
<b>26 05 83 00-0164 AC Three Phase, 460 Volt</b> <small>(26 05 83 00-0130)</small>		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	67.67	25.44
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	78.56	30.52
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	95.10	38.15
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	96.27	38.15
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	96.50	38.15
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	100.35	38.15
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	126.26	50.86
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	130.58	50.86
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	165.70	63.59
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	171.54	63.59
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	219.99	76.30
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	228.85	76.30
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	314.40	101.74
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	394.76	127.37
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	462.39	152.60
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	553.64	178.03
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	637.44	203.47
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	789.51	254.33
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	930.64	302.76
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	1,107.13	353.22
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	1,554.26	529.84

<b>26 05 83 00-0186 AC Single Phase, 120 Volt</b> <small>(26 05 83 00-0130)</small>		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	68.27	25.44

<b>26 05 83 00-0188 Motor Moisture Sensor</b> <small>(26 05 83 00-0130)</small>		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding .....	620.90	

## 26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

### 26 09 23 Lighting Control Devices (26 09)

<b>26 09 23 00-0001 Lighting Contactors</b> <small>(26 09 23)</small>		
<small>Note: Up to 600 volt.</small>		

<b>26 09 23 00-0002 Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0001)</small>		
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<b>26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0002)</small>		
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<b>26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
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26 09 23 00-0005 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	348.81	81.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.83	
26 09 23 00-0006 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	426.40	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0007 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	783.18	142.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.46	
26 09 23 00-0008 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	1,204.86	193.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.98	
26 09 23 00-0009 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	2,432.96	254.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.60	

<b>26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
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26 09 23 00-0011 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	393.73	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0012 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	468.22	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0013 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	852.49	162.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.67	
26 09 23 00-0014 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	1,303.82	213.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.19	
26 09 23 00-0015 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	2,615.18	279.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.86	

<b>26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
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26 09 23 00-0017 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	460.45	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0018 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	547.34	111.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.15	
26 09 23 00-0019 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	1,024.03	183.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.88	

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0020 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	1,548.44	233.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.39	
26 09 23 00-0021 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor .....	3,311.56	305.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.12	
<b>26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)</b>		
<b>26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)</b>		
26 09 23 00-0024 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	546.57	81.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.83	
26 09 23 00-0025 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	688.60	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0026 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	1,306.03	142.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.46	
26 09 23 00-0027 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	1,947.48	193.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.98	
26 09 23 00-0028 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	3,700.49	254.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.60	
<b>26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)</b>		
26 09 23 00-0030 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	570.82	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0031 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	730.41	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0032 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	1,376.88	162.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.67	
26 09 23 00-0033 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	2,045.94	213.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.19	
26 09 23 00-0034 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	3,882.19	279.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.86	
<b>26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)</b>		
26 09 23 00-0036 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	618.54	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0037 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	809.54	111.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.15	
26 09 23 00-0038 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	1,752.35	183.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.88	
26 09 23 00-0039 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	2,494.48	233.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.39	
26 09 23 00-0040 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor .....	5,140.78	305.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.12	
<b>26 09 23 00-0041 Mechanically Held, Lighting Contactors (26 09 23 00-0001)</b>		
<b>26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)</b>		
<b>26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)</b>		
26 09 23 00-0044 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	492.94	81.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.83	
26 09 23 00-0045 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	560.31	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0046 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	1,043.84	142.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.46	
26 09 23 00-0047 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	1,451.72	193.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.98	
26 09 23 00-0048 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	3,234.37	254.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.60	
<b>26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)</b>		
26 09 23 00-0050 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	529.48	91.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 09 23 00-0051 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	603.15	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0052 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	1,114.69	162.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.67	
26 09 23 00-0053 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	1,551.19	213.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.19	
26 09 23 00-0054 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	3,633.79	279.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.86	
<b>26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)</b>		
26 09 23 00-0056 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	573.29	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0057 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....	644.96	111.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.15	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0058 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,300.03 109.88	183.12
26 09 23 00-0059 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,810.63 140.39	233.99
26 09 23 00-0060 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,368.51 183.12	305.21
<b>26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> (26 09 23 00-0041)		
<b>26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	715.84 48.83	81.39
26 09 23 00-0064 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	822.50 54.94	91.56
26 09 23 00-0065 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,568.23 85.46	142.43
26 09 23 00-0066 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,194.34 115.98	193.29
26 09 23 00-0067 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,500.87 152.60	254.33
<b>26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> (26 09 23 00-0061)		
26 09 23 00-0069 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	759.64 54.94	91.56
26 09 23 00-0070 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	865.34 61.04	101.74
26 09 23 00-0071 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,639.07 97.67	162.78
26 09 23 00-0072 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,294.33 128.19	213.64
26 09 23 00-0073 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,901.32 167.86	279.77
<b>26 09 23 00-0074 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> (26 09 23 00-0061)		
26 09 23 00-0075 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	806.24 61.04	101.74
26 09 23 00-0076 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	907.16 67.15	111.90
26 09 23 00-0077 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,028.34 109.88	183.12
26 09 23 00-0078 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,756.68 140.39	233.99
26 09 23 00-0079 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,160.42 183.12	305.21
<b>26 09 23 00-0080 Combination Lighting Contactors</b> (26 09 23) Note: Up to 600 volt.		
<b>26 09 23 00-0081 Electrically Held, Combination Lighting Contactors</b> (26 09 23 00-0080)		
<b>26 09 23 00-0082 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors</b> (26 09 23 00-0081)		
<b>26 09 23 00-0083 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors</b> (26 09 23 00-0082)		
26 09 23 00-0084 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	925.30 67.15	111.90
26 09 23 00-0085 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,452.88 107.43	179.06
26 09 23 00-0086 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,314.57 141.01	235.01
26 09 23 00-0087 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,155.11 184.65	307.75
<b>26 09 23 00-0088 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors</b> (26 09 23 00-0081)		
<b>26 09 23 00-0089 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors</b> (26 09 23 00-0088)		
26 09 23 00-0090 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,623.72 67.15	111.90



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0091 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,529.25	179.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.43	
26 09 23 00-0092 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,192.86	235.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.01	
26 09 23 00-0093 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	6,557.78	307.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.65	
<b>26 09 23 00-0094 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0090)</b>		
<b>26 09 23 00-0095 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)</b>		
<b>26 09 23 00-0096 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0095)</b>		
26 09 23 00-0097 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,005.03	111.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.15	
26 09 23 00-0098 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,728.87	179.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.43	
26 09 23 00-0099 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,576.00	235.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.01	
26 09 23 00-0100 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,897.99	307.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.65	
<b>26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)</b>		
<b>26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0101)</b>		
26 09 23 00-0103 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,704.22	111.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.15	
26 09 23 00-0104 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,806.78	179.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.43	
26 09 23 00-0105 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,455.05	235.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.01	
26 09 23 00-0106 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	7,300.66	307.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.65	
<b>26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket (26 09 23)</b>		
26 09 23 00-0108 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket .....	122.49	26.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.90	
26 09 23 00-0109 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket .....	134.01	26.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.90	
<b>26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) (26 09 23)</b>		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,066.95	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	1,360.22	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	1,658.71	101.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.04	
<b>26 09 23 00-0114 Dimming Module Contol (Leviton) (26 09 23)</b>		
26 09 23 00-0115 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0) .....	137.81	12.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.64	
<b>26 09 23 00-0116 Light Control Panels (26 09 23)</b>		
<b>26 09 23 00-0117 Lighting Control Panels (Watt Stopper) (26 09 23 00-0116)</b>		
<b>26 09 23 00-0118 Lighting Control Panels (Watt Stopper) (26 09 23 00-0117)</b>		
26 09 23 00-0119 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4).....	1,492.14	142.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.57	
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8).....	1,402.73	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.69	
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G).....	1,574.24	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0122 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8).....	2,341.76	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0123 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G).....	2,543.12	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0124 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4).....	1,657.08	142.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.57</i>	
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8).....	1,778.05	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G).....	1,979.20	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0127 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8).....	2,422.23	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0128 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G).....	2,623.58	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
<b>26 09 23 00-0129 Accessories For Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small></b>		
26 09 23 00-0130 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2).....	146.56	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>15.28</i>	
26 09 23 00-0131 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W).....	112.92	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>12.23</i>	
26 09 23 00-0132 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2).....	61.18	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>12.23</i>	
<b>26 09 23 00-0133 Lighting Control Panels (Synergy) <small>(26 09 23 00-0116)</small></b>		
<b>26 09 23 00-0134 Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small></b>		
26 09 23 00-0135 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S).....	1,687.80	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
<b>26 09 23 00-0136 Accessories For Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small></b>		
26 09 23 00-0137 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	406.57	25.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>15.28</i>	
26 09 23 00-0138 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	157.67	10.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.11</i>	
26 09 23 00-0139 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	95.17	15.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.17</i>	
<b>26 09 23 00-0140 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0116)</small></b>		
<b>26 09 23 00-0141 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0140)</small></b>		
26 09 23 00-0142 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	1,390.99	152.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.69</i>	
26 09 23 00-0143 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	1,878.46	163.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.80</i>	
26 09 23 00-0144 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	2,435.01	173.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>103.91</i>	
<b>26 09 23 00-0145 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) <small>(26 09 23 00-0116)</small></b>		
26 09 23 00-0146 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	955.43	142.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.57</i>	
26 09 23 00-0147 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z).....	1,077.28	142.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.57</i>	
26 09 23 00-0148 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z).....	1,199.13	142.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>85.57</i>	
<b>26 09 23 00-0149 Power Filters <small>(26 09 23 00-0116)</small></b>		
26 09 23 00-0150 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....	36,180.03	847.77
26 09 23 00-0151 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....	21,427.87	368.59
<b>26 09 23 00-0152 Signal Filters <small>(26 09 23 00-0116)</small></b>		
26 09 23 00-0153 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....	16,484.70	770.75
26 09 23 00-0154 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case.....	11,287.33	471.04
26 09 23 00-0155 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	6,294.38	273.47
26 09 23 00-0156 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	8,593.34	273.47
<b>26 09 23 00-0157 Lighting Control Devices (Encelium) <small>(26 09 23)</small></b>		
26 09 23 00-0158 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D).....	9,289.34	101.87
Note: Excludes GB II cable.		

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0159 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U).....	4,279.60	101.87
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0160 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) .....	2,256.41	101.87
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0161 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT).....	9,343.62	101.87
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0162 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) .....	80.58	12.73
Note: Excludes GB II cable.		
26 09 23 00-0163 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) .....	120.67	12.73
Note: Excludes GB II cable.		
26 09 23 00-0164 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) .....	157.46	25.47
Note: Excludes GB II cable.		
26 09 23 00-0165 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR) .....	186.93	25.47
Note: Excludes GB II cable.		
26 09 23 00-0166 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK) .....	106.05	25.47
Note: Excludes GB II cable.		
26 09 23 00-0167 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR) .....	146.14	25.47
Note: Excludes GB II cable.		
26 09 23 00-0168 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700).....	360.24	50.94
Note: Excludes cable.		
26 09 23 00-0169 EA Rack Mounted, Wired Power Bar (Encelium PWR-700) .....	277.89	50.94
26 09 23 00-0170 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800).....	484.90	50.94
26 09 23 00-0171 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	184.83	50.94
26 09 23 00-0172 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042).....	540.05	50.94
Note: Excludes cable.		
26 09 23 00-0173 EA Wired BACnet Interface (Encelium BIF-600).....	5,471.51	203.75
Note: Excludes cable.		
26 09 23 00-0174 EA Wired AV Interface (Encelium EN-SW-AVINT) .....	3,992.62	50.94
Note: Excludes cable.		
26 09 23 00-0175 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH) .....	155.79	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0176 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH).....	188.36	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0177 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....	180.50	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0178 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH).....	188.36	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0179 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....	180.50	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0180 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT).....	138.19	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0181 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....	188.36	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0182 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT).....	180.50	12.73
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0183 EA Wired Key Switch Controller (Encelium KSW-300).....	135.02	12.73
Note: Excludes GB II cable.		
26 09 23 00-0184 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH).....	61.74	12.73
Note: Includes white finish.		
26 09 23 00-0185 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2).....	59.18	25.47
26 09 23 00-0186 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2) .....	59.53	25.47
26 09 23 00-0187 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2) .....	62.30	25.47
26 09 23 00-0188 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2) .....	65.04	25.47
26 09 23 00-0189 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2) .....	68.31	25.47
26 09 23 00-0190 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2) .....	71.26	25.47
26 09 23 00-0191 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2) .....	74.88	25.47
26 09 23 00-0192 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2) .....	91.26	25.47
26 09 23 00-0193 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2) .....	505.16	25.47
26 09 23 00-0194 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	134.04	25.47
26 09 23 00-0195 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	647.77	25.47
26 09 23 00-0196 EA Indoor Wired Photo Sensor (Encelium PHS-700) .....	400.29	50.94
Note: Excludes GB II cable.		
26 09 23 00-0197 EA Outdoor Wired Photo Sensor (Encelium PHS-800).....	400.29	50.94
Note: Excludes GB II cable.		
26 09 23 00-0198 EA Skylight Wired Photo Sensor (Encelium PHS-900).....	400.29	50.94
Note: Excludes GB II cable.		
26 09 23 00-0199 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450) .....	222.84	50.94
Note: Excludes GB II cable.		
26 09 23 00-0200 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500) .....	216.89	50.94
Note: Excludes GB II cable.		
26 09 23 00-0201 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00) .....	220.86	50.94
Note: Excludes GB II cable.		
26 09 23 00-0202 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	240.69	50.94
Note: Excludes GB II cable.		
26 09 23 00-0203 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	220.86	50.94
Note: Excludes GB II cable.		
26 09 23 00-0204 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV).....	181.20	50.94
Note: Excludes GB II cable.		
26 09 23 00-0205 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPPEM24V) .....	190.27	50.94
Note: Excludes GB II cable.		
26 09 23 00-0206 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V) .....	190.27	50.94
Note: Excludes GB II cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0207 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLENS360) ..... Note: Excludes GB II cable.	114.72	50.94
26 09 23 00-0208 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24) ..... Note: Excludes GB II cable.	225.77	50.94
26 09 23 00-0209 EA Hallway, Wired Occupancy Sensor (Encelium HW-13)..... Note: Excludes GB II cable.	306.61	50.94
26 09 23 00-0210 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500)..... Note: Excludes GB II cable.	272.42	50.94
26 09 23 00-0211 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000)..... Note: Excludes GB II cable.	288.28	50.94
26 09 23 00-0212 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000)..... Note: Excludes GB II cable.	296.22	50.94
26 09 23 00-0213 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM- 1200)..... Note: Excludes GB II cable.	270.43	50.94
26 09 23 00-0214 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV)..... Note: Excludes GB II cable.	230.78	50.94
26 09 23 00-0215 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) ..... Note: Excludes GB II cable.	280.95	50.94
26 09 23 00-0216 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W)..... Note: Excludes GB II cable.	278.87	50.94
26 09 23 00-0217 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) ..... Note: Excludes GB II cable.	305.93	50.94
26 09 23 00-0218 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) ..... Note: Excludes GB II cable.	297.61	50.94
26 09 23 00-0219 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24) ..... Note: Excludes GB II cable.	317.94	50.94
26 09 23 00-0220 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV)..... Note: Excludes GB II cable.	297.69	50.94
26 09 23 00-0221 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT)..... Note: Excludes GB II cable.	297.69	50.94
26 09 23 00-0222 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	206.30	50.94
26 09 23 00-0223 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	218.77	50.94
26 09 23 00-0224 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	359.97	50.94
26 09 23 00-0225 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	382.85	50.94
26 09 23 00-0226 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	290.52	50.94
26 09 23 00-0227 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	301.58	50.94
26 09 23 00-0228 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2)..... Note: Excludes GB II cable and enclosure.	838.36	101.87
26 09 23 00-0229 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V)..... Note: Excludes GB II cable.	2,673.47	407.49
26 09 23 00-0230 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V)..... Note: Excludes GB II cable.	3,788.58	407.49
26 09 23 00-0231 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V)..... Note: Excludes GB II cable.	4,903.67	407.49
26 09 23 00-0232 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2) ..... Note: Excludes GB II cable.	419.17	50.94
26 09 23 00-0233 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2)..... Note: Excludes GB II cable.	475.84	50.94
26 09 23 00-0234 EA Wireless Manager (Encelium EN-WM-ZB-P3D)..... Note: Includes white finish.	1,235.10	50.94
26 09 23 00-0235 EA Wireless Control Module (Encelium EN-WCM-ZB).....	179.37	25.47
26 09 23 00-0236 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....	209.59	25.47
26 09 23 00-0237 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	210.35	25.47
26 09 23 00-0238 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR).....	217.47	25.47
26 09 23 00-0239 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0240 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0241 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0242 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0243 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0244 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	158.81	12.73
26 09 23 00-0245 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	351.18	50.94
26 09 23 00-0246 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	230.30	50.94
26 09 23 00-0247 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	230.30	50.94
26 09 23 00-0248 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	260.52	50.94
26 09 23 00-0249 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	260.52	50.94
26 09 23 00-0250 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0251 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0252 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	153.90	12.73
26 09 23 00-0253 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)..... Note: Includes white finish.	153.90	12.73



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0254 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0255 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	158.81	12.73
Note: Includes white finish.		
26 09 23 00-0256 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	351.18	50.94
26 09 23 00-0257 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	153.90	12.73
26 09 23 00-0258 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH).....	153.90	12.73
26 09 23 00-0259 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	153.90	12.73
26 09 23 00-0260 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	158.81	12.73
26 09 23 00-0261 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	351.18	50.94
26 09 23 00-0262 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	230.30	50.94
26 09 23 00-0263 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	230.30	50.94
26 09 23 00-0264 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	260.52	50.94
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	260.52	50.94
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	153.90	12.73
Note: Includes white finish.		
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	158.81	12.73
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	351.18	50.94
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	119.24	50.94
26 09 23 00-0274 EA Emergency Lighting Control Unit (WattStopper ELCU-200).....	208.22	45.85
26 09 23 00-0275 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	450.65	50.94
<b>26 09 23 00-0276 Lighting Control Sensors <small>(26 09 23)</small></b>		
26 09 23 00-0277 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	237.77	22.92
26 09 23 00-0278 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI).....	237.77	22.92
26 09 23 00-0279 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	209.91	22.92
26 09 23 00-0280 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U).....	65.14	15.28
26 09 23 00-0281 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA).....	6.26	
26 09 23 00-0282 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	41.52	
26 09 23 00-0283 EA Clip for Tube (LG BKTU015121.BUAAWAA).....	8.29	
<b>26 09 23 00-0284 Radio Controlled Devices (Lutron) <small>(26 09 23)</small></b>		
<b>26 09 23 00-0285 Tabletop Transmitters For Radio Controlled Devices <small>(26 09 23 00-0284)</small></b>		
<b>26 09 23 00-0286 Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0285)</small></b>		
26 09 23 00-0287 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	303.02	15.28
26 09 23 00-0288 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	391.84	15.28
26 09 23 00-0289 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	491.76	15.28
<b>26 09 23 00-0290 Dimmable Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0285)</small></b>		
26 09 23 00-0291 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	303.02	15.28
26 09 23 00-0292 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	358.53	15.28
26 09 23 00-0293 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	491.76	15.28
26 09 23 00-0294 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	303.02	15.28
26 09 23 00-0295 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	391.84	15.28
26 09 23 00-0296 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	491.76	15.28
<b>26 09 23 00-0297 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0285)</small></b>		
26 09 23 00-0298 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	391.84	15.28
26 09 23 00-0299 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	491.76	15.28
26 09 23 00-0300 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	491.76	15.28
<b>26 09 23 00-0301 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0285)</small></b>		
26 09 23 00-0302 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....	303.02	15.28
26 09 23 00-0303 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	391.84	15.28
26 09 23 00-0304 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	358.53	15.28





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0305 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH) .....	436.24	15.28
26 09 23 00-0306 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH) .....	391.84	15.28
26 09 23 00-0307 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH) .....	469.55	15.28
26 09 23 00-0308 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH) .....	391.84	15.28
<b>26 09 23 00-0309 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0285)</small>		
26 09 23 00-0310 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH) .....	303.02	15.28
26 09 23 00-0311 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH) .....	391.84	15.28
26 09 23 00-0312 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH) .....	391.84	15.28
26 09 23 00-0313 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH) .....	491.76	15.28
26 09 23 00-0314 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH) .....	391.84	15.28
26 09 23 00-0315 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH) .....	491.76	15.28
<b>26 09 23 00-0316 Output Switch Closure Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0285)</small>		
26 09 23 00-0317 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH) .....	303.02	15.28
26 09 23 00-0318 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH) .....	391.84	15.28
26 09 23 00-0319 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH) .....	491.76	15.28
<b>26 09 23 00-0320 Accessories For Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0285)</small>		
26 09 23 00-0321 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH) .....	69.88	15.28
<b>26 09 23 00-0322 Wall Box Transmitters For Radio Controlled Devices</b> <small>(26 09 23 00-0284)</small>		
26 09 23 00-0323 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH) .....	280.82	15.28
26 09 23 00-0324 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH) .....	303.02	15.28
26 09 23 00-0325 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH) .....	303.02	15.28
26 09 23 00-0326 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH) .....	303.02	15.28
26 09 23 00-0327 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH) .....	303.02	15.28
26 09 23 00-0328 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH) .....	303.02	15.28
<b>26 09 23 00-0329 Interfaces For Radio Controlled Devices</b> <small>(26 09 23 00-0284)</small>		
26 09 23 00-0330 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000) .....	280.82	15.28
26 09 23 00-0331 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000) .....	280.82	15.28
26 09 23 00-0332 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000) .....	280.82	15.28
26 09 23 00-0333 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8) .....	562.81	15.28
26 09 23 00-0334 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232) .....	802.61	15.28
26 09 23 00-0335 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI) .....	802.61	15.28
<b>26 09 23 00-0336 Fluorescent Controllers For Radio Controlled Devices</b> <small>(26 09 23 00-0284)</small>		
26 09 23 00-0337 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW) .....	358.53	15.28
26 09 23 00-0338 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F) .....	402.94	15.28
26 09 23 00-0339 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC) .....	469.55	15.28
<b>26 09 23 00-0340 AC Motor Group Controllers For Radio Controlled Devices</b> <small>(26 09 23 00-0284)</small>		
26 09 23 00-0341 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC) .....	525.06	15.28
26 09 23 00-0342 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC) .....	719.35	15.28
<b>26 09 23 00-0343 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®)</b> <small>(26 09 23)</small>		
<b>26 09 23 00-0344 RF Wireless Technology, Switches (Lutron® Maestro Wireless®)</b> <small>(26 09 23 00-0343)</small>		
26 09 23 00-0345 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS) .....	91.86	20.37
26 09 23 00-0346 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120) .....	106.00	20.37
26 09 23 00-0347 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV) .....	158.70	20.37
26 09 23 00-0348 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS) .....	68.28	20.37

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0349 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	80.63	20.37
26 09 23 00-0350 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....	73.46	20.37
26 09 23 00-0351 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....	86.06	20.37
<b>26 09 23 00-0352 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0343)</b>		
26 09 23 00-0353 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....	88.60	20.37
26 09 23 00-0354 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	95.13	20.37
26 09 23 00-0355 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	111.44	20.37
26 09 23 00-0356 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	121.63	25.47
26 09 23 00-0357 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	143.52	20.37
26 09 23 00-0358 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	55.70	20.37
26 09 23 00-0359 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	64.68	20.37
26 09 23 00-0360 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	58.97	20.37
26 09 23 00-0361 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	67.94	20.37
26 09 23 00-0362 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	169.19	35.65
<b>26 09 23 00-0363 Occupancy Sensors (Watt Stopper) (26 09 23)</b> Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0364 Occupancy Sensors (26 09 23 00-0363)</b> Note: Exclude boxes.		
<b>26 09 23 00-0365 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0364)</b>		
<b>26 09 23 00-0366 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0365)</b>		
26 09 23 00-0367 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	105.10	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0368 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200).....	123.86	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
<b>26 09 23 00-0369 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0365)</b>		
26 09 23 00-0370 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....	86.96	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0371 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS).....	81.27	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0372 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100).....	91.89	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0373 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	106.23	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0374 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD).....	105.05	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
<b>26 09 23 00-0375 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0365)</b>		
26 09 23 00-0376 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	152.44	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 09 23 00-0377 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200).....	164.31	10.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
<b>26 09 23 00-0378 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0365)</b>		
26 09 23 00-0379 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	6.23	2.55
26 09 23 00-0380 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.18	2.55
26 09 23 00-0381 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.18	2.55
<b>26 09 23 00-0382 Ceiling Mounted Occupancy Sensors (26 09 23 00-0364)</b>		
<b>26 09 23 00-0383 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0382)</b>		
<b>26 09 23 00-0384 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0383)</b>		
26 09 23 00-0385 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	139.78	22.92
26 09 23 00-0386 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	160.18	22.92
26 09 23 00-0387 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	180.75	22.92
26 09 23 00-0388 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H).....	178.89	22.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 09 23 00-0389</b>	<b>32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0383)</small></b>	
26 09 23 00-0390 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605) .....	151.86	22.92
26 09 23 00-0391 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	172.56	22.92
26 09 23 00-0392 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	192.16	22.92
26 09 23 00-0393 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	195.48	22.92
26 09 23 00-0394 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600) .....	164.23	22.92
26 09 23 00-0395 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100) .....	185.44	22.92
26 09 23 00-0396 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200) .....	206.58	22.92
26 09 23 00-0397 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	212.66	22.92
<b>26 09 23 00-0398</b>	<b>40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0383)</small></b>	
26 09 23 00-0399 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	157.84	22.92
26 09 23 00-0400 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	182.57	22.92
26 09 23 00-0401 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	203.27	22.92
26 09 23 00-0402 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	148.72	22.92
26 09 23 00-0403 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	179.89	22.92
26 09 23 00-0404 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	189.99	22.92
26 09 23 00-0405 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	159.12	22.92
26 09 23 00-0406 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	177.07	22.92
26 09 23 00-0407 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	199.23	22.92
<b>26 09 23 00-0408</b>	<b>Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0382)</small></b>	
26 09 23 00-0409 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR) .....	115.96	22.92
26 09 23 00-0410 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24) .....	118.36	22.92
26 09 23 00-0411 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205) .....	124.07	22.92
26 09 23 00-0412 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355) .....	139.39	22.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.76
26 09 23 00-0413 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	141.25	22.92
26 09 23 00-0414 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	149.26	22.92
26 09 23 00-0415 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300) .....	162.09	22.92
<b>26 09 23 00-0416</b>	<b>Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0382)</small></b>	
26 09 23 00-0417 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355) .....	191.98	22.92
26 09 23 00-0418 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300) .....	219.12	22.92
26 09 23 00-0419 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305) .....	186.22	22.92
<b>26 09 23 00-0420</b>	<b>Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0364)</small></b>	
<b>26 09 23 00-0421</b>	<b>Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small></b>	
26 09 23 00-0422 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3) .....	235.38	22.92
26 09 23 00-0423 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100) .....	235.38	22.92
<b>26 09 23 00-0424</b>	<b>Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small></b>	
26 09 23 00-0425 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	219.12	22.92
<b>26 09 23 00-0426</b>	<b>Occupancy Sensor Power Packs <small>(26 09 23 00-0363)</small></b>	
<b>26 09 23 00-0427</b>	<b>Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small></b>	
26 09 23 00-0428 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	78.69	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.23
26 09 23 00-0429 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	71.80	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.23

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 09 23 00-0430 Auxiliary, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0431 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	66.12	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0432 Universal Voltage, Power Packs For Occupancy Sensors</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0433 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	86.91	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0434 Form C, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0435 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	79.01	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0436 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	79.07	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0437 Two Relay, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0438 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	98.99	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0439 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	100.35	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0440 Occupancy Sensor Power Supplies</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0441 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-100).....	92.04	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0442 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	199.99	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0443 Intelligent, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0444 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	264.06	20.37
<b>26 09 23 00-0445 DIN Rail Mounted, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0426)</small>		
26 09 23 00-0446 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	86.12	20.37
<b>26 09 23 00-0447 Occupancy Sensor Accessories</b> <small>(26 09 23 00-0363)</small>		
<b>26 09 23 00-0448 Protective Cages For Occupancy Sensors</b> <small>(26 09 23 00-0447)</small>		
26 09 23 00-0449 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	49.12	7.64
<b>26 09 23 00-0450 Mounting Brackets For Occupancy Sensors</b> <small>(26 09 23 00-0447)</small>		
26 09 23 00-0451 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	38.99	12.73
Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.		
<b>26 09 23 00-0452 Occupancy/Lighting Logger</b> <small>(26 09 23 00-0447)</small>		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0453 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	363.57	43.30
<b>26 09 23 00-0454 Remove And Reinstall Occupancy Sensors</b> <small>(26 09 23 00-0447)</small>		
26 09 23 00-0455 EA Removal And Reinstallation Of Surface Mounted Occupancy Sensor.....	68.77	
Note: Includes storing and cleaning.		
26 09 23 00-0456 EA Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor.....	30.56	
Note: Includes storing and cleaning.		
<b>26 09 23 00-0457 Digital Time Light Switches</b> <small>(26 09 23 00-0363)</small>		
26 09 23 00-0458 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	78.58	10.19
<b>26 09 23 00-0459 Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0460 Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0459)</small>		
Note: Exclude boxes		
<b>26 09 23 00-0461 Wall Switch Mount Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0460)</small>		
<b>26 09 23 00-0462 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0461)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0463 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	131.39	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
26 09 23 00-0464 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL).....	94.38	10.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0465 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD).....	90.31	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0466 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	90.31	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0467 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P).....	112.89	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0468 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	112.89	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
26 09 23 00-0469 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	136.02	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
26 09 23 00-0470 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD).....	112.89	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<b>26 09 23 00-0471 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch)</b>		
<small>(26 09 23 00-0461)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0472 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	168.40	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
26 09 23 00-0473 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL).....	131.39	10.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0474 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT).....	128.62	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0475 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA).....	128.62	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0476 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P).....	149.89	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11	
26 09 23 00-0477 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	149.89	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
26 09 23 00-0478 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....	161.00	10.19
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<b>26 09 23 00-0479 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch)</b>		
<small>(26 09 23 00-0461)</small>		
26 09 23 00-0480 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	12.50	2.55
26 09 23 00-0481 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	12.50	2.55
26 09 23 00-0482 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3).....	23.60	2.55
26 09 23 00-0483 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	23.60	2.55
<b>26 09 23 00-0484 360 Degree View Occupancy Sensors (Sensor Switch)</b>		
<small>(26 09 23 00-0460)</small>		
<b>26 09 23 00-0485 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch)</b>		
<small>(26 09 23 00-0484)</small>		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0486 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9).....	156.87	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0487	EA		Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9).....	156.87	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Low Voltage Relay Option, Add</i>	10.09	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0488	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9).....	156.87	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Low Voltage Relay Option, Add</i>	10.09	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0489	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....	166.12	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0490	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....	166.12	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0491	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9).....	136.52	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0492	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	203.13	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0493	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	203.13	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0494	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	173.52	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0495	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	156.87	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Low Voltage Relay Option, Add</i>	10.09	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0496	EA		Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	156.87	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Low Voltage Relay Option, Add</i>	10.09	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0497	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	156.87	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Low Voltage Relay Option, Add</i>	10.09	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0498	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	166.12	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0499	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	166.12	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
			<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0500 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	136.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0501 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	203.13	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0502 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	203.13	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0503 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	173.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
<b>26 09 23 00-0504 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)<sup>(26)</sup></b> <small>09 23 00-0484</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0505 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	193.88	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0506 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	193.88	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0507 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	193.88	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0508 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	184.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0509 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	184.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0510 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	155.02	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Photocell Option With Dimming Capability, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0511 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	221.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0512 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	221.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	25.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0513	EA	2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	192.03	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Photozell Option With Dual Zone On/Off, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0514	EA	Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	193.88	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0515	EA	Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	193.88	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0516	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	193.88	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
26 09 23 00-0517	EA	Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	184.63	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0518	EA	Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	184.63	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0519	EA	Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	155.02	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Photozell Option With Dimming Capability, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0520	EA	2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	221.63	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Photozell Option With Dual Zone On/Off, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0521	EA	2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	221.63	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Photozell Option With Dual Zone On/Off, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0522	EA	2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	192.03	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Photozell Option With Dual Zone On/Off, Add</i>	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0523		Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0524		Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0523)</small>		
26 09 23 00-0525	EA	Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	156.87	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Ceiling Mount, Add</i>	16.82	
26 09 23 00-0526	EA	Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	175.37	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell (Inhibit Mode Only) Option, Add</i>	10.09	
		<i>For Ceiling Mount, Add</i>	16.82	
26 09 23 00-0527	EA	Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	212.38	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Ceiling Mount, Add</i>	16.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0528 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	203.13	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Ceiling Mount, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0529 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P) .....	240.14	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Ceiling Mount, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
<b>26 09 23 00-0530 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0523)</small></b>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0531 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16) .....	193.88	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Ceiling Mount, Add</i>	16.82	
26 09 23 00-0532 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16) .....	221.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Ceiling Mount, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0533 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P) .....	258.64	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	10.09	
<i>For Ceiling Mount, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
<b>26 09 23 00-0534 High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small></b>		
<b>26 09 23 00-0535 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0534)</small></b>		
26 09 23 00-0536 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6) .....	156.87	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0537 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6) .....	156.87	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0538 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6) .....	156.87	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0539 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6) .....	136.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Start To High, HID Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0540 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6) .....	136.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Start To High, HID Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0541 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6) .....	136.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Start To High, HID Option, Add</i>	10.09	
<i>For Photocell Option, Add</i>	16.82	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0542 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P) .....	173.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0543 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P) .....	173.52	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0544	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	173.52	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0545	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0546	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208) .....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0547	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0548	EA	480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0549	EA	480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0550	EA	480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480) .....	149.47	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0551	EA	Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	175.37	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0552	EA	Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	175.37	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0553	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	175.37	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Low Voltage Relay Option, Add</i>	10.09	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0554	EA	Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	210.53	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Start To High, HID Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0555	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50) .....	210.53	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Start To High, HID Option, Add</i>	10.09	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0556	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	210.53	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Start To High, HID Option, Add</i>	10.09	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0557	EA	2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	186.48	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0558	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P) .....	186.48	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Photozell Option, Add</i>	16.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0559	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208) .....	158.72	22.92
		<i>For Low Temp/High Humidity Option, Add</i>	8.41	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0560 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	158.72	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	158.72	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0562 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	158.72	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Photocell Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	175.37	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0564 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	175.37	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Low Voltage Relay Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
26 09 23 00-0565 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	210.53	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Start To High, HID Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0566 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	210.53	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Start To High, HID Option, Add</i>	10.09	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0567 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	203.13	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0568 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	184.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0569 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	184.63	22.92
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
<b>26 09 23 00-0570 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0459)</b>		
26 09 23 00-0571 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	92.56	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0572 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	129.57	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0573 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	74.06	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0574 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	68.51	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0575 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	87.01	20.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0576 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	133.27	20.37
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0577 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	133.27	20.37
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 09 23 00-0578 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	133.27	20.37
<i>For Low Temp/High Humidity Option, Add</i>	8.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
<b>26 09 23 00-0579 Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0459)</b>		
<b>26 09 23 00-0580 Remove And Reinstall Occupancy Sensors (26 09 23 00-0579)</b>		
26 09 23 00-0581 EA Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor.....	30.56	
Note: Includes storing and cleaning.		
26 09 23 00-0582 EA Removal And Reinstallation Of Surface Mounted Occupancy Sensor.....	68.77	
Note: Includes storing and cleaning.		

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0583			<b>Daylighting Control (Sensor Switch)</b> <small>(26 09 23 00-0459)</small>		
26 09 23 00-0584	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0585	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0586	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0587	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For 480 Volt AC Option, Add</i>	11.77	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0588	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For 480 Volt AC Option, Add</i>	11.77	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0589	EA		Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For 480 Volt AC Option, Add</i>	11.77	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0590	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0591	EA		Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0592	EA		Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0593	EA		Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0594	EA		Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0595	EA		Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC) .....	138.37	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0596	EA		Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0597	EA		Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0598	EA		Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
26 09 23 00-0599	EA		Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0600	EA		Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0601	EA		Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC) .....	193.88	22.92
			<i>For Low Temp/High Humidity Option, Add</i>	8.41	
			<i>For Dual Zone Option, Add</i>	25.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.76	
26 09 23 00-0602			<b>Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23)</small>		
			Note: Includes testing of new devices and certification.		
26 09 23 00-0603			<b>Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0602)</small>		
			Note: Excludes boxes.		
26 09 23 00-0604			<b>Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0603)</small>		
26 09 23 00-0605			<b>Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0604)</small>		
			Note: Includes passive infrared and microphonics detection		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0606 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	201.07	10.19
<b>26 09 23 00-0607 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0603)</b>		
<b>26 09 23 00-0608 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0607)</b>		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0609 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	244.41	22.92
26 09 23 00-0610 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	244.41	22.92
26 09 23 00-0611 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	244.41	22.92
<b>26 09 23 00-0612 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0607)</b>		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0613 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	284.13	22.92
26 09 23 00-0614 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	284.13	22.92
26 09 23 00-0615 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	294.04	22.92
<b>26 09 23 00-0616 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0603)</b>		
<b>26 09 23 00-0617 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0616)</b>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0618 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	284.13	22.92
<b>26 09 23 00-0619 High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0603)</b>		
<b>26 09 23 00-0620 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0619)</b>		
26 09 23 00-0621 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	244.41	22.92
<b>26 09 23 00-0622 Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0602)</b>		
26 09 23 00-0623 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	90.39	20.37
26 09 23 00-0624 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	110.26	20.37
26 09 23 00-0625 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	144.00	20.37
26 09 23 00-0626 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	144.00	20.37
<b>26 09 23 00-0627 Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0602)</b>		
26 09 23 00-0628 EA RS232 AV Integrator (Sensor Switch nLight® nI2 X).....	294.04	22.92
26 09 23 00-0629 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	393.35	22.92
<b>26 09 23 00-0630 Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0602)</b>		
26 09 23 00-0631 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC).....	204.70	22.92
<b>26 09 23 00-0632 Controls (Sensor Switch nLight®) (26 09 23 00-0602)</b>		
26 09 23 00-0633 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	139.18	22.92
26 09 23 00-0634 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	194.79	22.92
26 09 23 00-0635 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	433.05	22.92
26 09 23 00-0636 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX).....	433.05	22.92
26 09 23 00-0637 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	1,584.73	22.92
<b>26 09 23 00-0638 Occupancy Sensors (Lutron) (26 09 23)</b>		
Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0639 Wireless Occupancy Sensors (26 09 23 00-0638)</b>		
26 09 23 00-0640 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	107.01	22.92
26 09 23 00-0641 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH).....	111.10	22.92
26 09 23 00-0642 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	107.98	22.92

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0643 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	113.42	22.92
26 09 23 00-0644 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	109.20	22.92
26 09 23 00-0645 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	113.42	22.92
26 09 23 00-0646 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	107.01	22.92
26 09 23 00-0647 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	109.20	22.92
26 09 23 00-0648 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	107.98	22.92
26 09 23 00-0649 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH).....	159.16	22.92
26 09 23 00-0650 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	168.91	22.92
26 09 23 00-0651 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH).....	190.84	22.92
26 09 23 00-0652 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	200.59	22.92
26 09 23 00-0653 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH).....	205.46	22.92
26 09 23 00-0654 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	215.21	22.92
26 09 23 00-0655 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	128.45	22.92
26 09 23 00-0656 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	134.79	22.92
26 09 23 00-0657 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH).....	155.51	22.92
26 09 23 00-0658 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH).....	171.35	22.92
26 09 23 00-0659 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH).....	183.53	22.92
26 09 23 00-0660 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH).....	160.38	22.92
26 09 23 00-0661 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	148.51	22.92
26 09 23 00-0662 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	126.50	22.92
26 09 23 00-0663 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	152.46	22.92
26 09 23 00-0664 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	182.17	22.92
26 09 23 00-0665 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	192.49	22.92
26 09 23 00-0666 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	192.49	22.92
26 09 23 00-0667 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	192.49	22.92
26 09 23 00-0668 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	201.95	22.92
26 09 23 00-0669 EA Wireless, Two Switches and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	325.10	33.10
<b>26 09 23 00-0670 Nodes And Modules</b> <small>(26 09 23 00-0638)</small>		
26 09 23 00-0671 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	165.25	22.92
26 09 23 00-0672 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	165.25	22.92
26 09 23 00-0673 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	205.46	22.92
26 09 23 00-0674 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	205.46	22.92
26 09 23 00-0675 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	260.51	25.47
26 09 23 00-0676 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	260.51	25.47
26 09 23 00-0677 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	312.91	25.47
26 09 23 00-0678 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	320.22	25.47
26 09 23 00-0679 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	392.11	25.47
26 09 23 00-0680 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	415.27	25.47
26 09 23 00-0681 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	438.42	25.47
26 09 23 00-0682 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,169.03	40.75
26 09 23 00-0683 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,151.80	45.85
26 09 23 00-0684 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	1,679.86	50.94
<b>26 09 23 00-0685 Other Accessories</b> <small>(26 09 23 00-0638)</small>		
26 09 23 00-0686 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	31.66	
26 09 23 00-0687 EA Pico® Wireless Control (Lutron® PJ).....	32.38	
26 09 23 00-0688 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	95.47	
26 09 23 00-0689 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	179.55	
26 09 23 00-0690 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	198.43	22.92
26 09 23 00-0691 EA seeTouch® QS Wallstation (Lutron® QSWS2).....	247.82	22.92
26 09 23 00-0692 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	247.82	22.92
26 09 23 00-0693 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	399.43	25.47
26 09 23 00-0694 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	541.99	25.47
26 09 23 00-0695 EA Control Interface (Lutron® QSE-CI-NWK-E).....	647.79	22.92
26 09 23 00-0696 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	642.93	22.92
26 09 23 00-0697 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	856.17	22.92
26 09 23 00-0698 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	1,789.85	712.15
26 09 23 00-0699 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,277.26	712.15
<b>26 09 23 00-0700 Fixture Mounted Occupancy Sensors (Leviton)</b> <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0701 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	103.11	22.92
26 09 23 00-0702 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....	91.90	22.92
26 09 23 00-0703 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	112.37	22.92
26 09 23 00-0704 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	91.90	22.92
26 09 23 00-0705 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	136.64	10.18
<b>26 09 23 00-0706 Wireless Enabled Communication Devices For Streetlights</b> <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0707 Wireless Enabled Communication Devices For Streetlights (Roam®)</b> <small>(26 09 23 00-0706)</small>		
<b>26 09 23 00-0708 Wireless Enabled Communication Nodes For Streetlights (Roam®)</b> <small>(26 09 23 00-0707)</small> Note: 2.4GHz wireless enabled communication node for wireless remote on/off, group scheduling, photocontrol and diagnostics.		
26 09 23 00-0709 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	206.41	
26 09 23 00-0710 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	285.84	
<b>26 09 23 00-0711 Wireless Enabled Communication Devices For Streetlights (Roam®)</b> <small>(26 09 23 00-0707)</small>		
26 09 23 00-0712 EA Retrofit Receptacle Kit (Roam® DUR103).....	41.62	
Note: For adapting light fixtures for use with a NEMA locking type photocontrol.		
26 09 23 00-0713 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	8,053.40	55.40
<b>26 09 23 00-0714 Counter Mounted Consolets</b> <small>(26 09 23)</small>		
26 09 23 00-0715 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	466.54	127.17
<b>26 09 23 00-0716 Lighting Console And Stations</b> <small>(26 09 23)</small>		
26 09 23 00-0717 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	2,909.42	127.17
For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	61.40	
For Lighting Console Case (ETC ColorSourcePart 11866), Add	654.64	
26 09 23 00-0718 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2).....	2,002.79	76.30
<b>26 09 23 00-0719 Emergency Lighting Controls</b> <small>(26 09 23)</small>		
<b>26 09 23 00-0720 Emergency Lighting Control Units (Watt Stopper ELCU)</b> <small>(26 09 23 00-0719)</small> Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0721 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	181.69	25.47
26 09 23 00-0722 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200).....	181.69	25.47
<b>26 09 23 00-0723 Emergency Shunt Relays (Lighting Control &amp; Design GR 2001™)</b> <small>(26 09 23 00-0719)</small> Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0724 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	250.69	35.65
26 09 23 00-0725 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	337.67	40.75
26 09 23 00-0726 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	450.42	45.85
Note: Controls normal and emergency lighting from single-pole wall switch.		
<b>26 09 23 00-0727 Photocells</b> <small>(26 09 23)</small>		
26 09 23 00-0728 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	70.99	
26 09 23 00-0729 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	175.51	
<b>26 09 23 00-0730 Outdoor Lighting Motion Sensors</b> <small>(26 09 23)</small>		
26 09 23 00-0731 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000).....	89.50	25.47
26 09 23 00-0732 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	96.49	25.47
26 09 23 00-0733 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	356.08	25.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.28	
<b>26 09 23 00-0734 Street Light Controls</b> <small>(26 09 23)</small>		
<b>26 09 23 00-0735 Photo Controls</b> <small>(26 09 23 00-0734)</small>		
26 09 23 00-0736 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	86.13	



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 09 23 00-0737 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....99.42

**26 09 23 00-0738 Connector Node** (26 09 23 00-0734)

26 09 23 00-0739 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260).....319.84 2.62

**26 10 Medium-Voltage Electrical Distribution** (26)**26 11 Substations** (26 10)**26 11 13 Primary Unit Substations** (26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** (26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** (26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003	EA	14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	45,933.01	1,757.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,072.89	
26 11 13 00-0004	EA	23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	56,357.35	2,223.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,341.12	
26 11 13 00-0005	EA	34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	63,769.76	2,223.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,341.12	
26 11 13 00-0006	EA	46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	73,280.85	2,223.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,430.52	
26 11 13 00-0007	EA	69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	83,149.46	2,740.41
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,650.61	

**26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers** (26 11 13 00-0001)

26 11 13 00-0009	EA	Reclosure Relay, Adjustable, 3 Shot, #179	1,294.20	185.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.05	
26 11 13 00-0010	EA	Overcurrent Relay, 1 Phase, #51/51N	426.56	134.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.40	
26 11 13 00-0011	EA	Directional Overcurrent Relay, Three-Phase, Device No. 67	631.20	134.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.45	
26 11 13 00-0012	EA	Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase	499.68	134.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.40	
26 11 13 00-0013	EA	Differential Relay Package, Complete, Device No. 87	1,869.40	455.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.94	

**26 11 13 00-0014 "Switchyard", Substation Transformer Section** (26 11 13)

Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range

**26 11 13 00-0015 14.4 KV Nominal Primary** (26 11 13 00-0014)

26 11 13 00-0016	EA	1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	26,648.40	1,757.99
		<i>For 50 Hz Operation, Add</i>	2,768.65	
		<i>For Forced Air Cooling, Add</i>	2,768.65	
		<i>For External Control Panel, Add</i>	692.16	
		<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	230.72	
		<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,153.60	
		<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	2,884.01	
		<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	3,460.81	
26 11 13 00-0017	EA	2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	30,517.81	2,202.66
		<i>For 50 Hz Operation, Add</i>	3,125.69	
		<i>For Forced Air Cooling, Add</i>	3,125.69	
		<i>For External Control Panel, Add</i>	781.42	
		<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	260.47	
		<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,302.37	
		<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,255.93	
		<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	3,907.11	
26 11 13 00-0018	EA	5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	46,888.94	3,102.34
		<i>For 50 Hz Operation, Add</i>	4,863.73	
		<i>For Forced Air Cooling, Add</i>	4,863.73	
		<i>For External Control Panel, Add</i>	1,215.93	
		<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	405.31	
		<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,026.55	
		<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	5,066.38	
		<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	6,079.66	
26 11 13 00-0019	EA	7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	67,115.75	3,685.64
		<i>For 50 Hz Operation, Add</i>	7,171.96	
		<i>For Forced Air Cooling, Add</i>	7,171.96	
		<i>For External Control Panel, Add</i>	1,792.99	
		<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	597.66	
		<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,988.32	
		<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	7,470.79	
		<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	8,964.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	83,442.55	4,769.65
For 50 Hz Operation, Add	8,820.69	
For Forced Air Cooling, Add	8,820.69	
For External Control Panel, Add	2,205.17	
For Internally Mounted Current Transformers And Linear Couplers, Add	735.06	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,675.29	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,188.22	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,025.87	
<b>26 11 13 00-0021 23 KV Nominal Primary</b> <small>(26 11 13 00-0014)</small>		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	29,850.27	2,378.46
For 50 Hz Operation, Add	3,045.59	
For External Control Panel, Add	761.40	
For Internally Mounted Current Transformers And Linear Couplers, Add	253.80	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,268.99	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,172.49	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,806.98	
For Forced Air Cooling, Add	2,030.39	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	34,117.52	2,378.46
For 50 Hz Operation, Add	3,446.32	
For External Control Panel, Add	861.58	
For Internally Mounted Current Transformers And Linear Couplers, Add	287.19	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,435.97	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,589.92	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,307.90	
For Forced Air Cooling, Add	2,297.55	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	54,553.39	3,515.99
For 50 Hz Operation, Add	5,688.09	
For External Control Panel, Add	1,422.02	
For Internally Mounted Current Transformers And Linear Couplers, Add	474.01	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,370.04	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,925.10	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,110.12	
For Forced Air Cooling, Add	3,792.06	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	73,137.99	4,769.65
For 50 Hz Operation, Add	7,584.15	
For External Control Panel, Add	1,896.04	
For Internally Mounted Current Transformers And Linear Couplers, Add	632.01	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,160.06	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,900.15	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,480.18	
For Forced Air Cooling, Add	5,056.10	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	90,312.27	4,769.65
For 50 Hz Operation, Add	9,645.06	
For External Control Panel, Add	2,411.27	
For Internally Mounted Current Transformers And Linear Couplers, Add	803.76	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,018.78	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,046.94	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,056.33	
For Forced Air Cooling, Add	6,430.04	
<b>26 11 13 00-0027 34.5 KV Nominal Primary</b> <small>(26 11 13 00-0014)</small>		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	37,456.97	2,843.81
For 50 Hz Operation, Add	3,847.05	
For External Control Panel, Add	961.76	
For Internally Mounted Current Transformers And Linear Couplers, Add	320.59	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,602.94	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,007.35	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,808.82	
For Forced Air Cooling, Add	2,564.70	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	45,240.03	4,446.69
For 50 Hz Operation, Add	4,648.52	
For External Control Panel, Add	1,162.13	
For Internally Mounted Current Transformers And Linear Couplers, Add	387.38	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,936.88	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,842.21	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,810.65	
For Forced Air Cooling, Add	3,099.01	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	62,524.63	4,446.69
For 50 Hz Operation, Add	6,430.06	
For External Control Panel, Add	1,607.52	
For Internally Mounted Current Transformers And Linear Couplers, Add	535.84	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,679.19	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,697.98	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,037.58	
For Forced Air Cooling, Add	4,286.71	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	80,007.66	4,661.25
For 50 Hz Operation, Add	8,408.51	
For External Control Panel, Add	2,102.13	
For Internally Mounted Current Transformers And Linear Couplers, Add	700.71	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,503.54	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,758.86	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,510.63	
For Forced Air Cooling, Add	5,605.67	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 11 Substations**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0032	EA		10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	137,747.67	5,962.06
			<i>For 50 Hz Operation, Add</i>	15,003.43	
			<i>For External Control Panel, Add</i>	3,750.86	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,250.29	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	6,251.43	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	15,628.58	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	18,754.29	
			<i>For Forced Air Cooling, Add</i>	10,002.29	
<b>26 11 13 00-0033</b>			<b>46 KV Nominal Primary</b> (26 11 13 00-0014)		
26 11 13 00-0034	EA		1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	57,217.39	3,309.16
			<i>For 50 Hz Operation, Add</i>	6,085.80	
			<i>For External Control Panel, Add</i>	1,521.45	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	507.15	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,535.75	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,339.38	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	7,607.25	
			<i>For Forced Air Cooling, Add</i>	4,057.20	
26 11 13 00-0035	EA		2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	64,649.01	3,309.16
			<i>For 50 Hz Operation, Add</i>	6,899.57	
			<i>For External Control Panel, Add</i>	1,724.89	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	574.96	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,874.82	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	7,187.05	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	8,624.46	
			<i>For Forced Air Cooling, Add</i>	4,599.71	
26 11 13 00-0036	EA		5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	89,433.29	4,446.69
			<i>For 50 Hz Operation, Add</i>	9,659.10	
			<i>For External Control Panel, Add</i>	2,414.78	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	804.93	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,024.63	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	10,061.57	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	12,073.88	
			<i>For Forced Air Cooling, Add</i>	6,439.40	
26 11 13 00-0037	EA		7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	109,440.26	5,962.06
			<i>For 50 Hz Operation, Add</i>	11,606.54	
			<i>For External Control Panel, Add</i>	2,901.64	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	967.21	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,836.06	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	12,090.15	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	14,508.18	
			<i>For Forced Air Cooling, Add</i>	7,737.70	
26 11 13 00-0038	EA		10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	154,964.49	5,962.06
			<i>For 50 Hz Operation, Add</i>	17,069.45	
			<i>For External Control Panel, Add</i>	4,267.36	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,422.45	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	7,112.27	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	17,780.68	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	21,336.81	
			<i>For Forced Air Cooling, Add</i>	11,379.63	
<b>26 11 13 00-0039</b>			<b>69 KV Nominal Primary</b> (26 11 13 00-0014)		
26 11 13 00-0040	EA		1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	82,086.83	3,515.99
			<i>For 50 Hz Operation, Add</i>	8,992.11	
			<i>For External Control Panel, Add</i>	2,248.03	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	749.34	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,746.71	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	9,366.78	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	11,240.13	
			<i>For Forced Air Cooling, Add</i>	5,994.74	
26 11 13 00-0041	EA		2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	94,370.71	4,446.69
			<i>For 50 Hz Operation, Add</i>	10,251.59	
			<i>For External Control Panel, Add</i>	2,562.90	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	854.30	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,271.50	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	10,678.74	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	12,814.49	
			<i>For Forced Air Cooling, Add</i>	6,834.40	
26 11 13 00-0042	EA		5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	129,273.22	4,446.69
			<i>For 50 Hz Operation, Add</i>	14,439.89	
			<i>For External Control Panel, Add</i>	3,609.97	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,203.32	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	6,016.62	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	15,041.56	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	18,049.87	
			<i>For Forced Air Cooling, Add</i>	9,626.60	
26 11 13 00-0043	EA		7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	137,248.15	5,962.06
			<i>For 50 Hz Operation, Add</i>	14,943.49	
			<i>For External Control Panel, Add</i>	3,735.87	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,245.29	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	6,226.45	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	15,566.14	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	18,679.36	
			<i>For Forced Air Cooling, Add</i>	9,962.33	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Medium-Voltage Electrical Distribution</b>	<b>26 10</b>	
<b>Substations</b>	<b>26 11</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	179,286.63 19,988.11 4,997.03 1,665.68 8,328.38 20,820.95 24,985.14 13,325.41	5,962.06
<b>26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)</b>		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	48,841.82	835.55
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	53,608.30	835.55
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	61,052.70	1,037.90
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	57,148.45	1,248.02
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	64,349.23	1,248.02
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	73,418.38	1,449.93
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	75,720.76	1,656.55
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	84,686.14	1,656.55
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	88,788.77	1,860.31
<b>26 11 16 Secondary Unit Substations (26 11)</b>		
<b>26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)</b>		
26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position .....	32,241.52	1,226.99
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position .....	37,223.11	1,226.99
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches (26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch .....	45,622.68	1,226.99
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch .....	48,864.73	1,226.99
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section .....	6,502.77	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section .....	632.96	
26 11 16 11-0011 Oil Filled Substation Transformers (26 11 16 11) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	12,302.38	775.58
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	752.58	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	322.54	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	107.51	
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	17,919.76	930.70
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	1,124.08	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	481.75	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	160.58	
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	20,268.49	1,034.11
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	1,274.02	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	546.01	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	182.00	
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	24,032.25	1,292.64
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	1,501.29	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	643.41	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	214.47	
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	26,908.10	1,602.88
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	1,659.16	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	711.07	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	237.02	
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	28,950.36	1,964.81
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	1,751.45	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	750.62	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	250.21	
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	33,939.44	1,034.11
<i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i>	2,042.78	
<i>For Control Power Transformer On Fans And Auxiliary, Add</i>	875.48	
<i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	291.83	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	36,198.40	2,585.29
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,171.95	
For Control Power Transformer On Fans And Auxiliary, Add	930.83	
For Internal Mounted Current Transformer And Linear Coupler, Add	310.28	
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	40,418.02	2,843.81
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,431.13	
For Control Power Transformer On Fans And Auxiliary, Add	1,041.91	
For Internal Mounted Current Transformer And Linear Coupler, Add	347.30	
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	46,650.05	3,154.04
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,823.94	
For Control Power Transformer On Fans And Auxiliary, Add	1,210.26	
For Internal Mounted Current Transformer And Linear Coupler, Add	403.42	
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	51,208.02	3,438.43
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,103.18	
For Control Power Transformer On Fans And Auxiliary, Add	1,329.93	
For Internal Mounted Current Transformer And Linear Coupler, Add	443.31	
<b>26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ (26 11 16 11-0011)</b>		
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	11,766.02	775.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	715.04	
For Control Power Transformer On Fans And Auxiliary, Add	306.45	
For Internal Mounted Current Transformer And Linear Coupler, Add	102.15	
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	17,435.61	775.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,111.91	
For Control Power Transformer On Fans And Auxiliary, Add	476.53	
For Internal Mounted Current Transformer And Linear Coupler, Add	158.84	
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	20,256.62	1,034.11
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,273.19	
For Control Power Transformer On Fans And Auxiliary, Add	545.65	
For Internal Mounted Current Transformer And Linear Coupler, Add	181.88	
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	24,052.68	1,292.64
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,502.72	
For Control Power Transformer On Fans And Auxiliary, Add	644.02	
For Internal Mounted Current Transformer And Linear Coupler, Add	214.67	
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	28,992.28	1,602.88
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,805.06	
For Control Power Transformer On Fans And Auxiliary, Add	773.60	
For Internal Mounted Current Transformer And Linear Coupler, Add	257.87	
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	31,545.54	1,964.81
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,933.11	
For Control Power Transformer On Fans And Auxiliary, Add	828.48	
For Internal Mounted Current Transformer And Linear Coupler, Add	276.16	
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	35,137.80	2,378.46
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,126.66	
For Control Power Transformer On Fans And Auxiliary, Add	911.43	
For Internal Mounted Current Transformer And Linear Coupler, Add	303.81	
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	38,262.67	2,585.29
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,316.45	
For Control Power Transformer On Fans And Auxiliary, Add	992.76	
For Internal Mounted Current Transformer And Linear Coupler, Add	330.92	
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof .....	43,087.44	2,843.81
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,617.99	
For Control Power Transformer On Fans And Auxiliary, Add	1,121.99	
For Internal Mounted Current Transformer And Linear Coupler, Add	374.00	
<b>26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)</b>		
26 11 16 11-0035 EA Sudden Pressure Relay .....	3,258.65	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV) .....	6,469.52	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole) .....	4,259.93	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X) .....	23,640.48	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout .....	22,118.02	
<b>26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011)</b>		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	3,866.64	1,102.10
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....	4,529.46	1,270.74
<b>26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)</b>		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
<b>26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)</b>		
Note: Primary 4.160 or 4.8 KV (delta or wye).		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	21,061.38	827.29
<i>For Gas Filled Transformers, Add</i>	11,644.08	
<i>For Single Phase Transformers, Deduct</i>	-485.17	
<i>For Dry Type Unit, Add</i>	4,434.95	
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	21,164.79	879.00
<i>For Gas Filled Transformers, Add</i>	11,644.08	
<i>For Single Phase Transformers, Deduct</i>	-485.17	
<i>For Dry Type Unit, Add</i>	4,445.30	
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	21,727.81	1,034.11
<i>For Gas Filled Transformers, Add</i>	11,795.75	
<i>For Single Phase Transformers, Deduct</i>	-491.49	
<i>For Dry Type Unit, Add</i>	4,531.93	
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	23,978.81	1,137.53
<i>For Gas Filled Transformers, Add</i>	13,022.26	
<i>For Single Phase Transformers, Deduct</i>	-542.59	
<i>For Dry Type Unit, Add</i>	5,002.33	
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	26,677.48	1,344.35
<i>For Gas Filled Transformers, Add</i>	14,393.27	
<i>For Single Phase Transformers, Deduct</i>	-599.72	
<i>For Dry Type Unit, Add</i>	5,546.40	
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	30,902.82	1,551.18
<i>For Gas Filled Transformers, Add</i>	16,680.29	
<i>For Single Phase Transformers, Deduct</i>	-695.01	
<i>For Dry Type Unit, Add</i>	6,426.34	
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	35,926.15	1,861.41
<i>For Gas Filled Transformers, Add</i>	19,322.00	
<i>For Single Phase Transformers, Deduct</i>	-805.08	
<i>For Dry Type Unit, Add</i>	7,457.02	
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	42,362.86	2,068.23
<i>For Gas Filled Transformers, Add</i>	22,935.85	
<i>For Single Phase Transformers, Deduct</i>	-955.66	
<i>For Dry Type Unit, Add</i>	8,823.46	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	54,502.37	2,171.64
<i>For Gas Filled Transformers, Add</i>	30,095.46	
<i>For Single Phase Transformers, Deduct</i>	-1,253.98	
<i>For Dry Type Unit, Add</i>	11,469.33	
<b>26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small></b>		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	20,372.68	827.29
<i>For Gas Filled Transformers, Add</i>	11,230.86	
<i>For Single Phase Transformers, Deduct</i>	-467.95	
<i>For Dry Type Unit, Add</i>	4,283.44	
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	21,164.79	879.00
<i>For Gas Filled Transformers, Add</i>	11,644.08	
<i>For Single Phase Transformers, Deduct</i>	-485.17	
<i>For Dry Type Unit, Add</i>	4,445.30	
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	21,727.81	1,034.11
<i>For Gas Filled Transformers, Add</i>	11,795.75	
<i>For Single Phase Transformers, Deduct</i>	-491.49	
<i>For Dry Type Unit, Add</i>	4,531.93	
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	23,978.81	1,137.53
<i>For Gas Filled Transformers, Add</i>	13,022.26	
<i>For Single Phase Transformers, Deduct</i>	-542.59	
<i>For Dry Type Unit, Add</i>	5,002.33	
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	26,677.48	1,344.35
<i>For Gas Filled Transformers, Add</i>	14,393.27	
<i>For Single Phase Transformers, Deduct</i>	-599.72	
<i>For Dry Type Unit, Add</i>	5,546.40	
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	30,902.82	1,551.18
<i>For Gas Filled Transformers, Add</i>	16,680.29	
<i>For Single Phase Transformers, Deduct</i>	-695.01	
<i>For Dry Type Unit, Add</i>	6,426.34	
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	35,926.15	1,861.41
<i>For Gas Filled Transformers, Add</i>	19,322.00	
<i>For Single Phase Transformers, Deduct</i>	-805.08	
<i>For Dry Type Unit, Add</i>	7,457.02	
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	42,362.86	2,068.23
<i>For Gas Filled Transformers, Add</i>	22,935.85	
<i>For Single Phase Transformers, Deduct</i>	-955.66	
<i>For Dry Type Unit, Add</i>	8,823.46	
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	54,502.37	2,171.64
<i>For Gas Filled Transformers, Add</i>	30,095.46	
<i>For Single Phase Transformers, Deduct</i>	-1,253.98	
<i>For Dry Type Unit, Add</i>	11,469.33	
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	59,737.06	2,275.05
<i>For Gas Filled Transformers, Add</i>	33,112.18	
<i>For Single Phase Transformers, Deduct</i>	-1,379.67	
<i>For Dry Type Unit, Add</i>	12,596.14	
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	66,546.17	2,378.46
<i>For Gas Filled Transformers, Add</i>	37,073.55	
<i>For Single Phase Transformers, Deduct</i>	-1,544.73	
<i>For Dry Type Unit, Add</i>	14,069.33	

<b>26</b>	<b>Electrical</b>
<b>26 10</b>	<b>Medium-Voltage Electrical Distribution</b>
<b>26 11</b>	<b>Substations</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	76,498.19	2,481.87
For Gas Filled Transformers, Add	42,920.66	
For Single Phase Transformers, Deduct	-1,788.36	
For Dry Type Unit, Add	16,233.95	
<b>26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt</b> <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	22,693.36	930.70
For Gas Filled Transformers, Add	12,499.17	
For Single Phase Transformers, Deduct	-520.80	
For Dry Type Unit, Add	4,769.17	
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	23,481.47	982.41
For Gas Filled Transformers, Add	12,910.00	
For Single Phase Transformers, Deduct	-537.92	
For Dry Type Unit, Add	4,930.15	
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	25,194.97	1,137.53
For Gas Filled Transformers, Add	13,751.95	
For Single Phase Transformers, Deduct	-573.00	
For Dry Type Unit, Add	5,269.89	
26 11 16 11-0077 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	26,635.87	1,240.93
For Gas Filled Transformers, Add	14,492.40	
For Single Phase Transformers, Deduct	-603.85	
For Dry Type Unit, Add	5,562.07	
26 11 16 11-0078 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	30,401.42	1,447.76
For Gas Filled Transformers, Add	16,503.54	
For Single Phase Transformers, Deduct	-687.65	
For Dry Type Unit, Add	6,340.85	
26 11 16 11-0079 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	33,735.04	1,654.58
For Gas Filled Transformers, Add	18,255.53	
For Single Phase Transformers, Deduct	-760.65	
For Dry Type Unit, Add	7,024.61	
26 11 16 11-0080 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	39,421.19	1,964.81
For Gas Filled Transformers, Add	21,294.93	
For Single Phase Transformers, Deduct	-887.29	
For Dry Type Unit, Add	8,201.11	
26 11 16 11-0081 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	47,587.58	2,171.64
For Gas Filled Transformers, Add	25,946.59	
For Single Phase Transformers, Deduct	-1,081.11	
For Dry Type Unit, Add	9,948.08	
26 11 16 11-0082 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	57,213.18	2,275.05
For Gas Filled Transformers, Add	31,597.85	
For Single Phase Transformers, Deduct	-1,316.58	
For Dry Type Unit, Add	12,040.89	
<b>26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt</b> <small>(26 11 16 11-0049)</small>		
26 11 16 11-0084 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	22,693.36	930.70
For Gas Filled Transformers, Add	12,499.17	
For Single Phase Transformers, Deduct	-520.80	
For Dry Type Unit, Add	4,769.17	
26 11 16 11-0085 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	23,481.47	982.41
For Gas Filled Transformers, Add	12,910.00	
For Single Phase Transformers, Deduct	-537.92	
For Dry Type Unit, Add	4,930.15	
26 11 16 11-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	25,194.97	1,137.53
For Gas Filled Transformers, Add	13,751.95	
For Single Phase Transformers, Deduct	-573.00	
For Dry Type Unit, Add	5,269.89	
26 11 16 11-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	26,635.87	1,240.93
For Gas Filled Transformers, Add	14,492.40	
For Single Phase Transformers, Deduct	-603.85	
For Dry Type Unit, Add	5,562.07	
26 11 16 11-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	30,401.42	1,447.76
For Gas Filled Transformers, Add	16,503.54	
For Single Phase Transformers, Deduct	-687.65	
For Dry Type Unit, Add	6,340.85	
26 11 16 11-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	29,754.15	1,654.58
For Gas Filled Transformers, Add	15,866.99	
For Single Phase Transformers, Deduct	-661.12	
For Dry Type Unit, Add	6,148.81	
26 11 16 11-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	31,242.91	1,964.81
For Gas Filled Transformers, Add	16,387.96	
For Single Phase Transformers, Deduct	-682.83	
For Dry Type Unit, Add	6,401.88	
26 11 16 11-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	38,217.62	2,171.64
For Gas Filled Transformers, Add	20,324.61	
For Single Phase Transformers, Deduct	-846.86	
For Dry Type Unit, Add	7,886.68	
26 11 16 11-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	45,068.47	2,275.05
For Gas Filled Transformers, Add	24,311.02	
For Single Phase Transformers, Deduct	-1,012.96	
For Dry Type Unit, Add	9,369.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer ..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	50,242.17 27,291.15 -1,137.13 10,482.45	2,378.46
26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer ..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	58,724.08 32,256.20 -1,344.01 12,323.65	2,481.87
26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer ..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	71,629.17 39,875.16 -1,661.47 15,137.95	2,585.29

**26 12 Medium-Voltage Transformers <sup>(26 10)</sup>**

**26 12 13 Liquid-Filled, Medium-Voltage Transformers <sup>(26 12)</sup>**

**26 12 13 00-0001 Removal And Relocation Of Transformers <sup>(26 12 13)</sup>**

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer .....	1,033.51
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers .....	1,901.95

**26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers <sup>(26 12 13)</sup>**

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

**26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent**

**Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0006	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	1,720.29	417.16
26 12 13 00-0007	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	2,095.12	521.46
26 12 13 00-0008	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	2,463.71	625.74
26 12 13 00-0009	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	3,150.01	782.18
26 12 13 00-0010	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	3,753.18	938.62
26 12 13 00-0011	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	4,898.73	1,095.05
26 12 13 00-0012	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	5,815.18	1,303.63

**26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent**

**Taps FCAN And FCBN. Rated To 5 KVA <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0014	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,720.29	417.16
26 12 13 00-0015	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,119.45	521.46
26 12 13 00-0016	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,463.71	625.74
26 12 13 00-0017	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,150.01	782.18
26 12 13 00-0018	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,753.18	938.62
26 12 13 00-0019	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,648.66	1,095.05
26 12 13 00-0020	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,688.19	1,303.63

**26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps**

**FCBN And FCAN <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0022	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,691.90	417.16
26 12 13 00-0023	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,018.08	521.46
26 12 13 00-0024	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,387.52	625.74
26 12 13 00-0025	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,132.43	782.18
26 12 13 00-0026	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,678.94	938.62
26 12 13 00-0027	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,695.55	1,095.05
26 12 13 00-0028	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,699.92	1,303.63

**26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent**

**Taps FCBN And FCAN <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0030	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,823.68	417.16
26 12 13 00-0031	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,153.92	521.46
26 12 13 00-0032	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,743.38	625.74
26 12 13 00-0033	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,449.21	782.18
26 12 13 00-0034	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,034.06	938.62
26 12 13 00-0035	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,220.75	1,095.05
26 12 13 00-0036	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	6,547.77	1,303.63

**26 12 13 00-0037 Transformer Platforms <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0038	EA	Transformer Platforms, 75 - 167 KVA .....	3,509.73	704.49
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**26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops**

**FCBN Auto FCAN <sup>(26 12 13 00-0004)</sup>**

26 12 13 00-0040	EA	10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,943.85	417.16
26 12 13 00-0041	EA	15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,263.03	521.46
26 12 13 00-0042	EA	25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,744.38	625.74
26 12 13 00-0043	EA	37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,447.98	782.18

<b>26</b>	<b>Electrical</b>
<b>26 10</b>	<b>Medium-Voltage Electrical Distribution</b>
<b>26 12</b>	<b>Medium-Voltage Transformers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,137.93	990.76
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,223.81	1,095.05
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	6,547.77	1,303.63
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	8,641.69	1,668.65
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	11,226.48	2,242.25
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	13,121.34	2,607.27
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	15,897.64	2,815.85
<b>26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL</b> <small>(26 12 13 00-0004)</small>		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	1,720.29	510.82
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	2,095.12	638.47
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	2,463.28	765.39
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	3,151.02	959.16
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	3,752.21	1,148.97
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	4,897.41	1,338.16
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....	5,815.18	1,596.27
<b>26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN</b> <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,720.29	510.82
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,119.45	638.47
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,463.28	765.39
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,151.02	959.16
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,752.21	1,148.97
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,647.34	1,338.16
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,688.19	1,596.27
<b>26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y</b> <small>(26 12 13 00-0004)</small>		
<b>26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN</b> <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,507.04	417.16
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,833.59	521.46
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,153.17	625.74
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,764.60	782.18
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,397.23	938.62
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,766.04	1,095.05
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,556.19	1,303.63
<b>26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN</b> <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,442.54	417.16
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	1,752.49	521.46
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,116.31	625.74
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	2,690.88	782.18
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	3,295.86	938.62
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	4,397.42	1,095.05
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase .....	5,187.58	1,303.63
<b>26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers</b> <small>(26 12 13)</small>		
<b>26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt</b> <small>(26 12 13 00-0084)</small> Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	6,168.19	1,460.07
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	7,308.20	1,564.36
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	9,551.60	1,981.53
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	12,337.94	2,502.97
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	16,808.79	2,815.85
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase .....	24,799.99	3,754.47
<b>26 12 16 Dry-Type, Medium-Voltage Transformers</b> <small>(26 12)</small>		
<b>26 12 16 00-0001 Removal and Relocation of Transformers</b> <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer.....	429.16	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer .....	1,907.37	
<b>26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers</b> <small>(26 12)</small>		
<b>26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers</b> <small>(26 12 19)</small> Note: Designed for residential and multi-family buildings. UL listed.		





<b>Electrical</b>	<b>26</b>	
<b>Medium-Voltage Electrical Distribution</b>	<b>26 10</b>	<b>26</b>
<b>Medium-Voltage Transformers</b>	<b>26 12</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0002 <b>Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled</b> <small>(26 12 19 00-0001)</small> Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 <b>Primary, 4.16/4.8 KV Ground Y Or Delta</b> <small>(26 12 19 00-0002)</small> Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	3,328.63	517.06
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	3,709.30	620.47
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	4,397.86	723.88
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	5,259.71	775.58
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	5,890.62	827.29
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	7,713.53	1,085.82
26 12 19 00-0010 <b>Factory Modifications Material Cost Only</b> <small>(26 12 19 00-0002)</small>		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications .....	549.41	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications.....	577.28	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications .....	635.01	
26 12 19 00-0014 <b>Distribution - Single Phase Multiple Building Transformer</b> <small>(26 12 19 00-0001)</small> Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015 <b>Primary, 4.16/4.8 KVA Ground Y Or Delta</b> <small>(26 12 19 00-0014)</small> Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	3,917.19	517.06
26 12 19 00-0017 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,486.15	517.06
26 12 19 00-0018 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	4,899.75	708.37
26 12 19 00-0019 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	5,990.08	708.37
26 12 19 00-0020 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	6,702.74	930.70
26 12 19 00-0021 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	8,105.12	930.70
26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	12,521.36	1,292.64
26 12 19 00-0023 <b>Factory Modifications Material Cost Only</b> <small>(26 12 19 00-0014)</small>		
26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications .....	732.55	
26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications .....	185.61	
26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications.....	577.28	
26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications .....	939.57	
26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications .....	250.82	
26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications .....	216.98	
26 12 19 00-0030 <b>Primary, 12.47 KV Ground Y Or Delta</b> <small>(26 12 19 00-0014)</small> Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,187.18	517.06
26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	4,576.05	517.06
26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,864.43	708.37
26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	5,774.18	708.37
26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	7,150.60	930.70
26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	8,894.73	930.81
26 12 19 00-0037 EA 250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	11,261.27	1,292.64
26 12 19 00-0038 <b>Oil Filled Distribution Transformer Single Phase Cluster Mounted</b> <small>(26 12 19 00-0001)</small> Note: Conventional type.		
26 12 19 00-0039 <b>13.8/14.4 KV Ground Y Or Delta Primary 120/240V</b> <small>(26 12 19 00-0038)</small> Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040 EA 10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,843.39	350.57
26 12 19 00-0041 EA 37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,601.31	492.99



**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 12 Medium-Voltage Transformers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0042 EA 50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,448.30	788.77
26 12 19 00-0043 EA 100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,315.91	788.77
26 12 19 00-0044 EA 167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	12,705.74	1,292.72
26 12 19 00-0045 EA 250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	16,689.77	1,292.72
<b>26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase</b> <small>(26 12 19 00-0001)</small>		
<b>26 12 19 00-0047 7.2 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0048 EA 10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,771.51	372.47
26 12 19 00-0049 EA 15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,032.65	372.47
26 12 19 00-0050 EA 25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,544.22	525.86
26 12 19 00-0051 EA 37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,625.27	525.86
26 12 19 00-0052 EA 50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,334.37	712.09
26 12 19 00-0053 EA 100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,132.33	1,095.53
26 12 19 00-0054 EA 167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	12,561.98	1,095.53
26 12 19 00-0055 EA 250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	16,467.85	1,369.40
<b>26 12 19 00-0056 7.2 KV Primary, 240/480 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0057 EA 10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,771.51	372.47
26 12 19 00-0058 EA 15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,032.72	372.47
26 12 19 00-0059 EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,544.22	525.86
26 12 19 00-0060 EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,625.27	525.86
26 12 19 00-0061 EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,334.37	712.09
26 12 19 00-0062 EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	8,060.71	964.06
26 12 19 00-0063 EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,132.33	964.06
26 12 19 00-0064 EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	12,561.98	1,216.03
26 12 19 00-0065 EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	16,467.85	1,369.40
<b>26 12 19 00-0066 2.4 KV Primary, 277 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0067 EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,997.09	372.47
26 12 19 00-0068 EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,278.49	372.47
26 12 19 00-0069 EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,835.69	525.86
26 12 19 00-0070 EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,997.60	525.86
26 12 19 00-0071 EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,760.90	712.09
26 12 19 00-0072 EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	8,581.68	964.06
26 12 19 00-0073 EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,920.64	964.06
26 12 19 00-0074 EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	13,668.43	1,216.03
26 12 19 00-0075 EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	17,967.78	1,369.40
<b>26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0077 EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,771.51	372.47
26 12 19 00-0078 EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,032.65	372.47
26 12 19 00-0079 EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,544.22	715.49
26 12 19 00-0080 EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,625.27	964.06
26 12 19 00-0081 EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,334.37	712.09
26 12 19 00-0082 EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	7,908.81	964.06
26 12 19 00-0083 EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,130.86	964.06
<b>26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0085 EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,771.51	372.47
26 12 19 00-0086 EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,032.65	372.47
26 12 19 00-0087 EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,544.22	525.86
26 12 19 00-0088 EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,625.27	525.86
26 12 19 00-0089 EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	5,334.37	712.09
26 12 19 00-0090 EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	7,908.81	964.06
26 12 19 00-0091 EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	9,130.86	964.06
<b>26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0093 EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,420.76	383.43
26 12 19 00-0094 EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	2,636.42	427.26
26 12 19 00-0095 EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	3,161.95	471.07
26 12 19 00-0096 EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,085.22	657.32
26 12 19 00-0097 EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	4,587.16	766.87
26 12 19 00-0098 EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	6,165.95	898.33
26 12 19 00-0099 EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	7,357.73	1,029.79
26 12 19 00-0100 EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	11,189.55	1,314.63
26 12 19 00-0101 EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	15,082.15	1,478.96

**26 13 Medium-Voltage Switchgear** (26 10)

**26 13 16 Medium-Voltage Fusible Interrupter Switchgear** (26 13)



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Medium-Voltage Electrical Distribution</b>	<b>26 10</b>	
<b>Medium-Voltage Switchgear</b>	<b>26 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section <sup>(26 13 16)</sup> Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <sup>(26 13 16 00-0001)</sup>		
26 13 16 00-0003 EA 1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	10,832.04	1,139.35
For Weatherproofing, Add	2,223.28	
26 13 16 00-0004 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	11,354.58	1,139.35
For Weatherproofing, Add	2,338.24	
26 13 16 00-0005 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	15,420.99	1,451.57
For Weatherproofing, Add	3,200.42	
26 13 16 00-0006 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	20,930.03	1,451.57
For Weatherproofing, Add	4,387.98	
26 13 16 00-0007 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	29,879.67	1,752.84
For Weatherproofing, Add	6,327.74	
26 13 16 00-0008 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	27,330.99	1,752.84
For Weatherproofing, Add	5,754.61	
26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <sup>(26 13 16 00-0001)</sup>		
26 13 16 00-0010 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	16,048.62	1,314.63
For Weatherproofing, Add	3,354.40	
26 13 16 00-0011 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,732.94	1,643.29
For Weatherproofing, Add	4,110.96	
26 13 16 00-0012 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	27,644.20	1,971.95
For Weatherproofing, Add	5,812.65	
26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <sup>(26 13 16 00-0001)</sup>		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	15,515.84	1,314.63
For Weatherproofing, Add	3,222.72	
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	21,286.01	1,314.63
For Weatherproofing, Add	4,460.64	
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	30,971.31	1,752.84
For Weatherproofing, Add	6,555.48	
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,525.61	1,752.84
For Weatherproofing, Add	4,052.18	
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	28,207.79	2,191.05
For Weatherproofing, Add	5,930.85	
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	39,331.43	2,191.05
For Weatherproofing, Add	8,344.94	
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	27,194.32	2,191.05
For Weatherproofing, Add	5,698.73	
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	37,563.31	2,191.05
For Weatherproofing, Add	7,948.35	
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	48,571.37	2,191.05
For Weatherproofing, Add	10,340.27	
26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <sup>(26 13 16 00-0001)</sup>		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,916.55	717.57
For Weatherproofing, Add	981.00	
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,333.17	717.57
For Weatherproofing, Add	1,292.66	
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,914.53	953.10
For Weatherproofing, Add	1,388.06	
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,568.20	1,177.69
For Weatherproofing, Add	1,720.09	
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,435.33	1,177.69
For Weatherproofing, Add	2,350.85	
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <sup>(26 13 16 00-0001)</sup>		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,195.97	1,095.53
For Weatherproofing, Add	1,248.48	
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,101.08	1,095.53
For Weatherproofing, Add	1,635.33	
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,271.49	1,095.53
For Weatherproofing, Add	2,520.97	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 13 Medium-Voltage Switchgear**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>					
26 13 16 00-0034	EA		1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,412.09	931.20
			<i>For Weatherproofing, Add</i>	1,280.90	
26 13 16 00-0035	EA		1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,822.07	931.20
			<i>For Weatherproofing, Add</i>	1,371.10	
26 13 16 00-0036	EA		1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,728.45	1,150.30
			<i>For Weatherproofing, Add</i>	1,978.47	
26 13 16 00-0037	EA		2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,768.86	1,380.36
			<i>For Weatherproofing, Add</i>	1,735.50	
26 13 16 00-0038	EA		2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,700.89	1,380.36
			<i>For Weatherproofing, Add</i>	2,160.54	
26 13 16 00-0039	EA		2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,311.00	1,610.42
			<i>For Weatherproofing, Add</i>	2,482.21	
26 13 16 00-0040	EA		3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,623.05	1,840.49
			<i>For Weatherproofing, Add</i>	2,298.87	
26 13 16 00-0041	EA		3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,946.94	1,840.49
			<i>For Weatherproofing, Add</i>	2,590.12	
26 13 16 00-0042	EA		3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,897.07	2,059.59
			<i>For Weatherproofing, Add</i>	3,206.88	
<b>26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)</b>					
26 13 16 00-0044	EA		1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	3,187.37	694.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	416.55	
26 13 16 00-0045	EA		2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	3,957.35	770.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	462.25	
26 13 16 00-0046	EA		3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	5,143.48	926.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	556.10	
26 13 16 00-0047	EA		3-Phase Pothead Termination Accessories, Secondary Distribution Section.....	3,478.38	1,393.84
26 13 16 00-0048	EA		5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	3,758.03	92.92
26 13 16 00-0049	EA		5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	5,009.39	92.92
26 13 16 00-0050	EA		5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,148.10	92.92
26 13 16 00-0051	EA		15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,195.86	92.92
26 13 16 00-0052	EA		15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,852.75	92.92
26 13 16 00-0053	EA		15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,678.27	92.92
26 13 16 00-0054	EA		6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	1,718.99	92.92
26 13 16 00-0055	EA		9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	1,938.95	92.92
26 13 16 00-0056	EA		15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,929.34	92.92
26 13 16 00-0057	EA		Overcurrent Phase Protection, Time And Instantaneous Device 67.....	1,886.04	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0058	EA		AC Ammeter With Switch.....	756.54	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0059	EA		AC Voltmeter With Switch And Potential Transformer.....	756.54	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0060	EA		Indicating Wattmeter.....	1,103.71	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0061	EA		Indicating Varmeter.....	1,296.32	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0062	EA		Indicating Watt-hour Meter, 2 Element.....	825.50	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0063	EA		Ground Protection, Time Or Instantaneous Device 67N.....	2,281.89	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 13 16 00-0064	EA		Differential Generator Protection Single Phase NEMA Device 87.....	3,554.72	92.92
26 13 16 00-0065	EA		Current Transformers 5 And 15 KV Single Secondary.....	522.92	92.92
26 13 16 00-0066	EA		Potential Transformers 5 KV And 15 KV With Primary Fuses.....	2,382.42	92.92
<b>26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)</b>					
<b>26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)</b>					
26 13 19 00-0002	EA		1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	38,386.81	1,369.40
26 13 19 00-0003	EA		1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	42,415.98	1,730.93
26 13 19 00-0004	EA		1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	48,167.88	1,730.93
26 13 19 00-0005	EA		2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	43,943.97	1,369.40
26 13 19 00-0006	EA		2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	49,383.47	1,369.40
26 13 19 00-0007	EA		2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	56,296.24	1,610.42
26 13 19 00-0008	EA		3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	58,139.05	1,840.49
26 13 19 00-0009	EA		3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	63,606.18	1,840.49
26 13 19 00-0010	EA		3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	69,516.70	2,070.55
<b>26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)</b>					
<b>26 13 29 00-0001 Substation Secondary Distribution Section (26 13 29)</b>					
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.					
<b>26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)</b>					
Note: With solid state long - time and instantaneous trips.					
26 13 29 00-0003	EA		800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	12,282.10	892.96
26 13 29 00-0004	EA		1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	19,487.02	1,350.07
26 13 29 00-0005	EA		2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	26,391.45	1,658.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632 .....	43,633.79	1,924.12
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840 .....	56,025.42	2,189.89
<b>26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker</b> <small>(26 13 29 00-0001)</small>		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section .....	5,440.62	271.08
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section .....	6,286.57	271.08
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section .....	8,224.06	398.65
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section .....	11,721.47	398.65
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section .....	19,537.83	584.68
<b>26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering</b> <small>(26 13 29 00-0001)</small>		
Note: No provisions for future breaker.		
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section .....	2,832.63	302.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		173.24
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section .....	3,532.18	302.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		203.37
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section .....	4,634.88	467.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		292.34
<b>26 13 29 00-0018 Accessories For Substation Secondary Distribution</b> <small>(26 13 29 00-0001)</small>		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section .....	1,503.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section .....	1,187.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section .....	3,593.54	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section .....	3,593.54	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section .....	4,728.11	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section .....	6,101.54	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section .....	2,698.05	106.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		63.59
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section .....	9,258.70	1,569.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		941.99
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800 .....	1,670.74	92.92
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section .....	1,948.75	92.92
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section .....	1,038.40	46.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		27.88
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section .....	7,644.16	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		55.76
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section .....	990.62	46.47
<b>26 18 Medium-Voltage Circuit Protection Devices</b> <small>(26 10)</small>		
<b>26 18 36 Medium-Voltage Enclosed Fuses</b> <small>(26 18)</small>		
26 18 36 00-0001 Sectionalizing Switch <small>(26 18 36)</small>		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units <small>(26 18 36 00-0001)</small>		
Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders <small>(26 18 36 00-0002)</small>		
Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground .....	23,827.31	775.58
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground .....	26,755.25	775.58
<b>26 20 Low-Voltage Electrical Distribution</b> <small>(26)</small>		
<b>26 21 Low-Voltage Electrical Service Entrance</b> <small>(26 20)</small>		
See CSI section 26 05 13 00-0000 for wire and cables.		
<b>26 21 13 Low-Voltage Overhead Electrical Service Entrance</b> <small>(26 21)</small>		
26 21 13 00-0001 Service Drop Cable And Weatherheads <small>(26 21 13)</small>		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors <small>(26 21 13 00-0001)</small>		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral <small>(26 21 13 00-0002)</small>		
26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	6.70	2.61
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	7.99	3.08
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	9.18	3.48
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	11.85	4.38
26 21 13 00-0008 Aluminum Triplex ACSR Neutral <small>(26 21 13 00-0002)</small>		
26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	8.03	3.08



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	9.13	3.48
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	11.54	4.38
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	14.23	5.34
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	18.71	7.07
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	23.49	8.77
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....	29.45	10.43
<b>26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.14	3.48
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.53	4.38
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.82	5.61
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	18.96	7.07
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	21.04	7.83
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	23.91	8.77
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	28.31	10.43
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	33.09	11.53
<b>26 21 13 00-0025 Weatherproof Conduit Hubs</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs .....	46.64	17.90
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs .....	53.17	20.35
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs .....	61.30	22.79
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs .....	84.82	30.52
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs .....	92.95	32.96
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs .....	117.75	38.25
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs .....	150.80	43.14
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs .....	192.11	50.86
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs .....	346.57	101.74
<b>26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	52.39	17.90
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service .....	60.06	20.35
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service .....	68.72	22.79
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service .....	92.33	30.52
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service .....	104.25	32.96
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service .....	136.43	38.25
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service .....	227.24	43.14
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service .....	258.88	50.86
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service .....	427.58	101.74
<b>26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service .....	50.72	17.90
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service .....	57.26	20.35
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service .....	64.93	22.69
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service .....	86.34	30.52
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service .....	96.16	32.96
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service .....	113.31	38.25
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	183.88	43.14
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service .....	237.07	50.86
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service .....	334.27	76.30
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service .....	401.63	101.74
<b>26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC)</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	48.86	17.90
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service .....	55.88	20.35
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service .....	63.44	22.69
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service .....	84.52	30.52
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	92.04	32.96
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service .....	112.65	38.25
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service .....	186.18	43.14
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service .....	208.90	50.86
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	357.80	76.30
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service .....	495.14	101.74
<b>26 21 16 Low-Voltage Underground Electrical Service Entrance</b> <small>(26 21)</small>		
<b>26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial</b> <small>(26 21 16)</small>		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	2,814.74	973.81
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	3,083.10	1,031.11
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial .....	3,439.64	1,095.53
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial .....	3,739.95	1,095.53
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,078.55	1,168.60
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,779.19	1,348.37





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Electrical Service Entrance</b>	<b>26 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	6,024.39	1,752.84
<b>26 22 Low-Voltage Transformers (26 20)</b>		
<b>26 22 13 Low-Voltage Distribution Transformers (26 22)</b>		
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	716.83	259.77
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	923.80	311.72
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,078.96	325.23
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,235.35	337.70
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,605.08	363.67
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 53.88 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 80.81	1,856.81	389.65
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 59.47 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 89.20	2,020.55	415.62
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 55.43 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 83.15	2,043.81	467.58
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 67.45 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 101.18	2,388.09	519.53
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 91.43 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 137.15	3,075.51	623.43
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 118.25 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 177.38	3,819.75	727.34
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 196.15 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 294.22	5,793.21	935.15
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 372.11 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 558.16	9,728.08	1,142.96
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add 600.34 For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add 900.51	14,604.46	1,298.82
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	831.98	311.72
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	931.83	324.70
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,070.88	337.70
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,218.31	363.67
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,856.81	389.65
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,020.55	415.62
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	479.82	185.85
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2.....	38.82	
26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2.....	49.48	
26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2.....	59.00	
26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2.....	70.38	
26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2.....	95.23	
26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2.....	113.86	
26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2.....	139.73	
26 22 13 00-0035 Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	1,220.05	324.70
26 22 13 00-0037 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	1,342.63	337.70
26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	1,452.13	363.67

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 22</b>	<b>Low-Voltage Transformers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers .....	1,719.99	389.65
26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers .....	2,234.37	415.62
<b>26 22 13 00-0041 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade</b> <small>(26 22 13 00-0001)</small>		
26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	897.13	233.79
26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	1,187.15	259.77
26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	1,394.56	311.72
26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	1,518.87	324.70
26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	1,679.40	337.70
26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	2,083.28	363.67
26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer .....	2,609.30	389.65
<b>26 22 13 00-0049 1 Phase, 208/600 Volt, Dry General Purpose Transformer</b> <small>(26 22 13 00-0001)</small>		
26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	3,108.56	389.65
26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	3,237.72	415.62
26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	3,375.08	441.60
26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	4,320.41	467.58
26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	4,498.48	493.55
26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry .....	5,838.33	519.53
<b>26 22 13 00-0056 3 Phase General Purpose "Dry Type" Transformer</b> <small>(26 22 13)</small>		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
<b>26 22 13 00-0057 Packaged Power Supply</b> <small>(26 22 13 00-0056)</small>		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers .....	4,969.19	1,116.98
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		136.76
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		205.14
26 22 13 00-0059 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers .....	5,779.35	1,194.92
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		169.48
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		254.21
26 22 13 00-0060 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers .....	6,756.55	1,298.82
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		207.95
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		311.92
<b>26 22 13 00-0061 Drive Isolation Transformers</b> <small>(26 22 13 00-0056)</small>		
Note: Only use in step-up applications.		
<b>26 22 13 00-0062 230 Volt Drive Isolation Transformers</b> <small>(26 22 13 00-0061)</small>		
26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	3,252.10	415.62
26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	3,756.83	441.60
26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	3,899.34	467.58
26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	4,539.29	493.55
26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	4,736.17	545.50
26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	5,204.72	597.45
26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	5,856.79	649.41
26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	6,784.18	727.34
26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	7,305.81	753.32
26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	8,336.97	779.30
26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	10,300.25	805.27
26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	11,652.79	987.10
26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	12,931.50	1,039.05
26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	14,707.67	1,091.01
26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	17,906.38	1,298.82
26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	23,522.33	1,532.61
26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	24,903.81	1,688.47
26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	30,129.71	1,870.30
26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	36,942.19	2,078.11
<b>26 22 13 00-0082 208V Drive Isolation Transformers</b> <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	3,375.32	415.62
26 22 13 00-0084 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	3,903.10	441.60
26 22 13 00-0085 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	4,050.21	467.58
26 22 13 00-0086 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	4,720.10	493.55
26 22 13 00-0087 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	4,921.71	545.50
26 22 13 00-0088 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	5,356.86	571.48
26 22 13 00-0089 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	6,140.74	675.38
26 22 13 00-0090 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	7,055.45	727.34
26 22 13 00-0091 EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	7,600.99	753.32
26 22 13 00-0092 EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	8,681.99	779.30
26 22 13 00-0093 EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	10,742.55	805.27
26 22 13 00-0094 EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	12,145.43	987.10
26 22 13 00-0095 EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	13,483.94	1,039.05
26 22 13 00-0096 EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	15,345.23	1,091.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0097 EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers .....	18,685.59	1,298.82
<b>26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	2,434.62	428.61
26 22 13 00-0100 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	3,099.54	467.58
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	108.22	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	162.33	
<b>26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	3,520.48	571.48
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	118.88	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	178.31	
<i>For K4 Factor Rating, Add</i>	1,664.26	
<i>For K13 Factor Rating, Add</i>	2,377.52	
<i>For K20 Factor Rating, Add</i>	3,090.78	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	4,185.62	623.43
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	146.94	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	220.41	
<i>For K4 Factor Rating, Add</i>	2,057.13	
<i>For K13 Factor Rating, Add</i>	2,938.75	
<i>For K20 Factor Rating, Add</i>	3,820.38	
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	4,399.00	675.38
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	152.41	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	228.62	
<i>For K4 Factor Rating, Add</i>	2,133.76	
<i>For K13 Factor Rating, Add</i>	3,048.23	
<i>For K20 Factor Rating, Add</i>	3,962.70	
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	5,620.94	727.34
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	208.31	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	312.47	
<i>For K4 Factor Rating, Add</i>	2,916.38	
<i>For K13 Factor Rating, Add</i>	4,166.26	
<i>For K20 Factor Rating, Add</i>	5,416.14	
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	5,603.39	779.30
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	202.24	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	303.36	
<i>For K4 Factor Rating, Add</i>	2,831.37	
<i>For K13 Factor Rating, Add</i>	4,044.81	
<i>For K20 Factor Rating, Add</i>	5,258.25	
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	6,940.93	935.15
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	253.53	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	380.30	
<i>For K4 Factor Rating, Add</i>	3,549.44	
<i>For K13 Factor Rating, Add</i>	5,070.63	
<i>For K20 Factor Rating, Add</i>	6,591.82	
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	8,840.58	1,039.05
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	338.12	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	507.19	
<i>For K4 Factor Rating, Add</i>	4,733.73	
<i>For K13 Factor Rating, Add</i>	6,762.47	
<i>For K20 Factor Rating, Add</i>	8,791.21	
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	11,941.27	1,298.82
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	467.18	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	700.77	
<i>For K4 Factor Rating, Add</i>	6,540.53	
<i>For K13 Factor Rating, Add</i>	9,343.62	
<i>For K20 Factor Rating, Add</i>	12,146.71	
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	14,582.22	1,610.53
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	568.06	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	852.09	
<i>For K4 Factor Rating, Add</i>	7,952.80	
<i>For K13 Factor Rating, Add</i>	11,361.14	
<i>For K20 Factor Rating, Add</i>	14,769.48	
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	20,584.97	1,974.21
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	831.83	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,247.74	
<i>For K4 Factor Rating, Add</i>	11,645.59	
<i>For K13 Factor Rating, Add</i>	16,636.56	
<i>For K20 Factor Rating, Add</i>	21,627.53	
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	45,360.03	2,378.46
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,029.02	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,043.53	
<i>For K4 Factor Rating, Add</i>	28,406.26	
<i>For K13 Factor Rating, Add</i>	40,580.37	
<i>For K20 Factor Rating, Add</i>	52,754.48	
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	59,222.77	2,597.65
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,701.37	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,052.06	
<i>For K4 Factor Rating, Add</i>	37,819.24	
<i>For K13 Factor Rating, Add</i>	54,027.49	
<i>For K20 Factor Rating, Add</i>	70,235.74	

**26 Electrical**

**26 20 Low-Voltage Electrical Distribution**

**26 22 Low-Voltage Transformers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0114			<b>480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115	EA		6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	2,034.69	402.63
			<i>For K4 Factor Rating, Add</i> .....	860.59	
			<i>For K13 Factor Rating, Add</i> .....	1,229.42	
			<i>For K20 Factor Rating, Add</i> .....	1,598.25	
26 22 13 00-0116	EA		9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	2,434.62	428.61
			<i>For K4 Factor Rating, Add</i> .....	1,104.18	
			<i>For K13 Factor Rating, Add</i> .....	1,577.40	
			<i>For K20 Factor Rating, Add</i> .....	2,050.62	
26 22 13 00-0117	EA		15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	3,099.54	467.58
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	108.22	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	162.33	
			<i>For K4 Factor Rating, Add</i> .....	1,515.07	
			<i>For K13 Factor Rating, Add</i> .....	2,164.39	
			<i>For K20 Factor Rating, Add</i> .....	2,813.71	
26 22 13 00-0118			<b>480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0119	EA		30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	5,668.67	571.48
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	226.29	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	339.43	
			<i>For K4 Factor Rating, Add</i> .....	3,168.00	
			<i>For K13 Factor Rating, Add</i> .....	4,525.71	
			<i>For K20 Factor Rating, Add</i> .....	5,883.42	
26 22 13 00-0120	EA		45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	6,386.99	675.38
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	251.81	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	377.72	
			<i>For K4 Factor Rating, Add</i> .....	3,525.35	
			<i>For K13 Factor Rating, Add</i> .....	5,036.22	
			<i>For K20 Factor Rating, Add</i> .....	6,547.09	
26 22 13 00-0121	EA		75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	9,218.07	779.30
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	382.97	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	574.46	
			<i>For K4 Factor Rating, Add</i> .....	5,361.64	
			<i>For K13 Factor Rating, Add</i> .....	7,659.49	
			<i>For K20 Factor Rating, Add</i> .....	9,957.34	
26 22 13 00-0122	EA		112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	11,531.66	935.15
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	483.07	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	724.60	
			<i>For K4 Factor Rating, Add</i> .....	6,762.95	
			<i>For K13 Factor Rating, Add</i> .....	9,661.36	
			<i>For K20 Factor Rating, Add</i> .....	12,559.77	
26 22 13 00-0123	EA		150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	13,806.34	1,039.05
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	586.41	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	879.62	
			<i>For K4 Factor Rating, Add</i> .....	8,209.76	
			<i>For K13 Factor Rating, Add</i> .....	11,728.23	
			<i>For K20 Factor Rating, Add</i> .....	15,246.70	
26 22 13 00-0124	EA		225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	17,666.15	1,298.82
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	753.43	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	1,130.14	
			<i>For K4 Factor Rating, Add</i> .....	10,547.95	
			<i>For K13 Factor Rating, Add</i> .....	15,068.50	
			<i>For K20 Factor Rating, Add</i> .....	19,589.05	
26 22 13 00-0125	EA		300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	21,509.40	1,610.53
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	914.42	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	1,371.62	
			<i>For K4 Factor Rating, Add</i> .....	12,801.82	
			<i>For K13 Factor Rating, Add</i> .....	18,288.32	
			<i>For K20 Factor Rating, Add</i> .....	23,774.82	
26 22 13 00-0126	EA		500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry .....	33,985.99	1,974.21
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	1,501.88	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> .....	2,252.82	
			<i>For K4 Factor Rating, Add</i> .....	21,026.31	
			<i>For K13 Factor Rating, Add</i> .....	30,037.58	
			<i>For K20 Factor Rating, Add</i> .....	39,048.85	
26 22 13 00-0127			<b>3 Phase 60 Hz K20 Dry Type Transformers</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0128			<b>3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise</b> <small>(26 22 13 00-0127)</small>		
			<small>Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.</small>		
26 22 13 00-0129	EA		15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	2,925.55	467.58
26 22 13 00-0130	EA		30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	4,295.85	571.48
26 22 13 00-0131	EA		45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	6,151.81	675.38
26 22 13 00-0132	EA		75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	7,782.15	779.30
26 22 13 00-0133	EA		112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	11,470.47	935.15
26 22 13 00-0134	EA		150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	13,859.88	1,039.05
26 22 13 00-0135	EA		225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	16,203.47	1,298.82
26 22 13 00-0136	EA		300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20 .....	25,312.37	1,610.53





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 22 13 00-0137</b> <b>3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise</b> <small>(26 22 13 00-0127)</small>		
<small>Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.</small>		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	3,325.15	467.58
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	4,926.82	571.48
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	7,111.64	675.38
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	9,024.95	779.30
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	13,390.12	935.15
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	16,217.38	1,039.05
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	18,924.25	1,298.82
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	29,731.01	1,610.53
<b>26 22 13 00-0146</b> <b>NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0056)</small>		
<b>26 22 13 00-0147</b> <b>Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0146)</small>		
<small>Note: Two taps at 2.5%, four at -2.5%.</small>		
<b>26 22 13 00-0148</b> <b>150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>		
26 22 13 00-0149 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,030.28	465.35
26 22 13 00-0150 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,696.65	568.76
26 22 13 00-0151 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,453.98	672.18
26 22 13 00-0152 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,957.38	775.58
26 22 13 00-0153 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,951.02	930.70
26 22 13 00-0154 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,868.88	1,034.11
26 22 13 00-0155 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,070.47	1,292.64
26 22 13 00-0156 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	18,360.69	1,602.88
<b>26 22 13 00-0157</b> <b>115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,661.99	465.35
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,461.83	568.76
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,387.08	672.18
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,279.45	775.58
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,315.60	930.70
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,209.07	1,034.11
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	16,216.23	1,292.64
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,907.17	1,602.88
<b>26 22 13 00-0166</b> <b>80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,291.15	465.35
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,229.15	568.76
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,320.19	672.18
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,599.40	775.58
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,037.26	930.70
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,549.26	1,034.11
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,362.00	1,292.64
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,453.66	1,602.88
<b>26 22 13 00-0175</b> <b>Copper Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0146)</small>		
<small>Note: Two taps at 2.5%, four at -2.5%.</small>		



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 22 13 00-0176		<b>150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	4,080.71	465.35
26 22 13 00-0178	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	4,974.09	568.76
26 22 13 00-0179	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	6,007.73	672.18
26 22 13 00-0180	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	8,159.41	775.58
26 22 13 00-0181	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	11,062.77	930.70
26 22 13 00-0182	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	13,849.97	1,034.11
26 22 13 00-0183	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	18,420.39	1,292.64
26 22 13 00-0184	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	26,095.45	1,602.88
26 22 13 00-0185		<b>115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	4,709.87	465.35
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	5,741.40	568.76
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	6,940.84	672.18
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	9,481.49	775.58
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	14,412.59	930.70
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	18,156.26	1,034.11
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	23,173.05	1,292.64
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	34,489.12	1,602.88
26 22 13 00-0194		<b>80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	5,341.15	465.35
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	6,508.71	568.76
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	7,873.94	672.18
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	10,801.43	775.58
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	17,103.49	930.70
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	22,060.84	1,034.11
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	27,923.58	1,292.64
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer .....	41,192.99	1,602.88
26 22 13 00-0203		<b>3 Phase Weathershields</b> <small>(26 22 13 00-0056)</small> Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204	EA	45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	525.80	
26 22 13 00-0205	EA	150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	892.91	
26 22 13 00-0206	EA	500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	892.91	
26 22 13 00-0207		<b>Three Phase Mounting Brackets</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208	EA	3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA .....	652.38	185.85
26 22 13 00-0209		<b>Pad Mounted Commercial Type Distribution Transformers UL Listed</b> <small>(26 22 13)</small>		
26 22 13 00-0210		<b>Distribution 3 Phase Oil Filled Transformer</b> <small>(26 22 13 00-0209)</small> Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211		<b>Factory Modifications</b> <small>(26 22 13 00-0210)</small> Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212	EA	Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification .....	963.46	
26 22 13 00-0213	EA	Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification .....	156.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	626.68	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification .....	1,805.49	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	221.18	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	175.10	
<b>26 22 13 00-0218 Accessories For Transformer Liquid Containment Area</b> <small>(26 22 13 00-0210)</small>		
<small>Note: Reinforced concrete curb with 6" slab.</small>		
26 22 13 00-0219 EA Containment Area For 75 KVA.....	4,988.80	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,228.46</i>	
26 22 13 00-0220 EA Containment Area For 112.5 KVA.....	4,988.80	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,228.46</i>	
26 22 13 00-0221 EA Containment Area For 150 KVA.....	4,988.80	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,228.46</i>	
26 22 13 00-0222 EA Containment Area For 225 KVA.....	4,988.80	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,228.46</i>	
26 22 13 00-0223 EA Containment Area For 300 KVA.....	4,982.19	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,226.48</i>	
26 22 13 00-0224 EA Containment Area For 500 KVA.....	4,982.19	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,226.48</i>	
26 22 13 00-0225 EA Containment Area For 750 KVA.....	5,007.99	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,226.48</i>	
26 22 13 00-0226 EA Containment Area For 1,000 KVA.....	5,382.15	1,842.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,226.48</i>	
<b>26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL</b> <small>(26 22 13 00-0210)</small>		
<small>Note: Rated to 5 KVA.</small>		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	6,837.26	1,240.93
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,390.21	1,240.93
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,758.85	1,240.93
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,864.75	1,240.93
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,882.36	1,861.41
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,251.00	1,861.41
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	14,674.60	1,861.41
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	18,835.41	2,481.87
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	23,627.65	2,481.87
<b>26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL</b> <small>(26 22 13 00-0210)</small>		
<small>Note: Rated to 5 KVA.</small>		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,021.58	1,240.93
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,758.85	1,240.93
26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,943.16	1,240.93
26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,127.48	1,240.93
26 22 13 00-0242 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,882.36	1,861.41
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,619.63	1,861.41
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	14,674.60	1,861.41
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	19,019.72	2,481.87
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	23,627.65	2,481.87
<b>26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt</b> <small>(26 22 13 00-0209)</small>		
<small>Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.</small>		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	11,601.10	1,606.08
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	12,878.61	1,896.01
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	14,742.39	2,317.34
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	17,342.60	2,607.27
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	20,626.27	2,744.41
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	25,986.49	4,009.98
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	30,259.68	4,536.65
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	37,238.47	5,214.54

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 22</b>	<b>Low-Voltage Transformers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	40,714.66	5,475.26
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	43,485.58	6,101.22
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	49,238.15	6,518.39
<b>26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled</b> <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled .....	43,740.91	4,608.53
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled .....	53,471.51	5,299.83
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled .....	60,375.14	5,578.73
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled .....	64,420.49	6,235.08
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled .....	71,685.26	6,424.02
<b>26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase</b> <small>(26 22 13 00-0209)</small>		
Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	18,720.10	1,896.01
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	20,513.32	2,317.34
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	23,886.45	2,607.27
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	28,329.52	2,744.41
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	35,031.51	4,009.98
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	43,664.38	4,536.65
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	52,723.14	5,214.54
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	59,578.88	5,475.26
<b>26 22 13 00-0274 Foam Core Poly Transformer Pads</b> <small>(26 22 13)</small>		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	171.34	33.52
Note: Excludes site prep.		
<b>26 24 Switchboards And Panelboards</b> <small>(26 20)</small>		
<b>26 24 13 Switchboards</b> <small>(26 24)</small>		
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
<b>26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0002 Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0001)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	3,699.17	889.88
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	4,100.67	941.26
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	6,688.46	1,067.72
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	7,205.68	1,144.63
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	11,650.94	1,220.41
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	13,001.45	1,297.64
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	4,505.69	889.88
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,800.40	941.26
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,119.90	1,068.63
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,153.18	1,144.63
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,650.94	1,221.64
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,001.45	1,297.64
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,655.33	1,356.64
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	17,757.73	1,453.39
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	20,983.70	1,566.73
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,484.41	788.45
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,749.72	839.42
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,148.84	966.28
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,399.29	1,006.88
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,624.15	1,043.19
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,974.94	1,118.48
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,298.73	1,195.19
<b>26 24 13 00-0025 Branch Breaker Units</b> <small>(26 24 13 00-0001)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker .....	323.80	31.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.62	
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker .....	473.93	48.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	29.30	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker .....	1,279.01	89.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	53.41	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker .....	2,276.86	115.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	69.59	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker .....	4,044.35	284.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	170.89	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker .....	6,499.88	284.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	170.89	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker .....	10,531.53	507.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	304.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)</b>		
<b>26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)</b>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	5,242.96	1,154.70
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	5,865.48	1,154.70
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	8,761.19	1,500.60
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	9,941.17	1,500.60
<b>26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)</b>		
<b>26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)</b>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	3,330.52	788.45
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	3,713.90	839.42
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	5,736.20	966.28
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	6,233.46	1,042.38
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker .....	4,096.13	788.45
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker .....	5,196.05	839.42
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker .....	7,326.32	966.28
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker .....	10,570.31	1,042.38
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker .....	12,417.15	1,169.95
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	2,312.33	686.61
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	2,595.89	737.68
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	3,047.57	864.55
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	3,284.21	905.14
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	3,513.61	941.26
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	3,814.92	1,006.88
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	4,110.07	1,067.72
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	5,102.45	1,322.56
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	5,715.52	1,449.73
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug .....	6,745.62	1,564.18
<b>26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)</b>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker .....	172.69	26.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	16.18	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker .....	274.05	44.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	26.86	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker .....	844.95	62.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	37.54	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker .....	2,442.86	80.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	48.22	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker .....	3,838.56	195.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	117.50	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker .....	5,467.94	195.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	117.50	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker .....	9,009.28	373.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	224.35	
<b>26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)</b>		
<b>26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)</b>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	3,700.41	889.88
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	4,099.28	941.26
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	6,686.66	1,067.72
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	7,203.61	1,144.63
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	11,646.25	1,220.41
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	13,001.44	1,297.64
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	4,506.93	889.88
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	5,799.01	941.26
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	8,119.90	1,068.63
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	11,151.11	1,144.63
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	11,648.59	1,221.64
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	13,001.44	1,297.64
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	2,612.34	788.45
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	2,927.02	839.42
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,414.81	966.28
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,679.14	1,006.88
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,935.05	1,043.19
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	4,273.66	1,118.48
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	4,616.90	1,195.19
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	5,489.60	1,358.17
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	6,081.33	1,453.29
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	7,203.31	1,561.64



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 24 13 00-0092</b>		<b>Branch Breaker Units</b> <small>(26 24 13 00-0068)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.				
26 24 13 00-0093	EA	15 To 60 Amperes, 120/208 Volt, MC Branch Breaker	323.80	31.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.62	
26 24 13 00-0094	EA	70 To 100 Amperes, 120/208 Volt, MC Branch Breaker	473.93	48.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.30	
26 24 13 00-0095	EA	125 To 225 Amperes, 120/208 Volt, MC Branch Breaker	1,279.01	89.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.41	
26 24 13 00-0096	EA	100 To 400 Amperes, 120/208 Volt, MC Branch Breaker	2,276.86	115.98
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.59	
26 24 13 00-0097	EA	300 To 600 Amperes, 120/208 Volt, MC Branch Breaker	4,044.35	284.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.89	
26 24 13 00-0098	EA	400 To 800 Amperes, 120/208 Volt, MC Branch Breaker	6,499.88	284.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.89	
26 24 13 00-0099	EA	600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker	10,531.53	507.66
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	304.60	
<b>26 24 13 00-0100</b>		<b>Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0101</b>		<b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.				
26 24 13 00-0102	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,786.79	1,220.41
26 24 13 00-0103	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,260.22	1,297.64
26 24 13 00-0104	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,541.20	1,448.41
26 24 13 00-0105	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,248.32	1,550.86
26 24 13 00-0106	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,156.07	1,220.41
26 24 13 00-0107	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	8,329.23	1,297.64
26 24 13 00-0108	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,440.55	1,450.03
26 24 13 00-0109	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	11,963.52	1,550.86
26 24 13 00-0110	EA	1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,512.77	1,653.71
26 24 13 00-0111	EA	2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	13,919.11	1,756.46
26 24 13 00-0112	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	2,612.34	788.45
26 24 13 00-0113	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	2,927.02	839.42
26 24 13 00-0114	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,414.81	966.28
26 24 13 00-0115	EA	1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,679.14	1,006.88
26 24 13 00-0116	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,935.05	1,043.19
26 24 13 00-0117	EA	1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,273.66	1,118.48
26 24 13 00-0118	EA	2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,616.90	1,195.19
<b>26 24 13 00-0119</b>		<b>Branch Breaker Units</b> <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.				
26 24 13 00-0120	EA	15 To 60 Amperes, 480/277 Volt, MC Branch Breaker	675.52	31.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.62	
26 24 13 00-0121	EA	70 To 100 Amperes, 480/277 Volt, MC Branch Breaker	776.58	48.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.30	
26 24 13 00-0122	EA	125 To 225 Amperes, 480/277 Volt, MC Branch Breaker	1,408.25	89.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.41	
26 24 13 00-0123	EA	100 To 400 Amperes, 480/277 Volt, MC Branch Breaker	2,276.86	115.98
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.59	
26 24 13 00-0124	EA	300 To 600 Amperes, 480/277 Volt, MC Branch Breaker	5,454.52	284.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.89	
26 24 13 00-0125	EA	400 To 800 Amperes, 480/277 Volt, MC Branch Breaker	5,580.49	284.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.89	
26 24 13 00-0126	EA	600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker	8,946.31	507.66
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	304.60	
<b>26 24 13 00-0127</b>		<b>Fusible Branch Circuit Switch</b> <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.				
<b>26 24 13 00-0128</b>		<b>240 Volt, 2 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129	EA	30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	688.41	79.87
		<i>For Electrical Interlock Kit, Add</i>	285.99	
26 24 13 00-0130	EA	30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	685.96	79.87
		<i>For Electrical Interlock Kit, Add</i>	285.99	
26 24 13 00-0131	EA	60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	685.96	79.87
		<i>For Electrical Interlock Kit, Add</i>	285.99	
26 24 13 00-0132	EA	60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,079.78	105.29
		<i>For Electrical Interlock Kit, Add</i>	285.99	
26 24 13 00-0133	EA	100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,079.78	105.29
		<i>For Electrical Interlock Kit, Add</i>	285.99	
<b>26 24 13 00-0134</b>		<b>240 Volt, 2 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135	EA	100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	789.53	78.33
		<i>For Electrical Interlock Kit, Add</i>	273.97	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	1,156.92 273.97	78.33
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit .....	2,972.10	211.10
<b>26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)</b>		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	884.13 285.99	90.03
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	881.68 285.99	90.03
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	881.68 285.99	90.03
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,330.57 285.99	120.56
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,330.57 285.99	120.56
<b>26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)</b>		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	957.26 285.99	88.51
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	1,556.16 273.97	88.51
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....	3,987.95	236.33
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....	5,700.52	302.76
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....	10,634.66	410.20
<b>26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)</b>		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,254.99 285.99	90.03
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,252.52 285.99	90.03
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,254.99 285.99	90.03
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,890.14 285.99	120.56
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,931.56 285.99	120.56
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,128.53 285.99	157.69
<b>26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)</b>		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	1,356.69 285.99	88.51
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	2,063.25 273.97	88.51
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	5,016.56 273.97	236.33
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....	6,089.86	302.76
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....	10,634.66	410.20
<b>26 24 13 00-0163 Service And Distribution Structures (26 24 13)</b>		
<b>26 24 13 00-0164 Distribution Section 600 Volts, 250 Volts DC (26 24 13 00-0163)</b>		
<b>26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	2,422.92	935.97
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	2,900.33	935.97
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,229.69	1,190.30
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,558.36	1,190.30
<b>26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	2,722.02	1,083.49
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,186.43	1,083.49
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,558.36	1,342.91
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,853.61	1,342.91
<b>26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,184.96	1,322.56
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,660.48	1,322.56
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,055.47	1,627.77
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,488.02	1,627.77
<b>26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,960.14	1,449.73

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,524.57	1,449.73
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,993.03	1,790.54
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,369.83	1,790.54
<b>26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,148.74	1,454.81
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,757.47	1,637.94
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,862.59	1,637.94
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,062.24	1,729.50
<b>26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,756.86	1,637.94
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,860.41	1,637.94
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,060.06	1,729.50
<b>26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,887.30	1,729.50
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,060.06	1,729.50
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,132.15	1,729.50
<b>26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)</b>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard .....	524.77	122.08
26 24 13 00-0200 EA Drilled Bottom For Pull Boy .....	591.48	122.08
26 24 13 00-0201 EA Cable Supports In Pull Box .....	213.41	30.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.96	
<b>26 24 13 00-0202 Underground Pull Sections (26 24 13 00-0164)</b>		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal .....	506.76	142.43
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal .....	881.36	183.12
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal .....	881.36	183.12
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal .....	658.45	142.43
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal .....	945.10	208.56
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal .....	1,077.55	208.56
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal .....	1,128.06	269.60
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal .....	1,189.62	269.60
<b>26 24 13 00-0211 Switchboard Sections (26 24 13 00-0163)</b>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit .....	4,097.80	847.77
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit .....	4,488.95	921.52
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit .....	5,627.56	1,177.49
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit .....	6,154.99	1,284.51
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit .....	6,564.45	1,367.42
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section .....	4,899.20	743.69
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated .....	2,763.81	706.45
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated .....	3,064.00	766.07
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus .....	5,238.81	847.77
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker .....	5,645.71	850.00
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker .....	6,207.84	948.99
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame .....	153.69	50.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.07	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame .....	187.77	51.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.70	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame .....	883.25	61.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.07	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame .....	1,467.15	131.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.10	
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....	580.98	183.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.59	
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....	1,656.15	106.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.07	
<b>26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)</b>		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	2,124.09	441.53
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	3,024.31	597.09
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	3,387.66	726.69
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	4,262.99	1,017.35
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	5,281.59	1,271.69
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	5,833.13	1,271.69
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	7,189.53	1,695.62
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	8,247.09	1,695.62
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	9,695.62	2,018.53
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	11,641.63	2,018.53



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0240				<b>Main Devices</b> <small>(26 24 13)</small>		
26 24 13 00-0241				<b>Power Circuit Breakers</b> <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242				<b>DSL Breaker With Current Limiters And Amptector</b> <small>(26 24 13 00-0241)</small> Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA			50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip .....7,500.71		1,068.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....639.58		
26 24 13 00-0244	EA			50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip .....13,703.28		1,780.37
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,067.16		
26 24 13 00-0245	EA			1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip .....30,965.17		2,991.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,778.59		
26 24 13 00-0246	EA			4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip .....49,868.20		4,842.60
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....2,957.42		
26 24 13 00-0247	EA			Ground-Fault Trip All Power Breakers - Factory Installed .....2,648.31		
26 24 13 00-0248	EA			Key Interlock All Power Breakers - Factory Installed .....342.02		
26 24 13 00-0249	EA			Short Time Delay Selective Trip - Factory Installed .....448.71		
26 24 13 00-0250	EA			Shunt Trip Manually Open Breakers - Factory Installed .....323.19		
26 24 13 00-0251				<b>DSL Breaker Electrical Operated And Amptector</b> <small>(26 24 13 00-0241)</small> Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252	EA			50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip .....8,800.52		1,119.09
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....674.64		
26 24 13 00-0253	EA			50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip .....16,369.16		1,882.10
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,123.73		
26 24 13 00-0254	EA			1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip .....34,808.20		3,102.93
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,870.14		
26 24 13 00-0255	EA			4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip .....53,719.11		5,086.76
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....3,127.11		
26 24 13 00-0256				<b>DS Breakers With Amptector Static Trip, Manually Operated</b> <small>(26 24 13 00-0241)</small> Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257	EA			50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip .....5,957.15		976.66
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....586.94		
26 24 13 00-0258	EA			50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip .....10,915.41		1,637.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....978.22		
26 24 13 00-0259	EA			2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip .....16,148.61		2,746.86
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,630.37		
26 24 13 00-0260	EA			1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip .....27,885.85		4,425.49
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....2,715.36		
26 24 13 00-0261	EA			4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip .....45,363.93		7,223.21
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....4,514.88		
26 24 13 00-0262				<b>DS Breakers With Amptector Static Trip, Electrically Operated</b> <small>(26 24 13 00-0241)</small> Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263	EA			50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....7,049.67		935.97
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....559.81		
26 24 13 00-0264	EA			50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....13,175.34		1,566.73
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....932.78		
26 24 13 00-0265	EA			2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....18,723.93		2,604.43
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....1,557.17		
26 24 13 00-0266	EA			1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....30,897.99		4,242.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....2,595.29		
26 24 13 00-0267	EA			4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....48,271.86		7,274.08
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....4,335.32		
26 24 13 00-0268				<b>Molded Case Circuit Breakers Conventional</b> <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269	EA			70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....2,489.67		854.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....492.27		
26 24 13 00-0270	EA			125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....3,672.22		854.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....535.45		
26 24 13 00-0271	EA			300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....4,074.47		1,017.35
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....586.94		
26 24 13 00-0272	EA			400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....4,854.08		1,017.35
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....635.84		
26 24 13 00-0273	EA			600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....7,245.93		1,220.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....696.82		
26 24 13 00-0274	EA			1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....11,770.68		1,220.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....770.72		
26 24 13 00-0275	EA			Shunt Trip, Factory Installed .....338.88		
26 24 13 00-0276	EA			Groundfault Trip Complete Interrupting Circuit, Factory Installed .....78.45		
26 24 13 00-0277				<b>Switchboard Branch Breaker 480 Volt</b> <small>(26 24 13 00-0240)</small>		

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	528.58	73.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.23	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	622.31	97.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.70	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	1,814.06	147.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.42	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	2,398.93	184.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.90	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	2,900.97	247.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.73	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	3,501.52	317.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	190.76	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	5,634.90	484.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.67	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	5,634.90	484.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.67	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	7,903.42	678.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	406.94	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....	9,843.45	1,017.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	610.41	
<b>26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)</b>		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,411.54	441.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.94	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,495.48	483.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.12	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,981.78	726.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	436.01	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	11,966.36	1,017.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	610.41	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	12,182.43	1,125.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	675.23	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	16,025.35	2,018.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,211.14	
<b>26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)</b>		
<b>26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)</b>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	395.93	36.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	405.27	45.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	941.19	54.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,359.45	71.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,909.18	87.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.60	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	2,493.10	102.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.67	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	3,780.58	115.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.52	
<b>26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)</b>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	274.18	27.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	353.10	36.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	932.35	45.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,463.54	50.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.57	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,554.69	66.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.26	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	3,490.06	96.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.09	
<b>26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)</b>		
Note: Factory installed accessories.		
<b>26 24 13 00-0312 Instrument Transformers And Metering Compartments (26 24 13 00-0311)</b>		
26 24 13 00-0313 EA Uo To 800 Amperes, Primary Current Transformer, With Compartment.....	409.48	
26 24 13 00-0314 EA 1,000 To 1,500 Amperes, Primary Current Transformer, With Compartment .....	591.48	
26 24 13 00-0315 EA 2,000 To 6,000 Amperes, Primary Current Transformer, With Compartment .....	696.59	
26 24 13 00-0316 EA Potential Transformer With 200 VA Max .....	502.05	
26 24 13 00-0317 EA 5 To 800 Amperes, Three Current Transformers .....	1,681.73	
26 24 13 00-0318 EA 1,000 To 1,500 Amperes, Three Current Transformers .....	2,999.65	
26 24 13 00-0319 EA 2,000 To 4,000 Amperes, Three Current Transformers .....	3,903.29	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 13 00-0320</b>				<b>Instruments</b> <small>(26 24 13 00-0311)</small>		
				26 24 13 00-0321 EA AC Voltmeter.....	558.53	
				26 24 13 00-0322 EA AC Ammeter.....	558.53	
				26 24 13 00-0323 EA AC Wattmeter.....	1,492.03	
				26 24 13 00-0324 EA Variometer.....	1,685.00	
				26 24 13 00-0325 EA Power Factor Meter.....	1,346.12	
				26 24 13 00-0326 EA Frequency Meter.....	1,485.75	
				26 24 13 00-0327 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,890.53	
				26 24 13 00-0328 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,162.91	
				26 24 13 00-0329 EA Weatherproof, Modify Meter.....	3,008.91	
				26 24 13 00-0330 EA Control Switch Resistor Type 130 V.....	69.49	
				26 24 13 00-0331 EA Metering Instrument: Voltage, Amperes And Watt Hour.....	3,815.26	
<b>26 24 16</b>				<b>Panelboards</b> <small>(26 24)</small>		
<b>26 24 16 00-0001</b>				<b>Branch Circuit Panelboard</b> <small>(26 24 16)</small> Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
<b>26 24 16 00-0002</b>				<b>Assembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small> Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
<b>26 24 16 00-0003</b>				<b>120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
				26 24 16 00-0004 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,124.56	289.95
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0005 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,276.93	289.95
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0006 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,448.92	401.85
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0007 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	1,623.56	401.85
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0008 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	1,787.43	503.59
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0009 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	1,955.58	503.59
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0010 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,118.21	579.89
				<i>For NEMA 3R Panelboard, Add</i>	880.34	
				26 24 16 00-0011 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	2,542.09	742.66
				<i>For NEMA 3R Panelboard, Add</i>	968.14	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
				26 24 16 00-0012 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	2,674.20	742.66
				<i>For NEMA 3R Panelboard, Add</i>	968.14	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
				26 24 16 00-0013 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	2,804.94	849.49
				<i>For NEMA 3R Panelboard, Add</i>	968.14	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
				26 24 16 00-0014 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,016.25	849.49
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
				26 24 16 00-0015 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,146.91	956.31
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
				26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,340.15	956.31
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
				26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	3,457.30	1,058.05
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
				26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	3,652.92	1,058.05
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
				26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	3,831.42	1,169.95
				<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0020	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	3,956.05	1,169.95
			<i>For NEMA 3R Panelboard, Add</i> .....	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	154.42	
26 24 16 00-0021	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,134.62	1,169.95
			<i>For NEMA 3R Panelboard, Add</i> .....	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	154.42	
<b>26 24 16 00-0022</b>			<b>120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,339.13	279.77
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0024	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,493.70	279.77
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0025	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,847.30	478.15
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0026	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,095.73	478.15
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0027	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,262.96	584.98
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0028	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,437.12	584.98
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0029	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,592.19	701.97
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	
26 24 16 00-0030	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,138.12	701.97
			<i>For NEMA 3R Panelboard, Add</i> .....	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	70.74	
26 24 16 00-0031	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,275.86	859.67
			<i>For NEMA 3R Panelboard, Add</i> .....	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	70.74	
26 24 16 00-0032	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,425.15	859.67
			<i>For NEMA 3R Panelboard, Add</i> .....	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	70.74	
26 24 16 00-0033	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,588.28	966.48
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0034	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,721.30	966.48
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0035	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,862.88	1,058.05
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0036	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,014.31	1,058.05
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0037	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,177.21	1,251.34
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0038	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,353.53	1,251.34
			<i>For NEMA 3R Panelboard, Add</i> .....	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	120.82	
26 24 16 00-0039	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,545.72	1,251.34
			<i>For NEMA 3R Panelboard, Add</i> .....	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	154.42	
26 24 16 00-0040	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,665.63	1,322.56
			<i>For NEMA 3R Panelboard, Add</i> .....	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	154.42	
<b>26 24 16 00-0041</b>			<b>120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,359.22	330.64
			<i>For NEMA 3R Panelboard, Add</i> .....	880.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,524.18 880.34	330.64
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,711.70 880.34	442.55
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,909.10 880.34	442.55
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,085.80 880.34	544.28
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,274.43 880.34	544.28
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,452.36 880.34	646.02
26 24 16 00-0049 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,635.46 968.14 70.74	646.02
26 24 16 00-0050 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,806.61 968.14 70.74	757.93
26 24 16 00-0051 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,003.75 968.14 70.74	757.93
26 24 16 00-0052 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,203.80 968.14 70.74	874.93
26 24 16 00-0053 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,400.89 968.14 70.74	874.93
26 24 16 00-0054 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,792.15 1,143.60 120.82	1,058.05
26 24 16 00-0055 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,924.61 1,143.60 120.82	1,058.05
26 24 16 00-0056 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,154.99 1,143.60 120.82	1,175.04
26 24 16 00-0057 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,362.77 1,143.60 120.82	1,175.04
26 24 16 00-0058 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,510.87 1,190.26 154.42	1,281.87
26 24 16 00-0059 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,717.15 1,190.26 154.42	1,281.87
26 24 16 00-0060 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,602.52 1,143.60 120.82	1,137.40
26 24 16 00-0061 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,748.72 1,143.60 120.82	1,195.39
26 24 16 00-0062 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,989.25 1,143.60 120.82	1,258.98
26 24 16 00-0063 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,212.35 1,143.60 120.82	1,332.73
26 24 16 00-0064 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,369.31 1,190.26 154.42	1,373.42
26 24 16 00-0065 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,620.29 1,190.26 154.42	1,457.36

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0066			<b>120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0067	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,624.59 880.34	320.46
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0068	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,791.61 880.34	320.46
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0069	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,991.01 880.34	422.20
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0070	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,270.82 880.34	422.20
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0071	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,674.46 880.34	635.85
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0072	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,847.30 880.34	635.85
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0073	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,034.01 880.34	742.66
			<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0074	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,188.95 968.14 70.74	742.66
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0075	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,398.71 968.14 70.74	859.67
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0076	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,541.03 968.14 70.74	859.67
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0077	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,774.05 968.14 70.74	966.48
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0078	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,974.56 968.14 70.74	966.48
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0079	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,676.28 1,143.60 120.82	1,119.09
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0080	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,881.94 1,143.60 120.82	1,180.13
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0081	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,968.68 1,143.60 120.82	1,180.13
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0082	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,199.13 1,143.60 120.82	1,332.73
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0083	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,361.11 1,190.26 154.42	1,332.73
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0084	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,466.05 1,190.26 154.42	1,332.73
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0085	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,510.16 1,143.60 120.82	1,225.92
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0086	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,734.62 1,143.60 120.82	1,297.12
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0087	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,824.20 1,143.60 120.82	1,332.73
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0088	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,072.68 1,143.60 120.82	1,414.12
			<i>For NEMA 3R Panelboard, Add</i>		
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>		



<b>Electrical</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>
<b>Switchboards And Panelboards</b>	<b>26 24</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0089	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,233.65	1,454.81
			<i>For NEMA 3R Panelboard, Add</i>	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
26 24 16 00-0090	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,384.36	1,505.69
			<i>For NEMA 3R Panelboard, Add</i>	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
<b>26 24 16 00-0091</b>			<b>480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0092	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,538.47	325.55
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0093	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,757.17	325.55
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0094	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,967.14	447.64
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0095	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,185.81	447.64
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0096	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,390.23	559.54
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,605.26	559.54
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,829.32	676.54
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,035.29	676.54
			<i>For NEMA 3R Panelboard, Add</i>	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,260.99	803.71
			<i>For NEMA 3R Panelboard, Add</i>	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,479.16	803.71
			<i>For NEMA 3R Panelboard, Add</i>	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,680.33	915.62
			<i>For NEMA 3R Panelboard, Add</i>	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,895.33	915.62
			<i>For NEMA 3R Panelboard, Add</i>	968.14	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,352.09	1,114.00
			<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,566.87	1,114.00
			<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,795.06	1,220.83
			<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,963.58	1,220.83
			<i>For NEMA 3R Panelboard, Add</i>	1,143.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,216.68	1,348.00
			<i>For NEMA 3R Panelboard, Add</i>	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,399.42	1,348.00
			<i>For NEMA 3R Panelboard, Add</i>	1,190.26	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
<b>26 24 16 00-0110</b>			<b>480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,960.14	345.90
			<i>For NEMA 3R Panelboard, Add</i>	880.34	
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,174.01	376.42
			<i>For NEMA 3R Panelboard, Add</i>	880.34	



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0113 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers .....	2,390.17 880.34	467.98
For NEMA 3R Panelboard, Add		
26 24 16 00-0114 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers, .....	2,871.01 880.34	569.72
For NEMA 3R Panelboard, Add		
26 24 16 00-0115 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,076.86 880.34	630.76
For NEMA 3R Panelboard, Add		
26 24 16 00-0116 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,264.82 880.34	681.62
For NEMA 3R Panelboard, Add		
26 24 16 00-0117 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers .....	3,471.60 880.34	742.66
For NEMA 3R Panelboard, Add		
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....	3,670.71 968.14 70.74	803.71
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,853.21 968.14 70.74	854.58
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers .....	4,048.73 968.14 70.74	905.44
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0121 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,259.99 968.14 70.74	966.48
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0122 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,490.52 968.14 70.74	1,042.79
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0123 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers .....	5,666.09 1,143.60 120.82	1,159.78
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,887.31 1,143.60 120.82	1,230.99
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,045.70 1,143.60 120.82	1,261.52
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,293.96 1,143.60 120.82	1,342.91
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers .....	6,467.79 1,190.26 154.42	1,393.77
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,647.92 1,190.26 154.42	1,437.52
For NEMA 3R Panelboard, Add		
For Door-In-Door (Hinged) Trim Front, Add		
<b>26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> (26 24 16 00-0002)		
26 24 16 00-0130 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,876.01 880.34	356.07
For NEMA 3R Panelboard, Add		
26 24 16 00-0131 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,121.04 880.34	356.07
For NEMA 3R Panelboard, Add		
26 24 16 00-0132 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,359.87 880.34	473.07
For NEMA 3R Panelboard, Add		
26 24 16 00-0133 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,600.61 880.34	473.07
For NEMA 3R Panelboard, Add		
26 24 16 00-0134 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers .....	2,845.16 880.34	584.98
For NEMA 3R Panelboard, Add		
26 24 16 00-0135 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,084.78 880.34	584.98
For NEMA 3R Panelboard, Add		
26 24 16 00-0136 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers .....	3,328.23 880.34	701.97
For NEMA 3R Panelboard, Add		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0137 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,570.69 968.14 70.74	701.97
26 24 16 00-0138 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,835.04 968.14 70.74	824.05
26 24 16 00-0139 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,057.46 968.14 70.74	824.05
26 24 16 00-0140 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,292.13 968.14 70.74	829.14
26 24 16 00-0141 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,541.56 968.14 70.74	829.14
26 24 16 00-0142 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,171.69 1,143.60 120.82	1,149.61
26 24 16 00-0143 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,426.94 1,143.60 120.82	1,149.61
26 24 16 00-0144 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,625.55 1,143.60 120.82	1,210.65
26 24 16 00-0145 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,903.65 1,143.60 120.82	1,292.04
26 24 16 00-0146 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,115.24 1,190.26 154.42	1,292.04
26 24 16 00-0147 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,423.17 1,190.26 154.42	1,414.12
<b>26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small></b>		
26 24 16 00-0149 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,437.15 880.34	437.46
26 24 16 00-0150 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,687.82 880.34	437.46
26 24 16 00-0151 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,929.28 880.34	579.89
26 24 16 00-0152 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,487.91 880.34	579.89
26 24 16 00-0153 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,719.84 880.34	732.50
26 24 16 00-0154 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,951.43 880.34	732.50
26 24 16 00-0155 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	4,175.34 880.34	839.32
26 24 16 00-0156 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,382.65 968.14 70.74	839.32
26 24 16 00-0157 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,602.97 968.14 70.74	956.31
26 24 16 00-0158 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,839.02 968.14 70.74	956.31
26 24 16 00-0159 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,042.68 968.14 70.74	1,058.05

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0160 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers .....	5,256.20	1,058.05
For NEMA 3R Panelboard, Add	968.14	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0161 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers .....	6,892.26	1,251.34
For NEMA 3R Panelboard, Add	1,143.60	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0162 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	7,150.67	1,251.34
For NEMA 3R Panelboard, Add	1,143.60	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0163 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,342.57	1,368.34
For NEMA 3R Panelboard, Add	1,143.60	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,630.81	1,368.34
For NEMA 3R Panelboard, Add	1,143.60	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,839.87	1,495.51
For NEMA 3R Panelboard, Add	1,190.26	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,055.89	1,495.51
For NEMA 3R Panelboard, Add	1,190.26	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,574.82	1,665.41
For NEMA 3R Panelboard, Add	1,190.26	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,658.12	1,999.10
For NEMA 3R Panelboard, Add	1,190.26	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
<b>26 24 16 00-0169 Unassembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small>		
Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
<b>26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
<b>26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	603.21	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	693.30	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	940.75	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,085.17	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,227.36	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,371.16	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,488.05	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,628.80	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,759.55	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,875.60	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,046.76	
For Door-In-Door (Hinged) Trim Front, Add	154.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 16 00-0183</b> Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	896.41	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,014.41	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,622.81	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,800.37	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,966.62	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,433.65	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,629.85	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,807.94	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
<b>26 24 16 00-0192</b> Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,228.80	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,311.74	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,544.30	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,685.74	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,816.61	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,075.99	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,185.14	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,318.74	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,504.30	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,616.07	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,776.17	
<b>26 24 16 00-0204</b> Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,514.85	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,625.10	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,341.94	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,505.21	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,660.73	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,112.87	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,301.91	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,478.21	
<b>26 24 16 00-0213</b> 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
<b>26 24 16 00-0214</b> Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	679.26	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	798.26	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	897.42	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,013.59	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,166.27	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,290.95	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,488.17	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,602.89	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,729.18	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,889.66	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,087.06	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,473.21	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
<b>26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,051.73	
26 24 16 00-0229 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,185.77	
26 24 16 00-0230 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,354.86	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0231 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,013.27	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0232 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,179.32	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0233 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,332.38	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0234 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,235.33	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0235 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,417.03	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0236 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,568.08	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
<b>26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,304.85	
26 24 16 00-0239 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,416.70	
26 24 16 00-0240 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,508.11	
26 24 16 00-0241 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,617.14	
26 24 16 00-0242 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,766.83	
26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,880.20	
26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,193.00	
26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,299.98	
26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,419.12	
26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,634.41	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,818.11	
26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,204.25	
<b>26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,670.17	
26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,796.46	
26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,961.38	
26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,732.40	
26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,884.15	
26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,026.48	
26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,539.17	
26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,727.07	
26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,888.61	
<b>26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	978.38	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,072.37	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,478.28	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		70.74
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,647.13	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		120.82
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,793.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		154.42
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,784.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		70.74
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,878.75	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		120.82
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,040.16	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		154.42
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,142.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		70.74
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,295.91	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		120.82
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,506.12	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		154.42
<b>26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,013.05	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,076.66	
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,253.99	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,373.54	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		70.74
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,608.48	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		120.82
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,391.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		70.74



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,538.72	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,728.33	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,841.16	
For Door-In-Door (Hinged) Trim Front, Add	70.74	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,036.25	
For Door-In-Door (Hinged) Trim Front, Add	120.82	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,214.03	
For Door-In-Door (Hinged) Trim Front, Add	154.42	
<b>26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0280)</b>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,582.52	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,676.51	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,068.12	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,340.64	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,474.63	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,465.70	
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,542.47	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,678.26	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,839.74	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,978.98	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,157.78	
<b>26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0280)</b>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,745.88	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,809.50	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,849.20	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,963.38	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,301.99	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,072.67	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,202.44	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,366.43	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,479.26	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,657.96	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,833.21	
<b>26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)</b>		
Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)</b>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,018.89	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,113.48	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,287.67	
For Door-In-Door (Hinged) Trim Front, Add	70.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,537.90	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,708.04	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,852.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,862.93	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	1,976.46	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	2,136.67	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	2,238.80	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	2,393.30	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....	2,604.28	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
<b>26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,221.58	
26 24 16 00-0325 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,285.79	
26 24 16 00-0326 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,476.29	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0327 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,540.63	
26 24 16 00-0328 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,660.69	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0329 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	2,895.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0330 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	3,727.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0331 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	3,876.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0332 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	4,064.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
26 24 16 00-0333 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	4,244.09	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	70.74	
26 24 16 00-0334 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	4,441.09	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	120.82	
26 24 16 00-0335 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....	4,618.72	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	154.42	
<b>26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	1,623.03	
26 24 16 00-0338 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	1,717.62	
26 24 16 00-0339 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	1,882.87	
26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	2,127.74	
26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	2,401.55	
26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	2,534.39	
26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	2,546.31	
26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....	2,640.18	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,774.77	
26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,936.48	
26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,076.09	
26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,254.89	
<b>26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	2,811.42	
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	2,875.63	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,169.80	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,135.84	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,250.53	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,588.51	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,408.94	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,540.48	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,702.47	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,882.19	
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,062.51	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,237.16	
<b>26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
<b>26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,719.42	302.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.49	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,018.09	302.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.44	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,242.98	302.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.44	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,545.12	496.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	297.96	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,719.18	496.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	297.96	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,910.19	496.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	297.96	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,133.25	660.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	396.07	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,300.56	662.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	397.28	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,368.92	660.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	396.07	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,921.15	660.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	396.07	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,098.71	993.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	595.91	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,474.56	993.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	595.91	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,781.86	993.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	595.91	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards And Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,156.95 595.91	993.18
<b>26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,347.28 185.32	308.89
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,399.15 210.21	350.32
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,616.34 210.21	350.32
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,255.60 210.21	350.32
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,844.17 344.59	574.27
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,203.05 345.50	575.86
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,498.83 344.59	574.27
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,649.81 460.67	767.75
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,074.92 459.04	765.05
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,498.52 459.04	765.05
<b>26 24 16 00-0389 Residential Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
<b>26 24 16 00-0390 Residential Type Unassembled Load Center</b> <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
<b>26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt</b> <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	139.42	50.86
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	462.93	203.47
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	702.08	290.45
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	1,502.16	610.51
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	1,643.68	661.28
<b>26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC</b> <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	196.27	55.95
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	356.84	61.04
<b>26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof</b> <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	199.72	55.95
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	222.95	61.04
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	771.13	290.45
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	1,748.75	661.28
<b>26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC</b> <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	248.80	55.95
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	1,694.44	610.51



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0408		<b>Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt</b> <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	1,829.38	610.51
26 24 16 00-0410	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	1,985.91	661.28
26 24 16 00-0411	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	7,160.05	1,017.35
26 24 16 00-0412		<b>Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC</b> <small>(26 24 16 00-0390)</small>		
		Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	2,701.16	610.51
26 24 16 00-0414	EA	150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	2,947.00	661.28
26 24 16 00-0415	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	7,893.59	1,017.35
26 24 16 00-0416		<b>Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof</b> <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	1,926.94	610.51
26 24 16 00-0418	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,152.52	661.28
26 24 16 00-0419		<b>Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC</b> <small>(26 24 16 00-0390)</small>		
		Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	2,862.97	610.51
26 24 16 00-0421	EA	155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	2,964.56	661.28
26 24 16 00-0422		<b>Residential Type Assembled Load Center</b> <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423		<b>Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase</b> <small>(26 24 16 00-0422)</small>		
		Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424	EA	100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	702.53	290.45
26 24 16 00-0425	EA	100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	857.22	339.29
26 24 16 00-0426	EA	100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	719.04	290.45
26 24 16 00-0427	EA	100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	861.72	339.29
26 24 16 00-0428	EA	200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,255.72	452.21
26 24 16 00-0429	EA	200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,480.30	542.76
26 24 16 00-0430	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,692.08	626.18
26 24 16 00-0431	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,866.09	677.87
26 24 16 00-0432	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,792.72	1,017.35
26 24 16 00-0433	EA	200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	1,314.26	452.21
26 24 16 00-0434	EA	200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	1,535.83	542.76
26 24 16 00-0435	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	1,747.61	626.18
26 24 16 00-0436	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	1,918.63	677.87
26 24 16 00-0437	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	2,965.33	1,017.35
26 24 16 00-0438	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,454.08	1,130.38
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	3,634.20	1,130.38
26 24 16 00-0440		<b>Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small>		
		Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	941.28	339.29
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	1,403.11	508.68
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	990.81	339.29





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,448.14	508.68
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,777.63	626.18
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,941.86	678.27
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,378.79	814.18
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,852.76	1,017.35
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,830.17	626.18
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,001.18	677.87
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,580.39	813.57
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,055.40	1,017.35
26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,499.11	1,130.38
26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,679.23	1,130.38
<b>26 24 16 00-0455 Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase</b> <small>(26 24 16 00-0422)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	935.27	339.29
26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,382.10	508.68
26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,603.38	542.76
26 24 16 00-0459 EA 200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,838.28	626.48
26 24 16 00-0460 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,024.42	678.27
26 24 16 00-0461 EA 200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,679.53	904.43
26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,618.39	542.76
26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,867.69	626.18
26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,031.20	677.87
26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,596.98	904.43
26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,000.12	1,130.38
26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,300.32	1,130.38
<b>26 24 16 00-0468 Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,444.70	678.27
26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,333.08	1,017.35
26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,534.04	677.87
26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,423.14	1,017.35
<b>26 24 16 00-0473 Panel Mounted Accessories And Fuseholders</b> <small>(26 24 16 00-0001)</small>		
<b>26 24 16 00-0474 Midget Finger-Safe Fuse Holders</b> <small>(26 24 16 00-0473)</small>		
<small>Note: 30 Amp capacity. Excludes fuse.</small>		
26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder	57.54	18.31
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	12.21	
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	65.52	18.31
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	12.21	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder	91.39	27.47
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	18.31	
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder	112.22	27.47
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	18.31	
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder	131.69	36.63
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	24.42	
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder	159.36	36.63
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	24.42	
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	182.51	36.63
<small>Note: With indicators.</small>		
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	24.42	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder .....	151.82	36.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder .....	165.62	45.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder .....	196.01	45.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder .....	65.55	18.31
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder .....	69.78	18.31
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder .....	66.33	18.31
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
<b>26 24 16 00-0488 Removal And Reinstallation Of Panelboards</b> <small>(26 24 16 00-0001)</small>		
Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers .....	1,277.74	
Note: Includes removal and reinstallation of main wiring to panelboard.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	381.51	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage .....	67.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.84	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening .....	4.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.95	
<b>26 24 19 Motor-Control Centers</b> <small>(26 24)</small>		
<b>26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers</b> <small>(26 24 19)</small>		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit .....	1,566.64	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit .....	1,848.92	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit .....	2,729.14	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit .....	4,914.06	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit .....	9,843.22	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit .....	16,535.34	185.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit .....	1,566.64	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit .....	1,848.92	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit .....	2,729.14	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit .....	4,914.06	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit .....	9,843.22	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit .....	16,535.34	185.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit .....	2,248.37	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit .....	2,982.73	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit .....	4,255.81	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit .....	7,415.66	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit .....	14,544.55	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit .....	25,036.74	185.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,248.37 55.76	92.92
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,982.73 58.55	97.57
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,255.81 61.33	102.21
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,415.66 72.48	120.80
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,544.55 83.63	139.39
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,036.74 111.51	185.85
<b>26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,754.18 89.21	148.68
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,763.59 94.78	157.97
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,506.70 100.35	167.26
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,783.66 114.30	190.50
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,159.05 133.82	223.02
<b>26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,754.18 89.21	148.68
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,763.59 94.78	157.97
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,506.70 100.35	167.26
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,783.66 114.30	190.50
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,159.05 133.82	223.02
<b>26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,139.53 55.76	92.92
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,650.95 58.55	97.57
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,350.11 61.33	102.21
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,891.68 72.48	120.80
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,566.01 83.63	139.39
<b>26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,139.53 55.76	92.92
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,650.95 58.55	97.57
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,350.11 61.33	102.21
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,891.68 72.48	120.80
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,566.01 83.63	139.39
<b>26 24 19 00-0054 230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,622.06 7,054.14	97.57
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,054.14 11,858.46	106.86
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,858.46 18,318.62	120.80
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,318.62 31,310.96	139.39
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,310.96	185.85
<b>26 24 19 00-0060 480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,622.06 7,054.14	97.57
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,054.14	106.86

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0063	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....	11,858.46	120.80
26 24 19 00-0064	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....	18,318.62	139.39
26 24 19 00-0065	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....	31,310.96	185.85
<b>26 24 19 00-0066</b>			<b>230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, part winding.		
26 24 19 00-0067	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....	3,200.48	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0068	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....	4,123.65	171.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	
26 24 19 00-0069	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....	7,191.06	190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0070	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....	12,207.12	232.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0071	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....	16,758.38	297.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0072</b>			<b>480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, part winding.		
26 24 19 00-0073	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit .....	3,200.48	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0074	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit .....	4,123.65	171.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	
26 24 19 00-0075	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....	7,191.06	190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0076	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....	12,207.12	232.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0077	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit .....	16,758.38	297.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0078</b>			<b>230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	12,960.49	120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	13,760.07	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	15,198.87	171.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	22,974.84	190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	31,318.66	232.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	42,492.22	297.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0085</b>			<b>480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	12,960.49	120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	13,760.07	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	15,198.87	171.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	22,974.84	190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	31,318.66	232.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	42,492.22	297.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0092</b>			<b>Combination Starters With Current Limiting Circuit Breakers</b> <small>(26 24 19)</small>		
			Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0093</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	2,079.38	92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	2,361.66	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	3,626.08	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	6,645.82	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	11,856.63	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	19,304.14	185.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 1-speed non-reversing.</i>		
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	2,079.38	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	2,361.66	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	3,626.08	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	6,645.82	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	11,856.63	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	19,304.14	185.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 1-speed reversing.</i>		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	2,756.78	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,485.36	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,132.53	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	9,124.32	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	16,517.52	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
<b>26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 1-speed reversing.</i>		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	2,756.78	92.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.76	
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,485.36	97.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,132.53	102.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.33	
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,124.32	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	16,517.52	139.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
<b>26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 2-speed non-reversing, 2 wind.</i>		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,253.92	148.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit.....	4,256.11	157.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.78	
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit.....	6,368.97	167.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.35	
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	11,472.10	190.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	18,116.14	223.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.82	
<b>26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 2-speed non-reversing, 2 wind.</i>		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit.....	3,253.92	148.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit.....	4,256.11	157.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.78	



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0128	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	6,368.97	167.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.35	
26 24 19 00-0129	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	11,472.10	190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0130	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit.....	18,116.14	223.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.82	
<b>26 24 19 00-0131</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,732.20	139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0133	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit.....	5,237.00	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0134	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit.....	7,319.56	157.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.78	
26 24 19 00-0135	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	13,680.68	181.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.72	
26 24 19 00-0136	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	22,632.80	213.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.24	
<b>26 24 19 00-0137</b>			<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit.....	3,732.20	139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0139	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit.....	5,237.00	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0140	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	7,319.56	157.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.78	
26 24 19 00-0141	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	13,680.68	181.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.72	
26 24 19 00-0142	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit.....	22,632.80	213.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.24	
<b>26 24 19 00-0143</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit.....	5,107.36	97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0145	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit.....	8,198.05	106.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.12	
26 24 19 00-0146	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit.....	13,824.21	120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0147	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit.....	20,919.88	139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0148	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit.....	34,397.52	185.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0149</b>			<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit.....	5,107.36	97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.55	
26 24 19 00-0151	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit.....	8,198.05	106.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.12	
26 24 19 00-0152	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit.....	13,824.21	120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0153	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit.....	20,919.88	139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.63	
26 24 19 00-0154	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit.....	34,397.52	185.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.51	
<b>26 24 19 00-0155</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit.....	3,700.22	148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit.....	4,613.29	171.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,047.56 114.30	190.50
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,197.43 139.39	232.32
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,920.97 178.42	297.36
<b>26 24 19 00-0161</b>			<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,700.22 89.21	148.68
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,613.29 103.14	171.91
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,047.56 114.30	190.50
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,197.43 139.39	232.32
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,920.97 178.42	297.36
<b>26 24 19 00-0167</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,375.02 72.48	120.80
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,170.26 89.21	148.68
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,594.62 103.14	171.91
26 24 19 00-0171	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,302.70 114.30	190.50
26 24 19 00-0172	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,572.87 139.39	232.32
26 24 19 00-0173	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,235.55 178.42	297.36
<b>26 24 19 00-0174</b>			<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,375.06 72.50	120.80
26 24 19 00-0176	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,170.26 89.21	148.68
26 24 19 00-0177	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,594.62 103.14	171.91
26 24 19 00-0178	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,302.70 114.30	190.50
26 24 19 00-0179	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,572.87 139.39	232.32
26 24 19 00-0180	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,235.55 178.42	297.36
<b>26 24 19 00-0181</b>			<b>Combination Starters With Fusible Switch</b> <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
<b>26 24 19 00-0182</b>			<b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,399.10 55.76	92.92
26 24 19 00-0184	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,913.92 58.55	97.57
26 24 19 00-0185	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,194.22 61.33	102.21
26 24 19 00-0186	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,603.01 72.48	120.80
26 24 19 00-0187	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,066.16 83.63	139.39
26 24 19 00-0188	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,138.14 111.51	185.85

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0189			<b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0190	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....1,399.10		92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 55.76		
26 24 19 00-0191	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....1,913.92		97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 58.55		
26 24 19 00-0192	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....3,194.22		102.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 61.33		
26 24 19 00-0193	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....5,603.01		120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 72.48		
26 24 19 00-0194	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....9,066.16		139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 83.63		
26 24 19 00-0195	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....16,138.14		185.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.51		
26 24 19 00-0196			<b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0197	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....2,229.59		92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 55.76		
26 24 19 00-0198	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....3,300.49		97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 58.55		
26 24 19 00-0199	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....5,252.41		102.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 61.33		
26 24 19 00-0200	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....8,536.47		120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 72.48		
26 24 19 00-0201	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....13,108.87		139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 83.63		
26 24 19 00-0202	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....22,256.38		185.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.51		
26 24 19 00-0203			<b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0204	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....2,229.59		92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 55.76		
26 24 19 00-0205	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....3,300.49		97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 58.55		
26 24 19 00-0206	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....5,252.41		102.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 61.33		
26 24 19 00-0207	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....8,536.47		120.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 72.48		
26 24 19 00-0208	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....13,108.87		139.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 83.63		
26 24 19 00-0209	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing .....22,256.38		185.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.51		
26 24 19 00-0210			<b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211	EA		10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....2,632.85		148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.21		
26 24 19 00-0212	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....3,596.04		157.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 94.78		
26 24 19 00-0213	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....5,615.03		167.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.35		
26 24 19 00-0214	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....9,971.42		190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 114.30		
26 24 19 00-0215	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....15,842.74		223.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 133.82		
26 24 19 00-0216			<b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....2,632.85		148.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.21		
26 24 19 00-0218	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....3,596.04		157.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 94.78		
26 24 19 00-0219	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....5,615.03		167.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.35		
26 24 19 00-0220	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....9,971.42		190.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 114.30		
26 24 19 00-0221	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....15,842.74		223.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 133.82		
26 24 19 00-0222			<b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....2,963.32		92.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 55.76		
26 24 19 00-0224	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....4,494.96		97.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 58.55		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,451.21 61.33	102.21
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,957.60 72.48	120.80
<b>26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,963.32 55.76	92.92
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,494.96 58.55	97.57
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,451.21 61.33	102.21
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,957.60 72.48	120.80
<b>26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,464.63 58.55	97.57
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,847.08 64.12	106.86
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,042.82 72.48	120.80
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,402.90 83.63	139.39
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,210.89 111.51	185.85
<b>26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,464.63 58.55	97.57
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,847.08 64.12	106.86
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,042.82 72.48	120.80
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,402.90 83.63	139.39
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,210.89 111.51	185.85
<b>26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,219.25 89.21	148.68
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,247.87 103.14	171.91
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,717.32 114.30	190.50
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,309.16 139.39	232.32
<b>26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,219.25 89.21	148.68
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,247.87 103.14	171.91
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,717.32 114.30	190.50
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,309.16 139.39	232.32
<b>26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,959.05 72.48	120.80
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,760.07 89.21	148.68
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,198.87 103.14	171.91
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,974.84 114.30	190.50



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	31,318.66	232.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	42,492.22	297.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	12,959.05	120.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.48	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	13,760.07	148.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.21	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	15,198.87	171.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.14	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	22,974.84	190.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.30	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	31,318.66	232.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.39	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	42,492.22	297.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.42	
<b>26 24 19 00-0268 Starter Accessories</b> <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		
<b>26 24 19 00-0269 Starter Modifications</b> <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	108.10	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	225.32	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	322.09	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	80.88	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	114.10	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	192.10	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	47.66	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	40.44	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	102.76	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	127.05	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	248.50	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	127.05	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	145.74	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	175.63	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	207.40	
26 24 19 00-0285 EA Blank Devices Panel	39.24	
26 24 19 00-0286 EA Oversize Or Special Color Starter	61.66	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	541.70	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable	491.25	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	728.69	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	61.66	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	87.82	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	61.66	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	87.82	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	87.82	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	127.05	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	315.77	
26 24 19 00-0297 EA Heater Module	45.73	
26 24 19 00-0298 EA LAM - Long Acceleration Module	284.11	
26 24 19 00-0299 EA JAM - Jam Protection Module	325.68	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	618.10	
26 24 19 00-0301 EA ULM - Underload Module	296.58	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	65.14	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	121.96	
26 24 19 00-0304 EA Type SIS Control Wire	51.28	
26 24 19 00-0305 EA Ring Or Spade Terminals Control	65.14	
26 24 19 00-0306 EA Ring Terminals Power	65.14	
26 24 19 00-0307 EA 14 Gauge Control Wire	51.28	
26 24 19 00-0308 EA Wiremakers	65.14	
26 24 19 00-0309 EA Wiring Diagram On Door	38.80	
26 24 19 00-0310 EA Special Color Or Type Control Wire	47.12	
26 24 19 00-0311 EA Current Transformer 12.5 VA	370.03	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	1,182.16	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	1,330.45	
<b>26 24 19 00-0314 Control Relays And Special Components</b> <small>(26 24 19 00-0268)</small>		
26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays	472.18	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays	557.95	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays .....	653.00	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays .....	726.54	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays .....	627.52	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays .....	1,635.21	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays .....	2,058.13	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays .....	577.13	
26 24 19 00-0323 EA Phase Voltage, Control Relays .....	981.73	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays .....	1,374.12	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays .....	134.36	
26 24 19 00-0326 EA Over-Current Relay, Control Relays .....	2,644.26	
26 24 19 00-0327 EA UV-Relay, Control Relays .....	2,239.58	
26 24 19 00-0328 EA Over-Current Relay, Control Relays .....	2,239.58	
26 24 19 00-0329 EA Teleductor, Control Relays .....	1,012.27	
26 24 19 00-0330 EA Current Transducer, Control Relays .....	2,722.29	
26 24 19 00-0331 EA Watt Transducer, Control Relays .....	5,444.58	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x .....	184.74	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway .....	276.35	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway .....	311.47	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway .....	346.58	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway .....	311.47	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway .....	346.58	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway .....	364.91	
<b>26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)</b>		
26 24 19 00-0340 EA Shunt Trip, Circuit Breaker .....	311.45	
26 24 19 00-0341 EA Auxiliary Switch, Circuit Breaker .....	107.57	
26 24 19 00-0342 EA Key Interlock, Circuit Breaker .....	386.92	
26 24 19 00-0343 EA GFR Ground Fault, Circuit Breaker .....	1,783.65	
26 24 19 00-0344 EA Seltronic Breaker, Circuit Breaker .....	1,033.23	
<b>26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)</b>		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100 .....	1,159.59	60.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150 .....	2,006.17	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100 .....	1,928.17	60.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150 .....	2,773.14	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150 .....	3,556.28	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250 .....	2,210.84	120.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.50	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400 .....	3,572.42	130.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.07	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600 .....	4,711.26	167.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.32	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800 .....	5,554.76	255.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.38	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200 .....	7,871.96	385.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.57	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000 .....	17,184.16	511.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	306.39	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500 .....	25,650.83	641.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.35	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000 .....	42,724.48	743.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	446.42	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 .....	1,390.97	60.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150 .....	2,231.08	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 .....	1,390.97	60.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50 .....	2,231.08	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150 .....	2,356.96	60.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.24	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150 .....	3,229.43	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 .....	4,002.87	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100 .....	2,119.44	92.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.76	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400 .....	5,373.54	255.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.38	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 .....	5,373.54	255.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.38	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 .....	7,223.74	278.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.19	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 .....	9,015.59	325.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.06	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,376.73 231.57	385.64
<b>26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)</b>		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	1,164.28	92.92
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	1,772.68	92.92
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches	2,008.96	116.15
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches	3,254.45	139.39
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches	6,390.21	176.56
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches	8,959.46	232.32
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches	21,726.60	311.30
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches	24,533.39	432.11
<b>26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)</b>		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,103.52	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,139.12	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,176.33	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,349.47	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,462.73	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	1,487.05	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	1,990.22	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,242.64	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	5,213.41	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	2,766.89	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	3,833.20	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	5,973.90	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	5,532.17	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	7,666.39	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	7,109.57	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	9,848.07	
<b>26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)</b>		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	601.64	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	1,315.38	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	541.85	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	1,315.38	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	730.56	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	775.40	
26 24 19 00-0405 EA Add For Additional Circuits	76.22	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,712.97	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	2,841.89	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,505.57	
26 24 19 00-0409 EA Add For Demand Attachment	498.92	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	749.24	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,292.96	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,505.96	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,255.59	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,350.88	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,033.24	
<b>26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)</b>		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors	19,971.78	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors	29,084.73	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors	38,218.71	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors	58,175.92	
<b>26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)</b>		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	313.42	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	313.42	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	433.30	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	792.94	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	433.30	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	553.18	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	553.18	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	791.50	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	553.18	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	791.50	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	673.06	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	2,182.40	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	673.06	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	791.50	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	2,182.40	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	2,182.40	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	853.87	
26 24 19 00-0439 EA Throat And Transition To Substation	1,648.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0440 EA Service Entrance Label.....	356.98	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	746.19	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	331.23	
<b>26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)</b>		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width.....	235.73	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	235.73	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	729.23	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	822.50	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	70.38	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	189.94	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure.....	39.85	
26 24 19 00-0451 EA Standard Structure 150 Watt Space.....	171.28	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	403.29	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	171.28	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	260.55	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	3,716.93	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back.....	4,296.23	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	4,300.39	
<b>26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)</b>		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes.....	557.53	278.77
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes.....	836.29	418.17
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes.....	929.25	464.62
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes.....	1,115.20	557.55
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes.....	92.92	46.47
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes.....	557.53	278.77
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes.....	836.29	418.17
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes.....	929.25	464.62
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes.....	1,115.20	557.55
26 24 19 00-0468 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes.....	92.92	46.47
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes.....	650.48	325.24
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes.....	836.29	418.17
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes.....	1,115.20	557.55
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes.....	1,300.79	650.38
26 24 19 00-0473 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes.....	139.38	69.70
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes.....	743.40	371.70
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes.....	1,022.26	511.09
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes.....	1,300.79	650.38
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes.....	1,486.54	743.31
26 24 19 00-0478 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes.....	185.85	92.92
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes.....	743.40	371.70
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes.....	1,115.20	557.55
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes.....	1,393.72	696.84
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes.....	1,579.82	789.96
26 24 19 00-0483 EA Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes.....	185.85	92.92
<b>26 24 19 00-0484 Motor Control Centers (26 24 19)</b>		
<b>26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)</b>		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp.....	15,407.20	185.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.51	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp.....	15,407.20	185.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.51	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp.....	15,407.20	185.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.51	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp.....	15,453.69	209.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.46	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp.....	16,410.53	232.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.39	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp.....	16,456.98	255.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.32	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp.....	16,503.44	278.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.26	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp.....	16,596.39	325.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.14	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp.....	16,689.31	371.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.02	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp.....	28,130.09	418.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	250.89	
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp.....	30,191.00	464.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.78	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp.....	22,870.70	185.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.51	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp.....	23,825.55	199.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.88	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp.....	27,068.44	218.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.03	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,131.00 139.39	232.32
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,780.27 161.70	269.48
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,916.48 172.85	288.06
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,050.81 183.98	306.65
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,768.49 200.72	334.53
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,771.09 223.02	371.70
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53,924.56 236.98	394.93
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82,369.26 278.78	464.62
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87,759.18 306.68	511.09
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92,450.13 334.56	557.55
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100,668.77 362.47	604.11
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,577.74 111.51	185.85
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,624.23 125.46	209.08
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,670.66 139.39	232.32
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,717.11 153.32	255.55
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,767.24 167.26	278.77
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,813.75 181.21	302.00
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,860.19 195.14	325.24
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,046.00 250.89	418.17
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,593.81 278.78	464.62
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,686.82 306.68	511.09
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,736.67 334.56	557.55
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,480.67 55.76	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,738.15 55.76	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,382.15 55.76	
<b>26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)</b>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,760.93 167.26	278.77
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,807.44 181.21	302.00
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,853.88 195.14	325.24
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,900.37 209.09	348.47
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,848.01 223.02	371.70
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,894.53 236.98	394.93
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,940.90 250.89	418.17
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,987.44 264.85	441.39
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,033.86 278.78	464.62
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,571.14 362.47	604.11
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,663.70 390.24	650.38
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,715.38 418.12	696.84
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,808.20 445.96	743.31
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,317.69 167.26	278.77
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,621.69 181.21	302.00





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,548.86 195.14	325.24
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,620.84 209.09	348.47
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,242.16 223.02	371.70
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,387.74 236.98	394.93
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,340.05 250.89	418.17
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,239.73 264.85	441.39
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50,091.21 278.78	464.62
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54,746.73 292.72	487.85
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59,448.73 320.60	534.32
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63,337.35 334.56	557.55
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,005.11 348.47	580.78
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72,137.18 362.47	604.11
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114,367.76 445.96	743.31
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127,188.34 473.95	789.96
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152,892.02 501.77	836.32
26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161,729.40 501.77	836.32
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,020.73 195.14	325.24
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,067.22 209.09	348.47
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,113.65 223.02	371.70
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,160.17 236.98	394.93
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,145.07 250.89	418.17
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,191.61 264.85	441.39
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,238.03 278.78	464.62
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,284.51 292.72	487.85
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,331.04 306.68	511.09
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,609.57 390.24	650.38
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,414.83 418.12	696.84
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,457.20 445.96	743.31
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,457.20 445.96	743.31
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,699.83 55.76	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,902.04 55.76	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,549.01 55.76	
<b>26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)</b>		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amp	8,748.89	185.85
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amp	10,539.38	278.77
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant	3,410.09	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters	189.42	13.94
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused	987.93	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	530.07	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max	1,578.67	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each	101.10	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each	335.09	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light	101.10	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light	306.20	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	814.61	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type	814.61	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter	2,436.61	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	1,679.77	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter	334.08	13.94



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 24 19 00-0590	EA	2.4/4.8 KV Phase Failure Protection .....		2,377.87	46.47
26 24 19 00-0591	EA	2.4/4.8 KV Ground Protection .....		4,512.38	23.23
26 24 19 00-0592	EA	2.4/4.8 KV Synchronous Motor DC Protection .....		2,555.15	23.23
26 24 19 00-0593	EA	2.4/4.8 KV Lightning Arresters .....		3,067.12	13.94
26 24 19 00-0594	EA	2.4/4.8 KV Portable Lifting Mechanism .....		4,430.22	
26 24 19 00-0595	EA	2.4/4.8 KV Auxiliary Timing Relay .....		479.53	46.47
26 24 19 00-0596	EA	2.4/4.8 KV Auxiliary Control Relay .....		348.58	46.47
<b>26 24 19 00-0597</b>		<b>Incoming Section And Feeder Air Circuit Breakers</b> (26 24 19 00-0484)			
		Note: 3 Pole. Includes structure.			
26 24 19 00-0598	EA	Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amp, 14,000 Amp IC, 3-Pole, With Structure Included .....		1,118.90	278.76
26 24 19 00-0599	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amp, 22,000 Amp IC, 3-Pole, With Structure Included .....		1,939.25	493.42
26 24 19 00-0600	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....		2,305.72	631.77
26 24 19 00-0601	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....		3,709.66	1,017.35
26 24 19 00-0602	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....		4,376.29	1,119.09
26 24 19 00-0603	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....		5,703.94	1,241.17
26 24 19 00-0604	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 45,000 Amp IC, 3-Pole, With Structure Included .....		6,635.41	1,454.81
26 24 19 00-0605	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 100,000 Amp IC, 3-Pole, With Structure Included .....		11,708.99	1,694.91
<b>26 24 19 00-0606</b>		<b>Main Lugs Only</b> (26 24 19 00-0484)			
26 24 19 00-0607	EA	600 Amp Incoming Section, Main Lugs .....		857.61	356.07
26 24 19 00-0608	EA	800 Amp Incoming Section, Main Lugs .....		929.63	356.07
26 24 19 00-0609	EA	1,200 Amp Incoming Section, Main Lugs .....		1,294.89	559.54
26 24 19 00-0610	EA	2,000 Amp Incoming Section, Main Lugs .....		3,277.40	1,017.35
26 24 19 00-0611	EA	3,000 Amp Incoming Section, Main Lugs .....		4,998.93	1,475.16
26 24 19 00-0612	EA	4,000 Amp Incoming Section, Main Lugs .....		7,163.77	2,034.71
<b>26 24 19 00-0613</b>		<b>Incoming Main Circuit Breaker Structure</b> (26 24 19 00-0484)			
		Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.			
26 24 19 00-0614	EA	225 Amp, Main Circuit Breaker Section .....		6,241.92	492.30
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
26 24 19 00-0615	EA	400 Amp, Main Circuit Breaker Section .....		13,354.64	632.38
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
26 24 19 00-0616	EA	600 Amp, Main Circuit Breaker Section .....		13,782.96	985.01
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
26 24 19 00-0617	EA	800 Amp, Main Circuit Breaker Section .....		19,688.53	985.01
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
26 24 19 00-0618	EA	1,200 Amp, Main Circuit Breaker Section .....		28,575.69	1,114.51
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
<b>26 24 19 00-0619</b>		<b>Incoming Fusible Main Disconnect Section</b> (26 24 19 00-0484)			
		Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.			
26 24 19 00-0620	EA	200 Amp, Fusible Main Disconnect Section .....		5,403.35	492.91
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	
26 24 19 00-0621	EA	400 Amp, Fusible Main Disconnect Section .....		7,472.69	632.69
		For 800 Amperes, Tin Plated Copper Bus, Add		182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add		334.00	
		For NEMA 1 With Gaskets, Add		97.00	
		For NEMA 12, Add		245.00	
		For 20" Cabinet Depth, Add		108.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0622 EA 600 Amp, Fusible Main Disconnect Section..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	14,662.13 182.00 334.00 97.00 245.00 108.00	985.82
26 24 19 00-0623 EA 800 Amp, Fusible Main Disconnect Section..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	17,084.70 182.00 334.00 97.00 245.00 108.00	985.82
26 24 19 00-0624 EA 1,200 Amp, Fusible Main Disconnect Section..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	24,130.80 182.00 334.00 97.00 245.00 108.00	1,115.52
<b>26 24 19 00-0625 Circuit Breaker Combination Starters</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0626 Class I, Type A</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	941.53 117.75	206.53
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,097.52 130.43	206.53
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,598.08 175.41	292.99
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,621.18 231.22	385.57
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,739.29 289.02	482.23
<b>26 24 19 00-0632 Class I, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	894.46 101.74	180.07
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,044.65 114.57	180.07
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,535.11 156.52	260.44
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,556.95 211.95	353.02
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,687.49 273.48	450.69
<b>26 24 19 00-0638 Class I, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	947.56 92.15	166.84
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,106.62 108.23	166.84
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,647.88 149.61	249.25
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,675.51 206.78	344.88
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,798.85 264.94	442.55
<b>26 24 19 00-0644 Class II, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	936.86 139.75	247.22
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,304.48 156.04	247.22
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,855.03 197.16	329.62
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,046.85 254.34	422.20
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,535.36 310.17	515.80
<b>26 24 19 00-0650 Class II, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,179.89 133.86	233.99
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,356.73 146.17	233.99
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,973.08 191.23	319.45
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,157.94 246.93	412.03

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,660.73 306.43	508.68
<b>26 24 19 00-0656 Fused Disconnect Combination Starter (26 24 19 00-0484)</b>		
<b>26 24 19 00-0657 Class I, Type A (26 24 19 00-0656)</b>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	857.71 114.57	190.25
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,296.37 156.04	260.44
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,068.61 203.47	338.78
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,828.44 285.77	475.11
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,980.28 363.34	605.32
<b>26 24 19 00-0663 Class I, Type B (26 24 19 00-0656)</b>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	876.22 101.74	169.90
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,179.56 139.75	232.97
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,748.90 187.01	311.31
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,933.31 270.57	449.67
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,071.23 343.70	571.75
<b>26 24 19 00-0669 Class I, Type C (26 24 19 00-0656)</b>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	929.62 95.26	158.71
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,249.15 130.43	215.68
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,904.93 181.67	300.12
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,088.40 264.94	442.55
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,794.80 339.12	565.65
<b>26 24 19 00-0675 Class II, Type B (26 24 19 00-0656)</b>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,102.56 142.89	238.06
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,425.56 177.86	297.07
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,072.31 229.13	382.53
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,385.57 310.17	515.80
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,832.34 385.36	643.98
<b>26 24 19 00-0681 Class II, Type C (26 24 19 00-0656)</b>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,147.46 133.86	223.82
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,494.80 168.44	280.79
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,204.09 219.26	365.23
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,525.67 302.78	503.59
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,968.42 374.03	623.64
<b>26 24 19 00-0687 Space Complete With Bus And Hardware (26 24 19 00-0484)</b>		
<b>26 24 19 00-0688 Circuit Breaker Type (26 24 19 00-0687)</b>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware .....	263.51	69.18
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware .....	263.51	69.18
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware .....	391.90	100.71
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware .....	462.95	132.25
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware .....	780.81	201.44
<b>26 24 19 00-0694 Fused Disconnect Type (26 24 19 00-0687)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	263.51	69.18
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	347.80	100.71
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	484.53	132.25
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	841.03	201.44
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,170.32	292.99
<b>26 24 19 00-0700 Blank Space For Future Expansion (26 24 19 00-0687)</b>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs .....	125.66	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs .....	125.66	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs .....	190.52	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs .....	190.52	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs .....	379.01	
<b>26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)</b>		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High .....	3,113.67	535.44
<b>26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)</b>		
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway .....	5,132.25	1,394.38
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway).....	5,132.25	1,394.38
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway.....	5,684.45	1,394.38
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 EA Corner Section .....	5,684.45	1,394.38
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
<b>26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)</b>		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
<b>26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)</b>		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,352.49	195.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.50	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,505.48	217.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.32	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker .....	2,620.64	291.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.20	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker .....	3,805.96	384.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.01	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker .....	8,725.98	481.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.69	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker .....	20,489.81	481.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.69	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,369.04	169.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.63	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,544.07	190.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.45	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker .....	2,684.17	260.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.26	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker .....	3,812.42	353.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.83	



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0725	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,745.66 273.48	455.77
26 24 19 00-0726	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,636.07 273.48	455.77
<b>26 24 19 00-0727</b>			<b>Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,174.81 147.02	245.08
26 24 19 00-0729	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,671.82 162.69	271.12
26 24 19 00-0730	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,413.55 218.63	364.41
26 24 19 00-0731	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,610.95 289.02	481.72
26 24 19 00-0732	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,778.44 361.62	602.68
26 24 19 00-0733	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,213.51 126.96	211.61
26 24 19 00-0734	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,733.37 143.15	238.57
26 24 19 00-0735	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,498.80 195.65	326.06
26 24 19 00-0736	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,636.22 264.94	441.53
26 24 19 00-0737	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,819.13 342.16	570.23
<b>26 24 19 00-0738</b>			<b>Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,385.93 147.02	245.08
26 24 19 00-0740	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,405.12 162.69	271.12
26 24 19 00-0741	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,444.55 218.63	364.41
26 24 19 00-0742	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,777.75 289.02	481.72
26 24 19 00-0743	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,641.98 361.62	602.68
26 24 19 00-0744	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,424.63 126.96	211.61
26 24 19 00-0745	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,466.67 143.15	238.57
26 24 19 00-0746	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,529.80 195.65	326.06
26 24 19 00-0747	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,803.02 264.94	441.53
26 24 19 00-0748	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,682.67 342.16	570.23
<b>26 24 19 00-0749</b>			<b>Motor Control Center Starters With Fusible Disconnect</b> <small>(26 24 19 00-0484)</small> Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
<b>26 24 19 00-0750</b>			<b>FVNR Starters With Fusible Disconnect</b> <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751	EA		Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect .....	1,087.04	190.96
26 24 19 00-0752	EA		Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect .....	1,415.63	259.52
26 24 19 00-0753	EA		Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect .....	2,372.45	338.17
26 24 19 00-0754	EA		Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect .....	4,012.45	476.33
26 24 19 00-0755	EA		Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect .....	8,106.40	605.52
26 24 19 00-0756	EA		Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect .....	20,666.77	605.52
26 24 19 00-0757	EA		Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect .....	1,112.32	169.29
26 24 19 00-0758	EA		Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect .....	1,453.02	232.46
26 24 19 00-0759	EA		Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect .....	2,446.07	311.72
26 24 19 00-0760	EA		Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect .....	4,032.14	450.99
26 24 19 00-0761	EA		Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect .....	8,111.30	572.87
26 24 19 00-0762	EA		Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect .....	20,798.34	572.87
<b>26 24 19 00-0763</b>			<b>Two Speed 2-Winding (TS2W) With Fusible Disconnect</b> <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	1,884.15	239.08
26 24 19 00-0765	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	2,626.33	324.43
26 24 19 00-0766	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	4,076.56	422.51
26 24 19 00-0767	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	8,581.95	597.09
26 24 19 00-0768	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	13,997.25	698.71
26 24 19 00-0769	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	1,933.89	211.61
26 24 19 00-0770	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	2,684.87	290.35
26 24 19 00-0771	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	4,173.62	390.05
26 24 19 00-0772	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	8,618.83	562.70
26 24 19 00-0773	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....	14,023.15	658.94





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0774</b> Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,202.25	239.08
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,370.89	324.43
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,128.67	422.51
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,009.83	597.09
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	17,075.41	698.71
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,252.92	211.61
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,429.42	290.35
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,225.73	390.05
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,046.70	562.70
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	17,101.32	658.94
<b>26 24 19 00-0785</b> Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small>		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amp Horizontal Tin Plated Copper Bus Kit.....	239.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.64	
26 24 19 00-0787 EA 800 Amp Horizontal Tin Plated Copper Bus Kit.....	293.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.64	
26 24 19 00-0788 EA 1,200 Amp Horizontal Tin Plated Copper Bus Kit.....	353.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 24 19 00-0789 EA 1,600 Amp Horizontal Tin Plated Copper Bus Kit.....	460.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 24 19 00-0790 EA 2,000 Amp Horizontal Tin Plated Copper Bus Kit.....	773.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.70	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	136.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
<b>26 24 19 00-0792</b> Disconnect Switch For Motor Control Centers <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0793</b> 3 Pole Circuit Breaker Disconnect For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amp Rating, 15 To 100 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	740.14	147.01
26 24 19 00-0795 EA 150 Amp Rating, 125 To 150 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,266.31	162.78
26 24 19 00-0796 EA 225 Amp Rating, 70 To 225 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,551.21	219.24
26 24 19 00-0797 EA 400 Amp Rating, 125 To 400 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,551.01	288.93
26 24 19 00-0798 EA 600 Amp Rating, 300 To 600 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,365.15	361.16
26 24 19 00-0799 EA 800 Amp Rating, 400 To 800 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,963.98	361.16
26 24 19 00-0800 EA 1,200 Amp Rating, 600 To 1,200 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	10,137.28	452.21
<b>26 24 19 00-0801</b> Fusible Disconnect Switch For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	750.34	142.94
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	882.29	194.83
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,210.70	249.25
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,266.68	357.09
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,042.82	454.15
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	9,334.96	454.15
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	11,539.55	567.69
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	17,079.40	567.69
<b>26 24 19 00-0810</b> Control Circuit Transformer <small>(26 24 19 00-0484)</small>		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	67.04	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	67.04	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	129.11	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	129.11	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	179.37	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	48.46	11.52
<b>26 24 19 00-0817</b> Cover Mounted Control Devices <small>(26 24 19 00-0484)</small>		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	109.43	20.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.72	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	122.51	20.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.90	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted.....	103.75	20.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.53	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	278.02	69.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.69	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter.....	341.31	26.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.82	
<b>26 24 19 00-0823</b> Extra Interlocks <small>(26 24 19 00-0484)</small>		
Note: Per contact.		

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact .....70.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.53		13.22
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact .....99.02 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.53		13.22
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact .....110.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.95		13.22
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact .....99.67 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.36		13.22
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact .....105.68 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.80		13.22
<b>26 24 19 00-0829 Special Cabinet Provisions</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions .....839.23		
<b>26 24 19 00-0831 Nameplate Requirements</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements .....29.80		
<b>26 24 19 00-0833 Auxiliary Relays</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts .....161.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.28		25.47
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay .....152.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.28		22.92
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base .....85.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.28		22.92
<b>26 24 19 00-0837 Motor Control Center Accessories</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0838 Lighting Transformer With Circuit Breaker</b> <small>(26 24 19 00-0837)</small> Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....4,823.83		324.70
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....5,015.33		337.70
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....5,488.01		363.67
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....6,906.15		389.65
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....9,297.34		415.62
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....11,425.52		467.58
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker .....15,022.76		519.53
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....8,761.20		428.61
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....9,518.39		467.58
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....10,887.99		519.53
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....11,548.84		571.48
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....13,940.83		623.43
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker .....14,380.96		675.38
<b>26 24 19 00-0852 Bolt-On Lighting Panel</b> <small>(26 24 19 00-0837)</small> Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt .....1,969.27		529.44
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt .....3,053.46		921.52
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt .....4,053.97		1,246.76
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt .....2,056.08		572.87
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt .....3,014.25		901.88
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt .....4,209.81		1,324.70
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt .....3,373.07		614.08
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt .....4,461.43		985.82
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt .....5,558.18		1,324.70
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt .....3,469.65		662.30
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt .....4,461.43		985.82
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt .....5,643.65		1,367.42
<b>26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker</b> <small>(26 24 19 00-0837)</small> Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker .....17.89		
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker .....258.64		
26 24 19 00-0868 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker .....34.97		
26 24 19 00-0869 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker .....80.52		
26 24 19 00-0870 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker .....94.34		
26 24 19 00-0871 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker .....143.14		
<b>26 24 19 00-0872 Blank Unit Door (BUD)</b> <small>(26 24 19 00-0837)</small> Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure .....68.97		
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure .....82.76		
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure .....124.15		
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure .....165.53		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 24 19 00-0877	EA	30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	248.29	
26 24 19 00-0878	EA	48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	289.67	
26 24 19 00-0879	EA	72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	331.06	

**26 25 Enclosed Bus Assemblies** (26 20)

**26 25 13 Low-Voltage Busways** (26 25)

**26 25 13 00-0001 Plug-In Bus Duct** (26 25 13)

Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

**26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors** (26 25 13 00-0001)

26 25 13 00-0003	LF	225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	276.45	30.52
		<i>For Up To 25, Add</i>	69.11	
		<i>For &gt;25 To 50, Add</i>	41.47	
		<i>For &gt;50 To 100, Add</i>	20.73	
26 25 13 00-0004	LF	400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	393.38	30.52
		<i>For Up To 25, Add</i>	98.35	
		<i>For &gt;25 To 50, Add</i>	59.01	
		<i>For &gt;50 To 100, Add</i>	29.50	
26 25 13 00-0005	LF	600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	499.21	40.69
		<i>For Up To 25, Add</i>	124.80	
		<i>For &gt;25 To 50, Add</i>	74.88	
		<i>For &gt;50 To 100, Add</i>	37.44	
26 25 13 00-0006	LF	800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	691.57	40.69
		<i>For Up To 25, Add</i>	172.89	
		<i>For &gt;25 To 50, Add</i>	103.74	
		<i>For &gt;50 To 100, Add</i>	51.87	
26 25 13 00-0007	LF	1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	729.42	50.86
		<i>For Up To 25, Add</i>	182.36	
		<i>For &gt;25 To 50, Add</i>	109.41	
		<i>For &gt;50 To 100, Add</i>	54.71	
26 25 13 00-0008	LF	1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,018.88	50.86
		<i>For Up To 25, Add</i>	254.72	
		<i>For &gt;25 To 50, Add</i>	152.83	
		<i>For &gt;50 To 100, Add</i>	76.42	
26 25 13 00-0009	LF	1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,193.72	53.41
		<i>For Up To 25, Add</i>	298.43	
		<i>For &gt;25 To 50, Add</i>	179.06	
		<i>For &gt;50 To 100, Add</i>	89.53	
26 25 13 00-0010	LF	2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,455.39	54.94
		<i>For Up To 25, Add</i>	363.85	
		<i>For &gt;25 To 50, Add</i>	218.31	
		<i>For &gt;50 To 100, Add</i>	109.15	
26 25 13 00-0011	LF	2,500 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,798.05	57.99
		<i>For Up To 25, Add</i>	449.51	
		<i>For &gt;25 To 50, Add</i>	269.71	
		<i>For &gt;50 To 100, Add</i>	134.85	
26 25 13 00-0012	LF	3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,076.00	67.65
		<i>For Up To 25, Add</i>	519.00	
		<i>For &gt;25 To 50, Add</i>	311.40	
		<i>For &gt;50 To 100, Add</i>	155.70	
26 25 13 00-0013	LF	4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,403.34	73.75
		<i>For Up To 25, Add</i>	600.84	
		<i>For &gt;25 To 50, Add</i>	360.50	
		<i>For &gt;50 To 100, Add</i>	180.25	

**26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors** (26 25 13 00-0001)

26 25 13 00-0015	LF	225 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	456.94	30.52
		<i>For Up To 25, Add</i>	114.24	
		<i>For &gt;25 To 50, Add</i>	68.54	
		<i>For &gt;50 To 100, Add</i>	34.27	
26 25 13 00-0016	LF	400 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	661.46	30.52
		<i>For Up To 25, Add</i>	165.37	
		<i>For &gt;25 To 50, Add</i>	99.22	
		<i>For &gt;50 To 100, Add</i>	49.61	
26 25 13 00-0017	LF	600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	747.91	40.69
		<i>For Up To 25, Add</i>	186.98	
		<i>For &gt;25 To 50, Add</i>	112.19	
		<i>For &gt;50 To 100, Add</i>	56.09	
26 25 13 00-0018	LF	800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	952.16	40.69
		<i>For Up To 25, Add</i>	238.04	
		<i>For &gt;25 To 50, Add</i>	142.82	
		<i>For &gt;50 To 100, Add</i>	71.41	
26 25 13 00-0019	LF	1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,162.60	50.86
		<i>For Up To 25, Add</i>	290.65	
		<i>For &gt;25 To 50, Add</i>	174.39	
		<i>For &gt;50 To 100, Add</i>	87.20	
26 25 13 00-0020	LF	1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,508.51	50.86
		<i>For Up To 25, Add</i>	377.13	
		<i>For &gt;25 To 50, Add</i>	226.28	
		<i>For &gt;50 To 100, Add</i>	113.14	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 25 Enclosed Bus Assemblies**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0021	LF		1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,951.82	52.70
			<i>For Up To 25, Add</i>	487.96	
			<i>For &gt;25 To 50, Add</i>	292.77	
			<i>For &gt;50 To 100, Add</i>	146.39	
26 25 13 00-0022	LF		2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,352.36	54.94
			<i>For Up To 25, Add</i>	588.09	
			<i>For &gt;25 To 50, Add</i>	352.85	
			<i>For &gt;50 To 100, Add</i>	176.43	
26 25 13 00-0023	LF		2,500 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,919.36	57.48
			<i>For Up To 25, Add</i>	729.84	
			<i>For &gt;25 To 50, Add</i>	437.90	
			<i>For &gt;50 To 100, Add</i>	218.95	
26 25 13 00-0024	LF		3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,369.86	67.65
			<i>For Up To 25, Add</i>	842.47	
			<i>For &gt;25 To 50, Add</i>	505.48	
			<i>For &gt;50 To 100, Add</i>	252.74	
26 25 13 00-0025	LF		4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,907.21	73.75
			<i>For Up To 25, Add</i>	976.80	
			<i>For &gt;25 To 50, Add</i>	586.08	
			<i>For &gt;50 To 100, Add</i>	293.04	
<b>26 25 13 00-0026</b>			<b>Cable Tap Boxes <small>(26 25 13 00-0001)</small></b>		
<b>26 25 13 00-0027</b>			<b>600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small></b>		
26 25 13 00-0028	EA		225 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	2,299.54	142.43
26 25 13 00-0029	EA		400 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	2,369.79	142.43
26 25 13 00-0030	EA		600 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	2,557.72	193.29
26 25 13 00-0031	EA		800 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	2,717.24	193.29
26 25 13 00-0032	EA		1,000 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	2,910.77	254.33
26 25 13 00-0033	EA		1,350 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	3,187.81	254.33
<b>26 25 13 00-0034</b>			<b>277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small></b>		
26 25 13 00-0035	EA		225 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	2,369.79	279.77
26 25 13 00-0036	EA		400 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	2,569.39	279.77
26 25 13 00-0037	EA		600 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	2,739.55	381.51
26 25 13 00-0038	EA		800 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	3,077.40	381.51
26 25 13 00-0039	EA		1,000 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	3,230.76	508.68
26 25 13 00-0040	EA		1,350 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	3,677.60	508.68
<b>26 25 13 00-0041</b>			<b>Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small></b>		
<b>26 25 13 00-0042</b>			<b>240 Volt, 3-Phase <small>(26 25 13 00-0041)</small></b>		
26 25 13 00-0043	EA		60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker .....	1,026.41	101.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.65	
26 25 13 00-0044	EA		100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker .....	2,061.06	101.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.44	
<b>26 25 13 00-0045</b>			<b>600 Volt, 3-Phase <small>(26 25 13 00-0041)</small></b>		
26 25 13 00-0046	EA		60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker .....	2,008.43	101.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.65	
26 25 13 00-0047	EA		100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker .....	2,601.70	101.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.44	
<b>26 25 13 00-0048</b>			<b>120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small></b>		
26 25 13 00-0049	EA		60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker .....	1,182.21	122.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.59	
26 25 13 00-0050	EA		100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker .....	1,410.61	122.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.48	
<b>26 25 13 00-0051</b>			<b>277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small></b>		
26 25 13 00-0052	EA		60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	1,357.63	122.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.59	
26 25 13 00-0053	EA		100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	2,097.49	122.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.48	
26 25 13 00-0054	EA		225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	3,031.70	422.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.98	
26 25 13 00-0055	EA		400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	7,254.93	422.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	397.40	
26 25 13 00-0056	EA		600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	8,052.72	1,220.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	552.91	
26 25 13 00-0057	EA		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	9,936.16	1,220.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	978.22	
<b>26 25 13 00-0058</b>			<b>Bus Duct Plug-In Fusible Switch <small>(26 25 13 00-0001)</small></b>		
<b>26 25 13 00-0059</b>			<b>240 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small></b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,023.99	101.74
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,121.51	101.74
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,554.29	122.08
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,619.36	244.17
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	6,645.11	549.37
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	9,885.20	956.31
<b>26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse</b> <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,068.55	111.90
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,163.40	111.90
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,570.20	111.90
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,689.20	233.99
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	6,617.94	529.02
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,077.88	1,017.35
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	16,642.24	1,322.56
<b>26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse</b> <small>(26 25 13 00-0059)</small>		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,186.45	132.25
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,269.36	132.25
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,716.85	132.25
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,911.86	274.68
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	7,283.26	610.41
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,588.66	935.97
<b>26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse</b> <small>(26 25 13 00-0059)</small>		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,226.79	132.25
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,309.70	112.21
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,834.56	152.60
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	3,037.43	274.68
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	7,283.26	610.41
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,588.66	935.97
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	16,848.60	1,241.17
<b>26 25 16 Low-Voltage Cablebus Systems</b> <small>(26 25)</small>		
<b>26 25 16 00-0001 Feeder Bus Duct</b> <small>(26 25 16)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
<b>26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance</b> <small>(26 25 16 00-0001)</small>		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	834.57	42.73
For Up To 25, Add	208.64	
For >25 To 50, Add	125.19	
For >50 To 100, Add	62.59	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	845.17	42.73
For Up To 25, Add	211.29	
For >25 To 50, Add	126.78	
For >50 To 100, Add	63.39	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,108.66	42.73
For Up To 25, Add	277.17	
For >25 To 50, Add	166.30	
For >50 To 100, Add	83.15	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,333.13	42.73
For Up To 25, Add	333.28	
For >25 To 50, Add	199.97	
For >50 To 100, Add	99.98	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,630.51	42.73
For Up To 25, Add	407.63	
For >25 To 50, Add	244.58	
For >50 To 100, Add	122.29	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	2,224.39	101.74
For Up To 25, Add	556.10	
For >25 To 50, Add	333.66	
For >50 To 100, Add	166.83	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	3,077.97	101.74
For Up To 25, Add	769.49	
For >25 To 50, Add	461.70	
For >50 To 100, Add	230.85	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	3,641.48	101.74
For Up To 25, Add	910.37	
For >25 To 50, Add	546.22	
For >50 To 100, Add	273.11	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	4,487.90	101.74
For Up To 25, Add	1,121.98	
For >25 To 50, Add	673.19	
For >50 To 100, Add	336.59	



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0012			<b>277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated</b> <small>(26 25 16 00-0001)</small> Note: Low impedance, copper conductors.		
26 25 16 00-0013	LF		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	958.44	45.78
			For Up To 25, Add .....	239.61	
			For >25 To 50, Add .....	143.77	
			For >50 To 100, Add .....	71.88	
26 25 16 00-0014	LF		1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	972.16	45.78
			For Up To 25, Add .....	243.04	
			For >25 To 50, Add .....	145.82	
			For >50 To 100, Add .....	72.91	
26 25 16 00-0015	LF		1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,253.26	45.78
			For Up To 25, Add .....	313.32	
			For >25 To 50, Add .....	187.99	
			For >50 To 100, Add .....	93.99	
26 25 16 00-0016	LF		1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,485.85	45.78
			For Up To 25, Add .....	371.46	
			For >25 To 50, Add .....	222.88	
			For >50 To 100, Add .....	111.44	
26 25 16 00-0017	LF		2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,795.77	45.78
			For Up To 25, Add .....	448.94	
			For >25 To 50, Add .....	269.37	
			For >50 To 100, Add .....	134.68	
26 25 16 00-0018	LF		3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	2,762.40	78.33
			For Up To 25, Add .....	690.60	
			For >25 To 50, Add .....	414.36	
			For >50 To 100, Add .....	207.18	
26 25 16 00-0019	LF		4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	3,465.11	78.33
			For Up To 25, Add .....	866.28	
			For >25 To 50, Add .....	519.77	
			For >50 To 100, Add .....	259.88	
26 25 16 00-0020	LF		5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	4,099.46	145.49
			For Up To 25, Add .....	1,024.87	
			For >25 To 50, Add .....	614.92	
			For >50 To 100, Add .....	307.46	
26 25 16 00-0021	LF		6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	5,059.29	145.49
			For Up To 25, Add .....	1,264.82	
			For >25 To 50, Add .....	758.89	
			For >50 To 100, Add .....	379.45	
<b>26 27 Low-Voltage Distribution Equipment</b> <small>(26 20)</small>					
<b>26 27 13 Electricity Metering</b> <small>(26 27)</small>					
26 27 13 00-0001			<b>Revenue Metering</b> <small>(26 27 13)</small>		
26 27 13 00-0002			<b>Meter Socket Base</b> <small>(26 27 13 00-0001)</small> Note: NEMA 3R.		
26 27 13 00-0003	EA		100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass.....	229.70	66.13
26 27 13 00-0004	EA		100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass.....	243.42	66.13
26 27 13 00-0005	EA		200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass.....	313.62	81.39
26 27 13 00-0006	EA		200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass.....	317.52	81.39
26 27 13 00-0007	EA		200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	611.37	91.56
26 27 13 00-0008	EA		320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	812.27	101.74
26 27 13 00-0009	EA		400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	2,001.80	111.90
26 27 13 00-0010	EA		Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base .....	2,312.84	508.68
26 27 13 00-0011			<b>Meter Device</b> <small>(26 27 13 00-0001)</small> Note: Direct read, with 15 minute demand.		
26 27 13 00-0012	EA		100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	226.31	20.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	12.52	
26 27 13 00-0013	EA		200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	636.03	20.37
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	12.73	
26 27 13 00-0014			<b>Current Transformer Enclosure</b> <small>(26 27 13 00-0001)</small>		
26 27 13 00-0015	EA		18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure .....	475.64	132.25
26 27 13 00-0016			<b>120/240 Volt Meter Center And Main Breaker, Indoor Housing</b> <small>(26 27 13 00-0001)</small>		
26 27 13 00-0017			<b>800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole</b> <small>(26 27 13 00-0016)</small>		
26 27 13 00-0018	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	881.49	63.59
26 27 13 00-0019	EA		4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,159.84	76.30
26 27 13 00-0020	EA		5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,436.71	89.02
26 27 13 00-0021	EA		6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,664.78	101.74
26 27 13 00-0022	EA		7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,166.48	114.45
26 27 13 00-0023	EA		8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,339.81	127.17
26 27 13 00-0024	EA		10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,730.88	152.60



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Distribution Equipment</b>	<b>26 27</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 13 00-0025</b>	<b>1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole <small>(26 27 13 00-0016)</small></b>	
26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	1,621.02	63.59
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	2,134.55	76.30
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	2,939.75	101.74
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	3,260.99	114.45
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	4,099.89	127.17
<b>26 27 13 00-0031</b>	<b>800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small></b>	
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,349.45	89.02
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,771.28	101.74
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,166.48	114.45
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,546.88	127.17
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,208.31	139.89
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,366.88	152.60
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,172.05	178.03
<b>26 27 13 00-0039</b>	<b>1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small></b>	
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,086.02	89.02
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,732.67	101.74
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,848.45	127.17
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,125.33	139.89
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,274.84	152.60
<b>26 27 13 00-0045</b>	<b>120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small></b>	
<b>26 27 13 00-0046</b>	<b>800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	960.17	76.30
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,254.79	89.02
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,547.94	101.74
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,796.72	114.45
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	2,206.69	127.17
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	2,380.04	139.89
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	2,933.80	165.32
<b>26 27 13 00-0054</b>	<b>1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,705.62	76.30
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,248.73	89.02
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,246.20	114.45
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,567.43	127.17
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,317.64	139.89
<b>26 27 13 00-0060</b>	<b>800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,428.15	101.74
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,855.90	114.45
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,295.47	127.17
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,675.88	139.89
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,366.92	152.60
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,525.42	165.32
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,389.81	190.76
<b>26 27 13 00-0068</b>	<b>1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,185.43	101.74
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,876.45	114.45
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,125.36	139.89
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,313.48	152.60
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,477.79	165.32
<b>26 27 13 00-0074</b>	<b>120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small></b>	
<b>26 27 13 00-0075</b>	<b>800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b>	
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	881.49	63.59
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,159.84	76.30
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,664.78	101.74
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,166.48	114.45
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,679.99	127.17



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 27 13 00-0081		<b>1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,621.02	63.59
26 27 13 00-0083	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,134.54	76.30
26 27 13 00-0084	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,087.64	101.74
26 27 13 00-0085	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,408.89	114.45
26 27 13 00-0086	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,099.89	127.17
26 27 13 00-0087		<b>800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0088	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,349.45	89.02
26 27 13 00-0089	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,771.28	101.74
26 27 13 00-0090	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,546.88	127.17
26 27 13 00-0091	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,208.31	139.89
26 27 13 00-0092	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,366.88	152.60
26 27 13 00-0093		<b>1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0094	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,086.03	89.02
26 27 13 00-0095	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,732.67	101.74
26 27 13 00-0096	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,848.45	127.17
26 27 13 00-0097	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,125.33	139.89
26 27 13 00-0098	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,274.87	152.60
26 27 13 00-0099		<b>120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing</b> <small>(26 27 13 00-0001)</small>		
26 27 13 00-0100		<b>800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	960.17	76.30
26 27 13 00-0102	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,254.79	89.02
26 27 13 00-0103	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,796.72	114.45
26 27 13 00-0104	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,354.60	127.17
26 27 13 00-0105	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,675.85	139.89
26 27 13 00-0106		<b>1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,705.61	76.30
26 27 13 00-0108	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,248.72	89.02
26 27 13 00-0109	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,098.29	114.45
26 27 13 00-0110	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,419.52	127.17
26 27 13 00-0111	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,317.61	139.89
26 27 13 00-0112		<b>800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,428.13	101.74
26 27 13 00-0114	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,855.88	114.45
26 27 13 00-0115	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,675.85	139.89
26 27 13 00-0116	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,366.88	152.60
26 27 13 00-0117	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,525.42	165.32
26 27 13 00-0118		<b>1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0119	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,185.41	101.74
26 27 13 00-0120	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,876.43	114.45
26 27 13 00-0121	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,125.33	139.89
26 27 13 00-0122	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,313.48	152.60
26 27 13 00-0123	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,477.79	165.32
26 27 13 00-0124		<b>Watt/Hour Meters</b> <small>(26 27 13)</small>		
26 27 13 00-0125	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure .....	939.74	61.04
26 27 13 00-0126	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure .....	2,854.87	122.08
26 27 13 00-0127	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure .....	1,516.78	91.56
26 27 13 00-0128	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure .....	1,854.57	91.56
26 27 13 00-0129	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure .....	1,566.40	91.56
26 27 13 00-0130	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....	1,060.35	84.44
26 27 13 00-0131	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....	1,812.89	152.60



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0132			<b>Watt/Hour Meter Systems</b> <small>(26 27 13)</small> Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133			<b>Watt/Hour Meter System Without Main Breaker</b> <small>(26 27 13 00-0132)</small>		
26 27 13 00-0134	EA		400 Amperes System; 200 Amperes M-90 Meter And Enclosure .....	4,649.95	610.51
26 27 13 00-0135	EA		600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure .....	5,447.13	610.51
26 27 13 00-0136			<b>Watt/Hour Meter System With Main Breaker</b> <small>(26 27 13 00-0132)</small>		
26 27 13 00-0137	EA		400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	8,149.99	610.51
26 27 13 00-0138	EA		600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	9,888.29	610.51
26 27 13 00-0139	EA		800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure.....	10,625.49	610.51
<b>26 27 16</b>			<b>Electrical Cabinets And Enclosures</b> <small>(26 27)</small> Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001			<b>NEMA 1 Enclosures, Lockable</b> <small>(26 27 16)</small>		
26 27 16 00-0002			<b>Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0001)</small>		
26 27 16 00-0003			<b>4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0002)</small>		
26 27 16 00-0004	EA		6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	61.92	20.35
26 27 16 00-0005	EA		6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	69.24	22.38
26 27 16 00-0006	EA		8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	76.63	24.41
26 27 16 00-0007	EA		8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	89.44	28.48
26 27 16 00-0008	EA		10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	97.20	30.52
26 27 16 00-0009	EA		10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	105.45	32.56
26 27 16 00-0010	EA		12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	105.19	32.56
26 27 16 00-0011	EA		12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	113.62	34.59
26 27 16 00-0012	EA		12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	122.41	36.63
26 27 16 00-0013	EA		16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	159.36	48.83
26 27 16 00-0014	EA		16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	193.22	59.01
26 27 16 00-0015	EA		18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	183.97	56.97
26 27 16 00-0016			<b>6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0002)</small>		
26 27 16 00-0017	EA		6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	77.12	24.41
26 27 16 00-0018	EA		8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	93.10	28.48
26 27 16 00-0019	EA		10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	111.41	34.59
26 27 16 00-0020	EA		10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	120.02	36.63
26 27 16 00-0021	EA		12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	128.80	38.66
26 27 16 00-0022	EA		12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	137.92	40.69
26 27 16 00-0023	EA		16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	175.69	52.91
26 27 16 00-0024	EA		16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	213.46	65.11
26 27 16 00-0025	EA		18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	205.98	63.08
26 27 16 00-0026	EA		18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	267.90	81.39
26 27 16 00-0027	EA		24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	338.88	93.60
26 27 16 00-0028	EA		24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	384.84	101.74
26 27 16 00-0029	EA		30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	425.96	107.84
26 27 16 00-0030	EA		36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	461.97	111.90
26 27 16 00-0031	EA		24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L).....	303.74	81.39
26 27 16 00-0032			<b>Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0001)</small>		
26 27 16 00-0033			<b>3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0032)</small>		
26 27 16 00-0034	EA		4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	42.57	14.25
26 27 16 00-0035	EA		6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	60.84	20.35
26 27 16 00-0036	EA		8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	67.70	22.38
26 27 16 00-0037			<b>4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0032)</small>		
26 27 16 00-0038	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	47.78	16.28
26 27 16 00-0039	EA		6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	59.33	20.35
26 27 16 00-0040	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	66.09	22.38
26 27 16 00-0041	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	72.95	24.41
26 27 16 00-0042	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	85.11	28.48
26 27 16 00-0043	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	92.24	30.52
26 27 16 00-0044	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	99.69	32.56
26 27 16 00-0045	EA		12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	99.45	32.56
26 27 16 00-0046	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	107.17	34.59
26 27 16 00-0047	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	115.07	36.63
26 27 16 00-0048	EA		16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	151.01	48.83
26 27 16 00-0049	EA		16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	187.40	61.04
26 27 16 00-0050	EA		18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	174.07	56.97
26 27 16 00-0051	EA		18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	225.18	73.25
26 27 16 00-0052	EA		24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	317.59	91.56



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0053			<b>6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0032)		
26 27 16 00-0054	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	73.28	24.41
26 27 16 00-0055	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	80.59	26.45
26 27 16 00-0056	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	92.90	30.52
26 27 16 00-0057	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	105.44	34.59
26 27 16 00-0058	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	113.25	36.63
26 27 16 00-0059	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	121.14	38.66
26 27 16 00-0060	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	129.30	40.69
26 27 16 00-0061	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	165.96	52.91
26 27 16 00-0062	EA		16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	203.98	65.11
26 27 16 00-0063	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	194.49	63.08
26 27 16 00-0064	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	252.55	81.39
26 27 16 00-0065	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	311.15	93.60
26 27 16 00-0066	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	353.66	101.74
26 27 16 00-0067	EA		30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	380.79	107.84
26 27 16 00-0068	EA		36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	413.30	111.90
26 27 16 00-0069			<b>8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0032)		
26 27 16 00-0070	EA		8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	105.44	34.59
26 27 16 00-0071	EA		12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	142.55	44.76
26 27 16 00-0072	EA		16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	181.26	56.97
26 27 16 00-0073	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	225.24	71.21
26 27 16 00-0074	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	215.87	69.18
26 27 16 00-0075	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	267.29	85.46
26 27 16 00-0076	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	299.34	97.67
26 27 16 00-0077	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	342.15	103.77
26 27 16 00-0078	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	389.84	111.90
26 27 16 00-0079	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	414.24	118.02
26 27 16 00-0080	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	434.20	122.08
26 27 16 00-0081	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	443.98	122.08
26 27 16 00-0082			<b>10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0032)		
26 27 16 00-0083	EA		18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	244.35	77.32
26 27 16 00-0084	EA		18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	320.50	99.70
26 27 16 00-0085	EA		24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	327.01	105.80
26 27 16 00-0086	EA		24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	411.87	113.95
26 27 16 00-0087	EA		24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	471.36	126.15
26 27 16 00-0088	EA		30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	517.91	130.22
26 27 16 00-0089	EA		36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	551.10	136.33
26 27 16 00-0090			<b>12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0032)		
26 27 16 00-0091	EA		18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	353.73	109.87
26 27 16 00-0092	EA		24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	355.79	115.98
26 27 16 00-0093	EA		24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	453.31	126.15
26 27 16 00-0094	EA		24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	514.86	138.36
26 27 16 00-0095	EA		30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	572.01	144.46
26 27 16 00-0096	EA		36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	602.36	150.56
26 27 16 00-0097			<b>NEMA 1 Enclosures For Up To 6 Boards, Lockable</b> (26 27 16)		
26 27 16 00-0098			<b>4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures</b> (26 27 16 00-0097)		
26 27 16 00-0099	EA		24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	770.14	89.52
26 27 16 00-0100			<b>NEMA 12 Enclosures, Lockable</b> (26 27 16) Note: Dust-tight enclosures.		
26 27 16 00-0101			<b>Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0100)		
26 27 16 00-0102			<b>4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0101)		
26 27 16 00-0103	EA		4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	82.49	16.28
26 27 16 00-0104	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	107.94	22.38
26 27 16 00-0105	EA		8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	133.89	28.48
26 27 16 00-0106	EA		10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	144.82	30.52
26 27 16 00-0107	EA		12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	161.83	32.56
26 27 16 00-0108	EA		12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	174.11	34.59
26 27 16 00-0109			<b>6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0101)		
26 27 16 00-0110	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	119.65	24.41
26 27 16 00-0111	EA		8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure .....	131.63	26.45
26 27 16 00-0112			<b>Screw Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0100)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 16 00-0113</b> 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	159.75	16.28
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	192.77	22.38
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	217.64	24.41
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	249.21	28.48
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	256.82	30.52
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	301.92	32.56
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	324.03	34.59
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	367.62	36.63
<b>26 27 16 00-0122</b> 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	233.57	24.41
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	263.59	26.45
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	287.99	30.52
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	340.83	36.63
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	370.51	40.69
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	513.06	52.91
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	794.84	81.39
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,035.95	93.60
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,166.48	101.74
<b>26 27 16 00-0132</b> 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,082.67	103.77
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,244.66	111.90
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,366.17	118.02
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,503.07	122.08
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure .....	1,483.04	122.08
<b>26 27 16 00-0138</b> Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
<b>26 27 16 00-0139</b> 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	4,637.07	165.32
<b>26 27 16 00-0141</b> 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	4,687.15	183.12
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	5,372.10	195.84
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	6,186.15	244.17
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	6,912.44	287.91
<b>26 27 16 00-0146</b> 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	5,029.04	287.91
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	5,601.16	305.21
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	6,355.13	325.55
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	7,002.20	325.55
<b>26 27 16 00-0151</b> NEMA 3 Enclosures, Lockable <small>(26 27 16)</small>		
Note: Can be used underground or encased in concrete.		
<b>26 27 16 00-0152</b> 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	254.86	71.21
<b>26 27 16 00-0154</b> 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	272.65	71.21
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	345.09	73.75
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	357.20	73.75
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	445.61	76.30
<b>26 27 16 00-0159</b> 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	341.82	73.75
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	373.47	73.75
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	389.19	76.30
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	486.43	76.30
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	534.25	81.39
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	574.86	86.48
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	597.98	86.48
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	708.48	89.02
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	767.66	91.56

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,046.56	101.74
<b>26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)</b>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	513.41	78.84
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	645.06	89.02
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	753.44	91.56
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	866.19	94.10
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	920.73	94.10
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,046.27	101.74
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,209.65	114.45
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,140.11	109.37
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,214.95	203.47
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,819.49	254.33
<b>26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)</b>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	929.71	96.65
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,394.80	127.17
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,417.08	127.17
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,923.20	190.76
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,524.40	203.47
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	6,376.93	356.07
<b>26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)</b>		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,362.93	254.33
<b>26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)</b>		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	5,156.63	305.21
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,245.97	279.77
<b>26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)</b>		
Note: Rain-tight enclosures.		
<b>26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)</b>		
<b>26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	80.07	20.35
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	88.37	22.38
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	122.65	22.38
<b>26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	160.72	30.52
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	179.77	34.59
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	210.26	38.66
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	226.92	40.69
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	295.40	52.91
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	353.90	65.11
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	406.70	81.39
<b>26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	610.71	103.77
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	676.20	111.90
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	758.40	118.02
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	796.96	122.08
<b>26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	756.38	126.15
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	854.40	142.43
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	945.98	157.69
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,041.97	173.97
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,134.57	189.22
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	498.59	99.70
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	756.38	126.15
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	888.86	130.22
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,117.32	142.43
<b>26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	726.00	100.71
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	814.22	112.93
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	901.41	125.14
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	996.72	138.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,084.94	150.56
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	542.47	75.29
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	726.00	100.71
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	814.22	112.93
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	958.02	132.25
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,084.94	150.56
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,033.08	148.53
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,084.94	150.56
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,141.45	154.64
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,268.16	162.78
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure .....	1,373.45	170.91
<b>26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)</b>		
<b>26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	57.81	16.28
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	70.13	20.35
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	77.40	22.38
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	85.68	24.41
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	99.54	28.48
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	108.30	30.52
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	117.76	32.56
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	117.29	32.56
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	127.84	34.59
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	137.28	36.63
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	208.02	56.97
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	276.46	73.25
<b>26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	81.01	24.41
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	109.57	30.52
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	124.13	34.59
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	134.23	36.63
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	133.53	36.63
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	144.20	38.66
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	154.96	40.69
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	202.15	52.91
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	233.49	63.08
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	310.58	81.39
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	325.11	87.49
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	369.35	93.60
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	414.74	101.74
<b>26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	173.16	44.76
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	252.31	69.18
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	343.45	89.52
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	408.76	103.77
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	460.57	111.90
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	509.46	118.02
<b>26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	379.22	99.70
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	507.53	126.15
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	553.96	130.22
<b>26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	560.33	138.36
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	765.74	150.56
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	791.06	154.64
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	918.88	162.78
<b>26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)</b>		
Note: Water-tight enclosures.		
<b>26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)</b>		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	89.21	14.25
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	104.38	17.29
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	130.64	22.38
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	124.55	22.38
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	166.61	30.52
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	207.24	36.63
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	191.62	34.59
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	223.49	40.69
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	262.71	46.80

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	318.98	59.01
<b>26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0294)</b>		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	82.13	14.25
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	117.49	22.38
<b>26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0297)</b>		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	103.51	19.54
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	110.07	21.16
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	135.49	27.67
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	158.10	30.52
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....	204.15	38.66
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....	238.74	45.78
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure .....	338.22	73.25
<b>26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)</b>		
Note: Water-tight enclosures.		
<b>26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0306)</b>		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure .....	174.92	16.28
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	206.93	22.38
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	262.76	30.52
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure .....	318.90	36.63
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	393.52	46.80
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	465.54	59.01
<b>26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0313)</b>		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	226.42	14.25
For 316L Stainless Steel, Add	51.52	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	295.03	20.35
For 316L Stainless Steel, Add	65.93	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	334.12	22.38
For 316L Stainless Steel, Add	75.11	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	382.05	24.41
For 316L Stainless Steel, Add	86.67	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	469.38	30.52
For 316L Stainless Steel, Add	106.13	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	658.95	38.66
For 316L Stainless Steel, Add	151.82	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	821.07	46.80
For 316L Stainless Steel, Add	190.10	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	990.61	59.01
For 316L Stainless Steel, Add	227.63	
<b>26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0322)</b>		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	103.38	22.38
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	115.95	24.41
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	132.99	28.48
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	144.32	30.52
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	166.35	34.59
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	157.62	34.59
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	182.73	38.66
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	228.06	46.80
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	293.77	64.10
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	383.83	92.28
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	110.25	22.38
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	124.07	24.41
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	141.73	28.48
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	154.93	30.52
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	177.59	34.59
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	168.23	34.59
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	197.12	38.66
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	235.55	46.80
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	309.38	64.10
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	400.67	92.28
<b>26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0343)</b>		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	122.73	22.38
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	131.56	24.41
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	149.84	28.48
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	161.80	30.52
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	190.70	34.59
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	176.97	34.59





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0350	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	215.21	38.66
26 27 16 00-0351	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	256.15	46.80
26 27 16 00-0352	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	318.11	64.10
26 27 16 00-0353	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	415.65	92.28
26 27 16 00-0354	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	127.72	22.38
26 27 16 00-0355	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	140.91	24.41
26 27 16 00-0356	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	158.57	28.48
26 27 16 00-0357	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	171.15	30.52
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	203.18	34.59
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	187.57	34.59
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	228.32	38.66
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	262.39	46.80
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	338.70	64.10
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	437.49	92.28
<b>26 27 16 00-0364</b>			<b>NEMA 7/9 Enclosures, Lockable</b> <small>(26 27 16)</small>		
			Note: Nominal inside dimensions.		
<b>26 27 16 00-0365</b>			<b>4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366	EA		6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,096.21	114.45
			<i>For Mounting Pan, Add</i>	45.91	
26 27 16 00-0367	EA		6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	878.69	122.08
			<i>For Mounting Pan, Add</i>	85.55	
26 27 16 00-0368	EA		8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,702.50	137.34
			<i>For Mounting Pan, Add</i>	117.96	
<b>26 27 16 00-0369</b>			<b>6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370	EA		8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,516.19	137.34
			<i>For Mounting Pan, Add</i>	59.98	
26 27 16 00-0371	EA		8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,969.96	141.16
			<i>For Mounting Pan, Add</i>	117.96	
26 27 16 00-0372	EA		8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,016.95	152.60
			<i>For Mounting Pan, Add</i>	90.24	
26 27 16 00-0373	EA		10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,069.32	152.60
			<i>For Mounting Pan, Add</i>	105.58	
26 27 16 00-0374	EA		10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,922.00	190.76
			<i>For Mounting Pan, Add</i>	138.51	
26 27 16 00-0375	EA		12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,753.36	171.68
			<i>For Mounting Pan, Add</i>	86.48	
26 27 16 00-0376	EA		12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,850.30	190.76
			<i>For Mounting Pan, Add</i>	129.40	
26 27 16 00-0377	EA		12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,410.16	343.36
			<i>For Mounting Pan, Add</i>	174.10	
26 27 16 00-0378	EA		14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	3,495.11	228.91
			<i>For Mounting Pan, Add</i>	169.51	
26 27 16 00-0379	EA		16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,599.01	381.51
			<i>For Mounting Pan, Add</i>	155.62	
26 27 16 00-0380	EA		18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	5,500.69	381.51
			<i>For Mounting Pan, Add</i>	252.99	
<b>26 27 16 00-0381</b>			<b>8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382	EA		8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,353.09	171.68
			<i>For Mounting Pan, Add</i>	90.24	
26 27 16 00-0383	EA		10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,369.37	171.68
			<i>For Mounting Pan, Add</i>	105.58	
26 27 16 00-0384	EA		10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,679.33	171.68
			<i>For Mounting Pan, Add</i>	138.51	
26 27 16 00-0385	EA		12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,969.08	190.76
			<i>For Mounting Pan, Add</i>	86.48	
26 27 16 00-0386	EA		12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,326.20	343.36
			<i>For Mounting Pan, Add</i>	129.40	
26 27 16 00-0387	EA		12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	5,264.71	419.66
			<i>For Mounting Pan, Add</i>	174.10	
26 27 16 00-0388	EA		12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	8,243.53	495.96
			<i>For Mounting Pan, Add</i>	261.82	
26 27 16 00-0389	EA		14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,747.03	419.66
			<i>For Mounting Pan, Add</i>	169.51	
26 27 16 00-0390	EA		16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,874.59	419.66
			<i>For Mounting Pan, Add</i>	155.62	
26 27 16 00-0391	EA		16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	7,237.06	457.80
			<i>For Mounting Pan, Add</i>	233.27	
26 27 16 00-0392	EA		18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	5,983.81	419.66
			<i>For Mounting Pan, Add</i>	252.99	
26 27 16 00-0393	EA		18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	7,977.40	457.80
			<i>For Mounting Pan, Add</i>	369.95	



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 27 Low-Voltage Distribution Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0394	EA		18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	7,923.25 493.19	457.80
26 27 16 00-0395	EA		18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	12,285.90 616.39	610.41
26 27 16 00-0396	EA		24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	9,355.40 573.14	495.96
26 27 16 00-0397	EA		24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	16,929.19 784.62	763.01
<b>26 27 16 00-0398</b>			<b>10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small></b>		
26 27 16 00-0399	EA		12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	8,571.66 261.82	495.96
26 27 16 00-0400	EA		16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	7,890.63 233.27	457.80
26 27 16 00-0401	EA		18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	8,596.08 369.95	495.96
26 27 16 00-0402	EA		18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	10,844.62 616.39	534.11
26 27 16 00-0403	EA		24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	9,605.27 573.14	534.11
26 27 16 00-0404	EA		24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	18,432.41 784.62	763.01
<b>26 27 16 00-0405</b>			<b>12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small></b>		
26 27 16 00-0406	EA		12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure ..... <i>For Mounting Pan, Add</i>	5,381.74 174.10	419.66
<b>26 27 16 00-0407</b>			<b>Breaker Enclosures <small>(26 27 16)</small></b> See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
<b>26 27 16 00-0408</b>			<b>15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small></b>		
26 27 16 00-0409	EA		NEMA 1, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure .....	329.33	81.39
26 27 16 00-0410	EA		NEMA 3R, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure .....	603.38	81.39
26 27 16 00-0411	EA		NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amp, F-Frame Breaker Enclosure .....	1,484.81	111.90
26 27 16 00-0412	EA		NEMA 7, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure .....	2,011.85	122.08
26 27 16 00-0413	EA		NEMA 9, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure .....	1,468.15	122.08
26 27 16 00-0414	EA		NEMA 12, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure .....	519.03	111.90
<b>26 27 16 00-0415</b>			<b>15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small></b>		
26 27 16 00-0416	EA		NEMA 1, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure .....	525.18	111.90
26 27 16 00-0417	EA		NEMA 3R, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure .....	964.04	111.90
26 27 16 00-0418	EA		NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure .....	3,285.34	142.43
26 27 16 00-0419	EA		NEMA 12, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure .....	797.71	142.43
<b>26 27 16 00-0420</b>			<b>125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small></b>		
26 27 16 00-0421	EA		NEMA 1, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure .....	823.90	223.82
26 27 16 00-0422	EA		NEMA 3R, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure .....	1,906.09	223.82
26 27 16 00-0423	EA		NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amp, L-Frame Breaker Enclosure .....	5,568.81	284.86
26 27 16 00-0424	EA		NEMA 12, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure .....	1,365.35	284.86
<b>26 27 16 00-0425</b>			<b>300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small></b>		
26 27 16 00-0426	EA		NEMA 1, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure .....	1,613.34	427.29
26 27 16 00-0427	EA		NEMA 3R, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure .....	2,757.14	427.29
26 27 16 00-0428	EA		NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amp, M-Frame Breaker Enclosure .....	10,020.80	549.37
26 27 16 00-0429	EA		NEMA 12, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure .....	5,432.39	549.37
<b>26 27 16 00-0430</b>			<b>250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small></b>		
26 27 16 00-0431	EA		NEMA 1, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure .....	1,964.94	427.29
26 27 16 00-0432	EA		NEMA 3R, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure .....	3,313.18	427.29
26 27 16 00-0433	EA		NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure .....	6,824.69	549.37
<b>26 27 16 00-0434</b>			<b>Legend Plates <small>(26 27 16)</small></b>		
26 27 16 00-0435	EA		3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters .....	13.62	5.09
26 27 16 00-0436	EA		3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters .....	20.31	5.09

**26 27 23 Indoor Service Poles (26 27)**



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0001	<b>Communication And Power Poles</b> (26 27 23)	
Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002	<b>Steel Communication And Power Poles</b> (26 27 23 00-0001)	
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)	
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)	
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	239.42 45.06
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	258.82 45.06
26 27 23 00-0007	EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	281.24 45.06
26 27 23 00-0008	<b>Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0003)	
Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	49.04 9.29
26 27 23 00-0010	EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	42.92 9.29
26 27 23 00-0011	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	48.20 9.29
26 27 23 00-0012	EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	36.50 9.29
26 27 23 00-0013	EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting.....	30.60 9.29
26 27 23 00-0014	2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)	
26 27 23 00-0015	2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)	
26 27 23 00-0016	EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	305.93 45.06
26 27 23 00-0017	EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	347.61 45.06
26 27 23 00-0018	EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	370.10 45.06
26 27 23 00-0019	<b>Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0014)	
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle.....	33.89 9.29
26 27 23 00-0021	EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle.....	30.78 9.29
26 27 23 00-0022	EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	33.01 9.29
26 27 23 00-0023	<b>3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0002)	
26 27 23 00-0024	<b>3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0023)	
26 27 23 00-0025	EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	394.25 45.06
26 27 23 00-0026	EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	444.42 45.06
26 27 23 00-0027	EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	477.49 45.06
26 27 23 00-0028	<b>Additional Cover Plates For 3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0023)	
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle.....	33.89 9.29
26 27 23 00-0030	EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle.....	30.78 9.29
26 27 23 00-0031	EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	33.01 9.29
26 27 23 00-0032	<b>Aluminum Communication And Power Poles</b> (26 27 23 00-0001)	
26 27 23 00-0033	2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)	
26 27 23 00-0034	2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)	
26 27 23 00-0035	EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	318.98 45.06
26 27 23 00-0036	EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	354.05 45.06
26 27 23 00-0037	EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	393.38 45.06
26 27 23 00-0038	<b>Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0033)	
26 27 23 00-0039	EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	50.24 9.29
26 27 23 00-0040	EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	51.23 9.29
26 27 23 00-0041	EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	54.53 9.29
26 27 23 00-0042	EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	38.35 9.29
26 27 23 00-0043	EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	30.60 9.29
26 27 23 00-0044	<b>2-1/4" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0032)	
26 27 23 00-0045	EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	308.02 45.06
26 27 23 00-0046	EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	344.00 45.06
26 27 23 00-0047	EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	386.38 45.06

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 27 23 00-0048</b>	<b>5" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049	EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	628.47	45.06
26 27 23 00-0050	EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	716.70	45.06
26 27 23 00-0051	EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	815.52	45.06
<b>26 27 23 00-0052</b>	<b>2" Diameter, Round Aluminum Communication And Power Pole</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053	EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	348.23	45.06
26 27 23 00-0054	EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole .....	330.45	45.06
26 27 23 00-0055	EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole .....	419.19	45.06
<b>26 27 26</b>	<b>Wiring Devices</b> <small>(26 27)</small>		
	Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
<b>26 27 26 00-0001</b>	<b>Receptacles</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0002</b>	<b>General Use Receptacles</b> <small>(26 27 26 00-0001)</small>		
<b>26 27 26 00-0003</b>	<b>Receptacle Assemblies</b> <small>(26 27 26 00-0002)</small>		
	Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004	EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly .....	83.61	36.12
26 27 26 00-0005	EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly .....	89.94	38.66
26 27 26 00-0006	EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly .....	108.44	46.29
26 27 26 00-0007	EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly .....	121.09	51.37
26 27 26 00-0008	EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly .....	100.38	36.12
26 27 26 00-0009	EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly .....	107.60	38.66
<b>26 27 26 00-0010</b>	<b>Receptacle Components</b> <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011	EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle .....	24.93	10.18
26 27 26 00-0012	EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle .....	23.95	10.18
26 27 26 00-0013	EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle .....	29.72	10.18
26 27 26 00-0014	EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle .....	33.06	10.18
26 27 26 00-0015	EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle .....	42.40	12.71
26 27 26 00-0016	EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle .....	53.35	12.71
26 27 26 00-0017	EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle .....	26.21	10.18
26 27 26 00-0018	EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle .....	25.18	10.18
26 27 26 00-0019	EA 20 Amperes, 120/277 Volt, Single Receptacle .....	40.23	10.18
26 27 26 00-0020	EA 20 Amperes, 120/277 Volt, Duplex Receptacle .....	32.00	10.18
26 27 26 00-0021	EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle .....	42.40	12.71
26 27 26 00-0022	EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle .....	53.35	12.71
26 27 26 00-0023	EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle .....	88.50	12.71
26 27 26 00-0024	EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle .....	88.50	12.71
26 27 26 00-0025	EA 25 Amperes, 120/277 Volt, Duplex Receptacle .....	71.02	15.26
<b>26 27 26 00-0026</b>	<b>Specialty Receptacles</b> <small>(26 27 26 00-0001)</small>		
<b>26 27 26 00-0027</b>	<b>Specialty Receptacles</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0028	EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle .....	60.47	17.80
26 27 26 00-0029	EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle .....	60.47	17.80
26 27 26 00-0030	EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles .....	59.58	17.80
26 27 26 00-0031	EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle .....	98.66	17.80
26 27 26 00-0032	EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle .....	103.75	20.35
26 27 26 00-0033	EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle .....	94.64	20.35
26 27 26 00-0034	EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle .....	92.07	20.35
26 27 26 00-0035	EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle .....	78.83	20.35
26 27 26 00-0036	EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle .....	71.40	20.35
26 27 26 00-0037	EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle .....	117.77	20.35
26 27 26 00-0038	EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle .....	122.86	22.89
26 27 26 00-0039	EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle .....	134.94	25.44
26 27 26 00-0040	EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle .....	145.12	30.52
26 27 26 00-0041	EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete .....	1,413.88	239.08
26 27 26 00-0042	EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete .....	3,684.64	292.49
26 27 26 00-0043	EA 30 Amperes, 230 Volt, Dryer Receptacle .....	72.85	20.35
26 27 26 00-0044	EA 60 Amperes, 230 Volt, Range Receptacle .....	106.09	30.52
26 27 26 00-0045	EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle .....	73.32	12.71
26 27 26 00-0046	EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete .....	1,438.38	309.72
<b>26 27 26 00-0047</b>	<b>Isolated Ground Receptacles</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048	EA 15 Amp, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex .....	60.47	10.18
	Note: 2 Pole, 3 wire.		
26 27 26 00-0049	EA 20 Amp, 120 Volt Isolated Ground Receptacles, Simplex .....	60.85	12.71
26 27 26 00-0050	EA 20 Amp, 120 Volt Isolated Ground Receptacles, Duplex .....	60.59	12.71
26 27 26 00-0051	EA 30 Amp, 120 Volt Isolated Ground Receptacles, Simplex .....	82.17	20.35
26 27 26 00-0052	EA Locking 15 Amp, 250 Volt Isolated Ground Receptacles .....	69.28	12.71
26 27 26 00-0053	EA Locking 15 Amp, 277 Volt Isolated Ground Receptacles .....	62.72	12.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0054 EA Locking 20 Amp, 120/208 Volt Isolated Ground Receptacles .....	88.34	15.26
26 27 26 00-0055 EA Locking 20 Amp, 277/480 Volt Isolated Ground Receptacles .....	67.90	15.26
26 27 26 00-0056 EA Locking 20 Amp, 347/600 Volt Isolated Ground Receptacles .....	90.77	15.26
26 27 26 00-0057 EA Locking 30 Amp, 120/208 Volt Isolated Ground Receptacles .....	113.05	15.26
26 27 26 00-0058 EA Locking 30 Amp, 277 Volt Isolated Ground Receptacles .....	107.49	20.35
<b>26 27 26 00-0059 Explosion Proof Receptacles</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060 EA 1/2", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly .....	565.14	25.44
26 27 26 00-0061 EA 3/4", 20 Amp, 2 Watt., 3 Pole, Type CPS Explosion Proof Receptacle Assembly .....	523.18	27.98
26 27 26 00-0062 EA 3/4", 30 Amp, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	872.21	50.86
26 27 26 00-0063 EA 3/4", 30 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	1,091.50	50.86
26 27 26 00-0064 EA 1-1/4", 60 Amp, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	1,387.65	76.30
26 27 26 00-0065 EA 1-1/4", 60 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	1,324.16	76.30
<b>26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI)</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle .....	38.17	12.71
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle .....	53.03	15.26
26 27 26 00-0069 EA 15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle .....	41.08	17.31
26 27 26 00-0070 EA 20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle .....	70.23	20.35
<b>26 27 26 00-0071 Arc Fault Circuit Interrupter (AFCI)</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0072 EA 15 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle .....	74.76	12.71
26 27 26 00-0073 EA 20 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle .....	82.89	12.71
<b>26 27 26 00-0074 Locking Receptacle</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amp, Locking Receptacle .....	40.52	12.71
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amp, Locking Receptacle .....	48.34	12.71
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amp, Locking Receptacle .....	45.52	15.26
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amp, Locking Receptacle .....	45.17	15.26
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amp, Locking Receptacle .....	52.06	15.26
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amp, Locking Receptacle .....	60.96	15.26
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle .....	59.97	15.26
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle .....	53.47	15.26
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amp, Locking Receptacle .....	62.45	20.35
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amp, Locking, Receptacle .....	63.28	20.35
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amp, Locking Receptacle .....	116.51	20.35
<b>26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0087 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W) .....	210.90	50.86
26 27 26 00-0088 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W) .....	210.44	50.86
26 27 26 00-0089 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W) .....	218.96	50.86
26 27 26 00-0090 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W) .....	265.22	55.95
26 27 26 00-0091 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W) .....	265.93	55.95
26 27 26 00-0092 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W) .....	264.29	55.95
26 27 26 00-0093 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W) .....	315.40	62.56
26 27 26 00-0094 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W) .....	301.55	62.56
26 27 26 00-0095 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W) .....	323.22	62.56
26 27 26 00-0096 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W) .....	328.18	68.68
26 27 26 00-0097 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W) .....	327.91	68.68
26 27 26 00-0098 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W) .....	329.87	68.68
26 27 26 00-0099 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W) .....	456.96	81.39
26 27 26 00-0100 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W) .....	440.19	81.39
26 27 26 00-0101 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W) .....	451.11	81.39
26 27 26 00-0102 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W) .....	502.33	90.55
26 27 26 00-0103 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W) .....	502.66	90.55
26 27 26 00-0104 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W) .....	502.98	90.55
26 27 26 00-0105 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W) .....	559.41	101.74
26 27 26 00-0106 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W) .....	580.91	101.74
26 27 26 00-0107 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W) .....	625.74	111.90
26 27 26 00-0108 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W) .....	624.12	111.90
26 27 26 00-0109 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W) .....	627.16	111.90
<b>26 27 26 00-0110 Corrosion Resistant Receptacle</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0111 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles .....	78.83	10.18
26 27 26 00-0112 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles .....	163.64	12.71
<b>26 27 26 00-0113 Tamper Resistant Receptacle</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0114 EA 15 Amp, 125 Volt Duplex Tamper Resistant Receptacle .....	23.70	10.18
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amp, 125 Volt Duplex Tamper Resistant Receptacle .....	25.43	10.18
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle .....	30.39	10.18
Note: Pass & Seymour TR5251.		



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0117 EA 20 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle ..... Note: Pass & Seymour TR5351.	32.71	10.18
26 27 26 00-0118 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle ..... Note: Pass & Seymour S1595-TR*CC8.	46.68	10.18
26 27 26 00-0119 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle ..... Note: Pass & Seymour 1595-TRS.	50.01	10.18
26 27 26 00-0120 EA 20 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle ..... Note: Pass & Seymour 2095-TRS.	53.19	10.18
<b>26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)</b>		
26 27 26 00-0122 EA 15 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle .....	47.92	10.18
26 27 26 00-0123 EA 20 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle .....	51.37	10.18
<b>26 27 26 00-0124 Television Receptacle (26 27 26 00-0001)</b>		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete .....	71.85	23.60
<b>26 27 26 00-0126 Switches (26 27 26)</b>		
<b>26 27 26 00-0127 Switches (26 27 26 00-0126)</b>		
<b>26 27 26 00-0128 Switch Assemblies (26 27 26 00-0127)</b> Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly .....	87.98	35.60
26 27 26 00-0130 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly .....	94.70	38.66
26 27 26 00-0131 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly .....	119.73	46.54
26 27 26 00-0132 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly .....	131.12	51.63
26 27 26 00-0133 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly .....	203.77	79.87
26 27 26 00-0134 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly .....	220.86	87.49
26 27 26 00-0135 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly .....	235.29	90.29
26 27 26 00-0136 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly .....	258.07	100.46
<b>26 27 26 00-0137 Switch Components (26 27 26 00-0127)</b>		
26 27 26 00-0138 EA 15 Amperes, 120/277 Volt, SPST Switch .....	29.34	10.18
26 27 26 00-0139 EA 15 Amperes, 120/277 Volt, 3-Way Switch .....	37.26	12.71
26 27 26 00-0140 EA 15 Amperes, 120/277 Volt, 4-Way Switch .....	74.98	20.35
26 27 26 00-0141 EA 15 Amperes, 120/277 Volt, DPST Switch .....	34.57	10.18
26 27 26 00-0142 EA 15 Amperes, 120/277 Volt, Thermal Switch .....	70.14	12.71
26 27 26 00-0143 EA 20 Amperes, 120/277 Volt, SPST Switch .....	35.04	12.71
26 27 26 00-0144 EA 20 Amperes, 120/277 Volt, 3-Way Switch .....	43.66	15.26
26 27 26 00-0145 EA 20 Amperes, 120/277 Volt, 4-Way Switch .....	106.09	20.35
26 27 26 00-0146 EA 20 Amperes, 120/277 Volt, DPST Switch .....	43.42	12.71
26 27 26 00-0147 EA 20 Amperes, 120/277 Volt, DPDT Switch .....	47.14	12.71
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch .....	53.93	12.73
26 27 26 00-0149 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch .....	67.08	12.73
26 27 26 00-0150 EA Momentary Contact Switch With Separate Neon Pilot .....	52.72	15.28
Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0151 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off .....	54.23	17.80
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0152 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch .....	67.83	20.35
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0153 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch .....	106.17	20.35
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0154 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch .....	56.26	20.37
26 27 26 00-0155 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch .....	68.08	20.37
26 27 26 00-0156 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch .....	72.31	25.47
26 27 26 00-0157 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch .....	98.93	28.02
26 27 26 00-0158 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot .....	52.75	16.65
26 27 26 00-0159 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot .....	70.76	16.65
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0160 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch .....	63.00	16.65
26 27 26 00-0161 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch .....	60.32	16.65
26 27 26 00-0162 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch .....	61.26	8.26
26 27 26 00-0163 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch .....	64.88	8.26
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch .....	72.98	31.78
26 27 26 00-0165 EA Three Position, Center Off, Key Operated, Momentary Contact Switch .....	86.13	31.78
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0166 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ) .....	98.02	10.19
26 27 26 00-0167 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH) .....	93.42	10.19
26 27 26 00-0168 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH) .....	161.86	10.18
26 27 26 00-0169 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH) .....	46.15	10.18
26 27 26 00-0170 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV) .....	100.18	10.19
26 27 26 00-0171 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000) .....	116.34	10.19
26 27 26 00-0172 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000) .....	151.62	10.19
26 27 26 00-0173 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9) .....	100.76	10.19





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 26 00-0174</b> Specialty Switches <small>(26 27 26 00-0126)</small>		
<b>26 27 26 00-0175</b> Dimmers With SPST Switch <small>(26 27 26 00-0174)</small>		
26 27 26 00-0176 EA 600 Watt Dimmers With SPST Switch .....	65.21	22.89
26 27 26 00-0177 EA 1,000 Watt Dimmers With SPST Switch .....	125.87	22.89
26 27 26 00-0178 EA 1,500 Watt Dimmers With SPST Switch .....	230.32	36.83
26 27 26 00-0179 EA 2,000 Watt Dimmers With SPST Switch .....	307.72	36.83
26 27 26 00-0180 EA 600 Watt Fluorescent Dimmer Switch .....	165.87	27.16
26 27 26 00-0181 EA 1,000 Watt Fluorescent Dimmer Switch .....	232.47	27.16
26 27 26 00-0182 EA 1,500 Watt Fluorescent Dimmer Switch .....	427.51	40.99
26 27 26 00-0183 EA Remote Speed Switch For Paddle Fan.....	110.61	33.88
26 27 26 00-0184 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer .....	186.84	50.56
<b>26 27 26 00-0185</b> Time Switches <small>(26 27 26 00-0174)</small>		
26 27 26 00-0186 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch .....	131.11	30.52
26 27 26 00-0187 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch .....	134.61	30.52
26 27 26 00-0188 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch .....	131.11	30.52
26 27 26 00-0189 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch .....	134.61	30.52
26 27 26 00-0190 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch .....	154.46	30.52
26 27 26 00-0191 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch .....	154.46	30.52
26 27 26 00-0192 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch .....	292.27	30.52
26 27 26 00-0193 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch .....	292.27	30.52
26 27 26 00-0194 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch .....	248.05	30.52
26 27 26 00-0195 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch .....	275.05	30.52
26 27 26 00-0196 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch .....	275.05	30.52
26 27 26 00-0197 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch .....	338.86	30.52
26 27 26 00-0198 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch .....	349.60	30.52
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch .....	131.11	30.52
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch .....	134.61	30.52
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch .....	131.11	30.52
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch .....	134.61	30.52
26 27 26 00-0203 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch .....	154.46	30.52
26 27 26 00-0204 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch .....	154.46	30.52
26 27 26 00-0205 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch .....	292.27	30.52
26 27 26 00-0206 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch .....	292.27	30.52
26 27 26 00-0207 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch .....	338.86	30.52
26 27 26 00-0208 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch .....	349.60	30.52
<b>26 27 26 00-0209</b> Low Voltage Switching <small>(26 27 26 00-0174)</small>		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector.....	246.88	10.18
<b>26 27 26 00-0211</b> Other Switches <small>(26 27 26 00-0174)</small>		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture .....	34.86	15.26
26 27 26 00-0213 EA Locking Switch, SPST Concealed Devices .....	111.52	40.69
26 27 26 00-0214 EA Locking Switch, 3-Way Concealed Devices .....	113.39	40.69
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard .....	129.46	38.05
26 27 26 00-0216 EA 15 Amperes Momentary Contact Switch .....	121.81	38.05
26 27 26 00-0217 EA 20 Amperes Momentary Contact Switch .....	129.87	38.05
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch .....	114.16	45.85
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch .....	116.41	45.85
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches .....	143.52	56.03
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch .....	130.53	50.94
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch.....	131.09	50.94
<b>26 27 26 00-0223</b> Plates And Covers <small>(26 27 26)</small>		
<b>26 27 26 00-0224</b> Wall Plates <small>(26 27 26 00-0223)</small>		
<b>26 27 26 00-0225</b> Nylon Wall Plates <small>(26 27 26 00-0224)</small>		
26 27 26 00-0226 EA 1 Gang Nylon Switch Plate .....	1.45	0.51
26 27 26 00-0227 EA 2 Gang Nylon Switch Plate .....	2.38	0.76
26 27 26 00-0228 EA 3 Gang Nylon Switch Plate .....	3.36	1.02
26 27 26 00-0229 EA 4 Gang Nylon Switch Plate .....	4.74	1.27
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate .....	1.46	0.51
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate .....	2.43	0.76
<b>26 27 26 00-0232</b> Plastic Wall Plates <small>(26 27 26 00-0224)</small>		
26 27 26 00-0233 EA 1 Gang Plastic Switch Plate .....	1.36	0.51
26 27 26 00-0234 EA 2 Gang Plastic Switch Plate .....	2.21	0.76
26 27 26 00-0235 EA 3 Gang Plastic Switch Plate .....	3.09	1.02
26 27 26 00-0236 EA 4 Gang Plastic Switch Plate .....	4.74	1.27
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate .....	1.36	0.51
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate .....	2.22	0.76

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0239			<b>Brass Wall Plates</b> (26 27 26 00-0224)		
26 27 26 00-0240	EA		1 Gang 0.04" Brass Switch Plate .....	12.69	2.29
26 27 26 00-0241	EA		2 Gang 0.04" Brass Switch Plate .....	22.90	2.65
26 27 26 00-0242	EA		3 Gang 0.04" Brass Switch Plate .....	33.00	2.95
26 27 26 00-0243	EA		4 Gang 0.04" Brass Switch Plate .....	50.59	3.21
26 27 26 00-0244	EA		5 Gang 0.04" Brass Switch Plate .....	61.34	3.41
26 27 26 00-0245	EA		6 Gang 0.04" Brass Switch Plate .....	70.80	3.56
26 27 26 00-0246	EA		1 Gang 0.04" Brass Duplex Receptacle Wall Plate .....	12.69	2.29
26 27 26 00-0247	EA		2 Gang 0.04" Brass Duplex Receptacle Wall Plate .....	26.59	2.65
26 27 26 00-0248	EA		3 Gang 0.04" Brass Duplex Receptacle Wall Plate .....	37.86	2.95
26 27 26 00-0249			<b>Stainless Steel Wall Plates</b> (26 27 26 00-0224)		
26 27 26 00-0250	EA		1 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	7.36	2.29
26 27 26 00-0251	EA		2 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	11.25	2.65
26 27 26 00-0252	EA		3 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	15.31	2.95
26 27 26 00-0253	EA		4 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	21.86	3.21
26 27 26 00-0254	EA		5 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	25.54	3.41
26 27 26 00-0255	EA		6 Gang, 302 Stainless Steel Switch Plate With Satin Finish .....	30.60	3.56
26 27 26 00-0256	EA		1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	7.94	2.29
26 27 26 00-0257	EA		2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	12.63	2.65
26 27 26 00-0258	EA		3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	19.89	2.95
26 27 26 00-0259	EA		4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	23.85	3.21
26 27 26 00-0260			<b>Chrome Wall Plates</b> (26 27 26 00-0224)		
26 27 26 00-0261	EA		1 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	24.16	2.29
26 27 26 00-0262	EA		2 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	44.40	2.65
26 27 26 00-0263	EA		3 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	64.57	2.95
26 27 26 00-0264	EA		1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish .....	24.15	2.29
26 27 26 00-0265			<b>Weatherproof Covers</b> (26 27 26 00-0223)		
26 27 26 00-0266			<b>Stamped Metallic Weatherproof Covers</b> (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.					
26 27 26 00-0267	EA		Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC) .....	9.52	0.51
26 27 26 00-0268	EA		Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC) .....	10.31	0.51
26 27 26 00-0269	EA		Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC) .....	10.31	0.51
26 27 26 00-0270	EA		Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC) .....	10.31	0.51
26 27 26 00-0271	EA		Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC) .....	12.65	0.76
26 27 26 00-0272	EA		Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC) .....	14.35	0.76
26 27 26 00-0273	EA		Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC) .....	14.52	0.76
26 27 26 00-0274	EA		Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC) .....	14.52	0.76
26 27 26 00-0275	EA		Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC) .....	19.70	0.76
26 27 26 00-0276	EA		Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB) .....	18.72	1.02
26 27 26 00-0277	EA		Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT) .....	20.46	1.02
26 27 26 00-0278			<b>Cast Metallic Weatherproof Covers</b> (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.					
26 27 26 00-0279	EA		Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC) .....	11.64	0.51
26 27 26 00-0280	EA		Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA) .....	36.98	0.51
26 27 26 00-0281	EA		Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR) .....	41.46	0.51
26 27 26 00-0282	EA		Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG) .....	11.55	0.51
26 27 26 00-0283	EA		Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT) .....	31.36	0.51
26 27 26 00-0284	EA		Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT) .....	52.11	0.51
26 27 26 00-0285	EA		Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST) .....	66.32	0.51
26 27 26 00-0286	EA		Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC) .....	14.52	0.76
26 27 26 00-0287	EA		Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST) .....	104.75	0.76
26 27 26 00-0288	EA		Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC) .....	24.28	1.02
26 27 26 00-0289	EA		Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST) .....	100.12	1.02
26 27 26 00-0290			<b>Die Cast Aluminum Weatherproof Covers</b> (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.					
26 27 26 00-0291	EA		Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027) .....	3.96	0.51
26 27 26 00-0292	EA		Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026) .....	5.04	0.51
26 27 26 00-0293	EA		Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032) .....	6.78	0.76
26 27 26 00-0294	EA		Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041) .....	7.34	0.76
26 27 26 00-0295	EA		Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042) .....	7.34	0.76
26 27 26 00-0296	EA		Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043) .....	8.15	0.76
26 27 26 00-0297			<b>Heavy Duty Die Cast Aluminum Weatherproof Covers</b> (26 27 26 00-0265)		
Note: Includes baked on lacquer finish and neoprene gasket.					
26 27 26 00-0298	EA		Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510) .....	39.03	0.51



<b>Electrical</b>	<b>26</b>	
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	<b>26</b>
<b>Low-Voltage Distribution Equipment</b>	<b>26 27</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 26 00-0299 Polycarbonate Weatherproof Covers</b> <small>(26 27 26 00-0265)</small> Note: Includes neoprene gasket.		
26 27 26 00-0300 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.99	0.51
26 27 26 00-0301 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....	7.99	0.51
26 27 26 00-0302 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.99	0.51
26 27 26 00-0303 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	9.91	0.76
26 27 26 00-0304 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	9.91	0.76
<b>26 27 26 00-0305 High Impact Thermoplastic Weatherproof Covers</b> <small>(26 27 26 00-0265)</small> Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522).....	53.13	0.51
<b>26 27 26 00-0307 Non Metallic (PVC) Weatherproof Covers</b> <small>(26 27 26 00-0265)</small> Note: Includes neoprene gasket.		
26 27 26 00-0308 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	8.31	0.51
26 27 26 00-0309 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover .....	9.03	0.76
26 27 26 00-0310 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	8.34	0.51
26 27 26 00-0311 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	18.05	0.51
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	20.89	0.51
26 27 26 00-0313 EA 20 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	16.98	0.51
26 27 26 00-0314 EA 30 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	12.72	0.51
26 27 26 00-0315 EA 50 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	14.84	0.51
26 27 26 00-0316 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	13.30	0.51
26 27 26 00-0317 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	19.16	0.76
<b>26 27 26 00-0318 Removal And Reinstallation Of Wiring Devices</b> <small>(26 27 26)</small> Note: Includes storage and cleaning.		
26 27 26 00-0319 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device .....	66.93	
26 27 26 00-0320 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	8.48	
<b>26 27 26 00-0321 In Line Midget Fuseholders</b> <small>(26 27 26)</small> See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0322 EA Single Pole Water Resistant In Line Midget Fuseholder .....	64.42	
26 27 26 00-0323 EA Double Pole Water Resistant In Line Midget Fuseholder.....	133.82	
<b>26 27 26 00-0324 Relay Systems</b> <small>(26 27 26)</small>		
26 27 26 00-0325 EA Relay 2 Position, 10 Amp, 24 Volt Coil .....	69.60	22.89
26 27 26 00-0326 EA Industrial Control Relay 20 Amp, 120 Volt Coil Up To 4 Contacts .....	279.27	76.30
26 27 26 00-0327 EA Industrial Control Relay 20 Amp, 120 Volt Coil 12 Contacts .....	457.01	101.74
<b>26 27 26 00-0328 Limit Switches</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0329 Heavy Duty Precision Oiltight</b> <small>(26 27 26 00-0328)</small>		
<b>26 27 26 00-0330 Lever Arm, Plunger, Wobble Stick Type</b> <small>(26 27 26 00-0329)</small>		
26 27 26 00-0331 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amp Rated .....	392.02	64.10
<b>26 27 33 Power Distribution Units</b> <small>(26 27)</small> Note: Includes wiring connections and testing.		
<b>26 27 33 00-0001 Liebert Precision Power Center</b> <small>(26 27 33)</small> Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C) .....	12,411.50	312.84
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C) .....	14,965.13	339.09
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C) .....	17,049.58	376.42
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C) .....	19,602.60	406.94
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C) .....	21,425.79	508.68
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C) .....	24,058.85	610.41
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C) .....	27,763.77	712.15
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C) .....	29,433.13	813.88
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C) .....	30,909.93	915.62
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA .....	1,141.95	101.74
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA .....	1,693.02	127.17
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA .....	3,744.73	152.60
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit .....	1,627.77	
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only .....	1,220.83	
<b>26 27 73 Door Chimes</b> <small>(26 27)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 73 00-0001</b> Door Bell Chime And Door Button With Built-In Viewer <sup>(26 27 73)</sup> Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV).....	61.25	15.04
<b>26 27 73 00-0003</b> Wireless Door Bell System <sup>(26 27 73)</sup>		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH).....	96.86	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	92.11	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300).....	72.70	
Note: Includes 2 push buttons		
<b>26 27 73 00-0007</b> Door Bell Buzzer System, Wired <sup>(26 27 73)</sup>		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete.....	613.18	211.92
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete.....	279.47	50.86
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete.....	109.25	25.44
Note: Includes removal of existing.		
<b>26 28 Low-Voltage Circuit Protective Devices</b> <sup>(26 20)</sup>		
<b>26 28 13 Fuses</b> <sup>(26 28)</sup>		
<b>26 28 13 00-0001</b> 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses <sup>(26 28 13)</sup>		
26 28 13 00-0002 EA 1 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	21.71	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0003 EA 2 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	21.28	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0004 EA 3 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.69	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0005 EA 5 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.60	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0006 EA 6 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	21.15	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0007 EA 8 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.08	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0008 EA 10 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.83	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0009 EA 15 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.73	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0010 EA 20 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.42	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0011 EA 25 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	18.02	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0012 EA 30 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.60	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
<b>26 28 13 00-0013</b> Class RK1, Time Delay Fuses <sup>(26 28 13)</sup>		
<b>26 28 13 00-0014</b> 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses <sup>(26 28 13 00-0013)</sup>		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.00	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	30.10	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.43	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.25	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	29.93	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	29.14	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.05	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	26.89	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0023 EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.06	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0024 EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	26.85	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0025 EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.76	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0026 EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.13	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0027 EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.60	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0028 EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.22	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	





<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0029 EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.64 4.88	7.32
<b>26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses <sup>(26 28)</sup></b> <small>13 00-0013</small>		
26 28 13 00-0031 EA 70 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.38 6.11	9.16
26 28 13 00-0032 EA 80 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.07 6.11	9.16
26 28 13 00-0033 EA 90 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.47 6.11	9.16
26 28 13 00-0034 EA 100 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.57 6.11	9.16
26 28 13 00-0035 EA 110 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.94 6.11	9.16
26 28 13 00-0036 EA 125 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.31 6.11	9.16
26 28 13 00-0037 EA 150 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.09 6.71	10.07
26 28 13 00-0038 EA 200 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119.90 6.71	10.07
26 28 13 00-0039 EA 250 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	220.29 6.71	10.07
26 28 13 00-0040 EA 300 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	237.77 8.24	12.41
26 28 13 00-0041 EA 350 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	255.16 8.24	12.41
26 28 13 00-0042 EA 400 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	198.12 8.24	12.41
26 28 13 00-0043 EA 450 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	433.41 8.24	12.41
26 28 13 00-0044 EA 500 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	411.91 10.07	15.16
26 28 13 00-0045 EA 600 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	322.99 10.07	15.16
<b>26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses <sup>(26)</sup></b> <small>28 13 00-0013</small>		
26 28 13 00-0047 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.59 4.88	7.32
26 28 13 00-0048 EA 2 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.58 4.88	7.32
26 28 13 00-0049 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.05 4.88	7.32
26 28 13 00-0050 EA 4 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.88 4.88	7.32
26 28 13 00-0051 EA 5 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.16 4.88	7.32
26 28 13 00-0052 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.42 4.88	7.32
26 28 13 00-0053 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.67 4.88	7.32
26 28 13 00-0054 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.39 4.88	7.32
26 28 13 00-0055 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.02 4.88	7.32
26 28 13 00-0056 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.57 4.88	7.32
26 28 13 00-0057 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.92 4.88	7.32
26 28 13 00-0058 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.05 4.88	7.32
26 28 13 00-0059 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.01 4.88	7.32
26 28 13 00-0060 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.50 4.88	7.32
26 28 13 00-0061 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.93 4.88	7.32
<b>26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses <sup>(26 28)</sup></b> <small>13 00-0013</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.74 6.11	9.16
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.59 6.71	10.07
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.04 6.71	10.07
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.47 6.71	10.07
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.24 6.71	10.07



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	192.02	10.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	190.76	12.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	190.30	12.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	357.24	12.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	360.76	15.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	405.85	15.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	368.42	15.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	655.74	15.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	586.59	18.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	512.79	18.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
<b>26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)</b> Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.31	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0080 EA 2 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.81	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0081 EA 3 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.67	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0082 EA 5 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.51	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0083 EA 6 Amp, 600 Volt AC, Class CC Midget Fuse.....	38.88	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0084 EA 8 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.09	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0085 EA 10 Amp, 600 Volt AC, Class CC Midget Fuse.....	39.54	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0086 EA 15 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.52	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0087 EA 20 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.90	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0088 EA 25 Amp, 600 Volt AC, Class CC Midget Fuse.....	34.48	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 28 13 00-0089 EA 30 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.69	7.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
<b>26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)</b>		
26 28 13 00-0091 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.53	5.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 28 13 00-0092 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.86	5.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 28 13 00-0093 EA 6 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.41	6.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 28 13 00-0094 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.82	7.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 28 13 00-0095 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	40.61	7.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 28 13 00-0096 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.91	7.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.58	
26 28 13 00-0097 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	51.03	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 28 13 00-0098 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.15	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 28 13 00-0099 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	72.56	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 28 13 00-0100 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	62.43	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 28 13 00-0101 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	71.01	10.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.11	
26 28 13 00-0102 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	64.45	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 28 13 00-0103 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	63.35	12.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.63	
26 28 13 00-0104 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	96.67	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 28 13 00-0105 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	102.68	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 28 13 00-0106 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	101.15	15.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.16	
26 28 13 00-0107 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	90.28	17.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0108 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.47 10.68	17.80
26 28 13 00-0109 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.07 10.68	17.80
26 28 13 00-0110 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.28 12.21	20.35
26 28 13 00-0111 EA 175 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.62 12.21	20.35
26 28 13 00-0112 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.27 12.21	20.35
26 28 13 00-0113 EA 225 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	345.80 12.21	20.35
26 28 13 00-0114 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	320.27 12.21	20.35
26 28 13 00-0115 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.71 12.21	20.35
26 28 13 00-0116 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	321.85 12.21	20.35
26 28 13 00-0117 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	267.98 13.73	22.89
26 28 13 00-0118 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	559.65 13.73	22.89
26 28 13 00-0119 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	477.26 15.26	25.44
26 28 13 00-0120 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	357.43 15.26	25.44
<b>26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small></b>		
26 28 13 00-0122 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,059.22 7.63	12.71
26 28 13 00-0123 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,061.30 7.63	12.71
26 28 13 00-0124 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,063.24 7.63	12.71
26 28 13 00-0125 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,060.86 9.16	15.26
26 28 13 00-0126 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	977.53 9.16	15.26
26 28 13 00-0127 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,046.56 10.68	17.80
26 28 13 00-0128 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	963.83 10.68	17.80
26 28 13 00-0129 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,077.13 10.68	17.80
26 28 13 00-0130 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,056.25 10.68	17.80
26 28 13 00-0131 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	941.34 12.21	20.35
26 28 13 00-0132 EA 601 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	966.45 12.21	20.35
26 28 13 00-0133 EA 650 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,282.05 12.21	20.35
26 28 13 00-0134 EA 700 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	936.79 12.21	20.35
26 28 13 00-0135 EA 750 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,434.95 13.73	22.89
26 28 13 00-0136 EA 800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	830.67 13.73	22.89
26 28 13 00-0137 EA 900 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,208.50 13.73	22.89
26 28 13 00-0138 EA 1,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	816.86 13.73	22.89
26 28 13 00-0139 EA 1,200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	840.87 13.73	22.89
26 28 13 00-0140 EA 1,350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,857.28 13.73	22.89
26 28 13 00-0141 EA 1,400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,831.32 13.73	22.89
26 28 13 00-0142 EA 1,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,653.24 13.73	22.89
26 28 13 00-0143 EA 1,600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,037.69 15.26	25.44
26 28 13 00-0144 EA 1,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,186.90 15.26	25.44
26 28 13 00-0145 EA 2,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,404.00 15.26	25.44
26 28 13 00-0146 EA 2,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,894.11 15.26	25.44
26 28 13 00-0147 EA 2,501 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,218.93 15.26	25.44
26 28 13 00-0148 EA 3,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,111.37 16.79	27.98

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0149 EA 3,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,353.25 16.79	27.98
26 28 13 00-0150 EA 3,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,049.31 16.79	27.98
26 28 13 00-0151 EA 4,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,924.87 16.79	27.98
26 28 13 00-0152 EA 5,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,608.83 16.79	27.98
26 28 13 00-0153 EA 6,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,621.42 16.79	27.98

**26 28 16 Enclosed Switches And Circuit Breakers (26 28)**

**26 28 16 13 Enclosed Circuit Breakers (26 28 16)**

26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)  
 Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28  
 16 13-0001)

Note: Includes connection of electrical wire.

26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.68 13.21 -10.17 12.21	18.31
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.68 13.21 -10.17 12.21	18.31
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.30 17.56 -12.72 15.26	22.89
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.98 20.92 -12.21 14.65	22.38
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.23 25.45 -12.21 14.65	22.38
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.90 28.03 -12.21 14.65	22.38
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.00 18.42 -12.21 14.65	22.38
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.48 20.62 -15.26 18.31	27.47
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.48 20.62 -15.26 18.31	27.47
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.27 29.03 -20.35 24.42	36.63
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.88 41.66 -25.44 30.52	45.78
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.79 47.56 -27.98 33.57	50.86



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0015	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	186.49	32.56
			<i>For Bolt-On, Add</i>	36.13	
			<i>For Installation In New Panelboard, Deduct</i>	-18.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.98	
26 28 16 13-0016	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	245.79	32.56
			<i>For Bolt-On, Add</i>	43.54	
			<i>For Installation In New Panelboard, Deduct</i>	-18.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.98	
26 28 16 13-0017	EA		3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	145.94	36.63
			<i>For Bolt-On, Add</i>	32.49	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0018	EA		3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	145.94	36.63
			<i>For Bolt-On, Add</i>	32.49	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0019	EA		3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	190.53	45.78
			<i>For Bolt-On, Add</i>	41.62	
			<i>For Installation In New Panelboard, Deduct</i>	-25.44	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0020	EA		3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	283.39	54.94
			<i>For Bolt-On, Add</i>	56.79	
			<i>For Installation In New Panelboard, Deduct</i>	-30.52	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.62	
26 28 16 13-0021	EA		3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....	359.54	64.10
			<i>For Bolt-On, Add</i>	69.87	
			<i>For Installation In New Panelboard, Deduct</i>	-35.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.73	
26 28 16 13-0022			<b>Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0023	EA		1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	67.46	18.31
			<i>For Bolt-On, Add</i>	15.55	
			<i>For Installation In New Panelboard, Deduct</i>	-10.17	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0024	EA		1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	67.46	18.31
			<i>For Bolt-On, Add</i>	15.55	
			<i>For Installation In New Panelboard, Deduct</i>	-10.17	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0025	EA		1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	117.32	22.89
			<i>For Bolt-On, Add</i>	23.57	
			<i>For Installation In New Panelboard, Deduct</i>	-12.72	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.26	
26 28 16 13-0026	EA		1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	176.24	22.38
			<i>For Bolt-On, Add</i>	30.58	
			<i>For Installation In New Panelboard, Deduct</i>	-12.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.65	
26 28 16 13-0027	EA		2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	128.93	27.47
			<i>For Bolt-On, Add</i>	26.80	
			<i>For Installation In New Panelboard, Deduct</i>	-15.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0028	EA		2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	128.93	27.47
			<i>For Bolt-On, Add</i>	26.80	
			<i>For Installation In New Panelboard, Deduct</i>	-15.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0029	EA		2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	248.20	36.63
			<i>For Bolt-On, Add</i>	45.27	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0030	EA		2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	336.80	45.78
			<i>For Bolt-On, Add</i>	59.90	
			<i>For Installation In New Panelboard, Deduct</i>	-25.44	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0031	EA		2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity .....	489.36	50.86
			<i>For Bolt-On, Add</i>	80.75	
			<i>For Installation In New Panelboard, Deduct</i>	-27.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.57	



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0032	EA	3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	203.31	36.63
		<i>For Bolt-On, Add</i>	39.66	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0033	EA	3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	203.31	36.63
		<i>For Bolt-On, Add</i>	39.66	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0034	EA	3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	301.12	45.78
		<i>For Bolt-On, Add</i>	55.44	
		<i>For Installation In New Panelboard, Deduct</i>	-25.44	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0035	EA	3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	425.04	54.94
		<i>For Bolt-On, Add</i>	74.49	
		<i>For Installation In New Panelboard, Deduct</i>	-30.52	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.62	
26 28 16 13-0036	EA	3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	651.29	64.10
		<i>For Bolt-On, Add</i>	106.34	
		<i>For Installation In New Panelboard, Deduct</i>	-35.61	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.73	
26 28 16 13-0037	EA	3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	749.86	68.68
		<i>For Bolt-On, Add</i>	120.44	
		<i>For Installation In New Panelboard, Deduct</i>	-38.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.78	
26 28 16 13-0038	EA	3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	805.42	73.25
		<i>For Bolt-On, Add</i>	129.16	
		<i>For Installation In New Panelboard, Deduct</i>	-40.70	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.83	
26 28 16 13-0039	EA	3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Ampere Interrupting Capacity	950.17	77.83
		<i>For Bolt-On, Add</i>	149.04	
		<i>For Installation In New Panelboard, Deduct</i>	-43.24	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.89	
26 28 16 13-0040		<b>Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small></b>		
		<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0041	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	79.81	18.31
		<i>For Bolt-On, Add</i>	17.10	
		<i>For Installation In New Panelboard, Deduct</i>	-10.17	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0042	EA	35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	79.81	18.31
		<i>For Bolt-On, Add</i>	17.10	
		<i>For Installation In New Panelboard, Deduct</i>	-10.17	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0043	EA	70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	129.51	22.89
		<i>For Bolt-On, Add</i>	25.09	
		<i>For Installation In New Panelboard, Deduct</i>	-12.72	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.26	
26 28 16 13-0044	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	161.11	27.47
		<i>For Bolt-On, Add</i>	30.82	
		<i>For Installation In New Panelboard, Deduct</i>	-15.26	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0045	EA	35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	161.11	27.47
		<i>For Bolt-On, Add</i>	30.82	
		<i>For Installation In New Panelboard, Deduct</i>	-15.26	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0046	EA	70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	279.05	36.63
		<i>For Bolt-On, Add</i>	49.12	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0047	EA	110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	700.49	45.78
		<i>For Bolt-On, Add</i>	105.37	
		<i>For Installation In New Panelboard, Deduct</i>	-25.44	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0048	EA	15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	256.40	36.63
		<i>For Bolt-On, Add</i>	46.29	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0049	EA		35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	256.40	36.63
			<i>For Bolt-On, Add</i>	46.29	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0050	EA		70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	339.76	45.78
			<i>For Bolt-On, Add</i>	60.27	
			<i>For Installation In New Panelboard, Deduct</i>	-25.44	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0051	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	866.61	54.94
			<i>For Bolt-On, Add</i>	129.69	
			<i>For Installation In New Panelboard, Deduct</i>	-30.52	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.62	
<b>26 28 16 13-0052</b>			<b>Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28 16 13-0001)</sup></b>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0053	EA		15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	90.29	18.31
			<i>For Bolt-On, Add</i>	18.41	
			<i>For Installation In New Panelboard, Deduct</i>	-10.17	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0054	EA		35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	90.29	18.31
			<i>For Bolt-On, Add</i>	18.41	
			<i>For Installation In New Panelboard, Deduct</i>	-10.17	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0055	EA		70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	106.83	22.89
			<i>For Bolt-On, Add</i>	22.25	
			<i>For Installation In New Panelboard, Deduct</i>	-12.72	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.26	
26 28 16 13-0056	EA		15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	174.84	22.38
			<i>For Bolt-On, Add</i>	30.40	
			<i>For Installation In New Panelboard, Deduct</i>	-12.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.65	
26 28 16 13-0057	EA		15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	188.45	27.47
			<i>For Bolt-On, Add</i>	34.24	
			<i>For Installation In New Panelboard, Deduct</i>	-15.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0058	EA		35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	188.45	27.47
			<i>For Bolt-On, Add</i>	34.24	
			<i>For Installation In New Panelboard, Deduct</i>	-15.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0059	EA		70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	229.51	36.63
			<i>For Bolt-On, Add</i>	42.93	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0060	EA		110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	328.81	45.78
			<i>For Bolt-On, Add</i>	58.91	
			<i>For Installation In New Panelboard, Deduct</i>	-25.44	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0061	EA		150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	422.70	50.86
			<i>For Bolt-On, Add</i>	72.42	
			<i>For Installation In New Panelboard, Deduct</i>	-27.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.57	
26 28 16 13-0062	EA		250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	526.78	59.52
			<i>For Bolt-On, Add</i>	88.99	
			<i>For Installation In New Panelboard, Deduct</i>	-33.06	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.68	
26 28 16 13-0063	EA		300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	569.65	68.68
			<i>For Bolt-On, Add</i>	97.91	
			<i>For Installation In New Panelboard, Deduct</i>	-38.15	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.78	
26 28 16 13-0064	EA		15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	229.96	36.63
			<i>For Bolt-On, Add</i>	42.99	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0065	EA		35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	229.96	36.63
			<i>For Bolt-On, Add</i>	42.99	
			<i>For Installation In New Panelboard, Deduct</i>	-20.35	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	270.56	45.78
For Bolt-On, Add	51.62	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	406.94	54.94
For Bolt-On, Add	72.23	
For Installation In New Panelboard, Deduct	-30.52	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	533.78	71.21
For Bolt-On, Add	94.32	
For Installation In New Panelboard, Deduct	-39.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	657.96	82.41
For Bolt-On, Add	114.29	
For Installation In New Panelboard, Deduct	-45.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.94	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	699.53	87.49
For Bolt-On, Add	121.27	
For Installation In New Panelboard, Deduct	-48.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.99	
<b>26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	195.28	27.47
For Bolt-On, Add	35.09	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	195.28	27.47
For Bolt-On, Add	35.09	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	295.55	36.63
For Bolt-On, Add	51.19	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	476.41	45.78
For Bolt-On, Add	77.36	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	738.32	56.97
For Bolt-On, Add	114.54	
For Installation In New Panelboard, Deduct	-31.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.15	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	835.46	59.52
For Bolt-On, Add	127.58	
For Installation In New Panelboard, Deduct	-33.06	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.68	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	913.87	68.68
For Bolt-On, Add	140.94	
For Installation In New Panelboard, Deduct	-38.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.78	
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	279.88	36.63
For Bolt-On, Add	49.23	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	279.88	36.63
For Bolt-On, Add	49.23	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	352.47	45.78
For Bolt-On, Add	61.86	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	592.10	54.94
For Bolt-On, Add	95.38	
For Installation In New Panelboard, Deduct	-30.52	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	862.86	71.21
For Bolt-On, Add	135.45	
For Installation In New Panelboard, Deduct	-39.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,018.85	82.41
For Bolt-On, Add	159.40	
For Installation In New Panelboard, Deduct	-45.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.94	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,101.72	87.49
For Bolt-On, Add	171.54	
For Installation In New Panelboard, Deduct	-48.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.99	
<b>26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28</sup></b>		
<sup>16 13-0001)</sup>		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	202.07	27.47
For Bolt-On, Add	35.94	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	202.07	27.47
For Bolt-On, Add	35.94	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	358.24	36.63
For Bolt-On, Add	59.02	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	650.21	45.78
For Bolt-On, Add	99.08	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	1,025.61	56.97
For Bolt-On, Add	150.46	
For Installation In New Panelboard, Deduct	-31.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.15	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	1,165.88	59.52
For Bolt-On, Add	168.88	
For Installation In New Panelboard, Deduct	-33.06	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.68	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	1,270.43	68.68
For Bolt-On, Add	185.51	
For Installation In New Panelboard, Deduct	-38.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.78	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Ampere Interrupting Capacity .....	326.89	36.63
For Bolt-On, Add	55.10	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	326.89	36.63
For Bolt-On, Add	55.10	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	433.95	45.78
For Bolt-On, Add	72.05	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	790.69	54.94
For Bolt-On, Add	120.20	
For Installation In New Panelboard, Deduct	-30.52	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	999.38	71.21
For Bolt-On, Add	152.52	
For Installation In New Panelboard, Deduct	-39.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	1,586.16	82.41
For Bolt-On, Add	230.32	
For Installation In New Panelboard, Deduct	-45.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.94	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0100	EA	3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	1,689.10	87.49
		<i>For Bolt-On, Add</i>	244.96	
		<i>For Installation In New Panelboard, Deduct</i>	-48.32	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.99	
<b>26 28 16 13-0101</b>		<b>Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28)</sup></b>		
		<sup>16 13-0001)</sup> <i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0102	EA	1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	107.40	18.31
		<i>For Bolt-On, Add</i>	20.55	
		<i>For Installation In New Panelboard, Deduct</i>	-10.17	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0103	EA	1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	107.40	18.31
		<i>For Bolt-On, Add</i>	20.55	
		<i>For Installation In New Panelboard, Deduct</i>	-10.17	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	
26 28 16 13-0104	EA	1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	183.46	22.89
		<i>For Bolt-On, Add</i>	31.83	
		<i>For Installation In New Panelboard, Deduct</i>	-12.72	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.26	
26 28 16 13-0105	EA	2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	229.88	27.47
		<i>For Bolt-On, Add</i>	39.42	
		<i>For Installation In New Panelboard, Deduct</i>	-15.26	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0106	EA	2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	229.88	27.47
		<i>For Bolt-On, Add</i>	39.42	
		<i>For Installation In New Panelboard, Deduct</i>	-15.26	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31	
26 28 16 13-0107	EA	2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	415.77	36.63
		<i>For Bolt-On, Add</i>	66.21	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0108	EA	2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	765.12	45.78
		<i>For Bolt-On, Add</i>	113.44	
		<i>For Installation In New Panelboard, Deduct</i>	-25.44	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0109	EA	2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	1,479.51	56.97
		<i>For Bolt-On, Add</i>	207.19	
		<i>For Installation In New Panelboard, Deduct</i>	-31.79	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.15	
26 28 16 13-0110	EA	3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	377.06	36.63
		<i>For Bolt-On, Add</i>	61.38	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0111	EA	3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	377.06	36.63
		<i>For Bolt-On, Add</i>	61.38	
		<i>For Installation In New Panelboard, Deduct</i>	-20.35	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42	
26 28 16 13-0112	EA	3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	503.65	45.78
		<i>For Bolt-On, Add</i>	80.76	
		<i>For Installation In New Panelboard, Deduct</i>	-25.44	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 28 16 13-0113	EA	3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	942.17	54.94
		<i>For Bolt-On, Add</i>	139.14	
		<i>For Installation In New Panelboard, Deduct</i>	-30.52	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.62	
26 28 16 13-0114	EA	3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	1,839.47	71.21
		<i>For Bolt-On, Add</i>	257.53	
		<i>For Installation In New Panelboard, Deduct</i>	-39.42	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.31	
<b>26 28 16 13-0115</b>		<b>Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28)</sup></b>		
		<sup>16 13-0001)</sup> <i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0116	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	155.61	18.31
		<i>For Bolt-On, Add</i>	26.57	
		<i>For Installation In New Panelboard, Deduct</i>	-10.17	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.21	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity .....	155.61	18.31
For Bolt-On, Add	26.57	
For Installation In New Panelboard, Deduct	-10.17	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	234.73	22.89
For Bolt-On, Add	38.24	
For Installation In New Panelboard, Deduct	-12.72	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	285.65	27.47
For Bolt-On, Add	46.39	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	285.65	27.47
For Bolt-On, Add	46.39	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	535.83	36.63
For Bolt-On, Add	81.22	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	968.84	45.78
For Bolt-On, Add	138.91	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	1,924.45	50.86
For Bolt-On, Add	260.14	
For Installation In New Panelboard, Deduct	-27.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.57	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	488.82	36.63
For Bolt-On, Add	75.35	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	488.82	36.63
For Bolt-On, Add	75.35	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	676.32	45.78
For Bolt-On, Add	102.34	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	1,093.65	54.94
For Bolt-On, Add	158.07	
For Installation In New Panelboard, Deduct	-30.52	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	2,429.91	71.21
For Bolt-On, Add	331.33	
For Installation In New Panelboard, Deduct	-39.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
<b>26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	72.40	18.31
For Bolt-On, Add	16.17	
For Installation In New Panelboard, Deduct	-10.17	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	150.40	27.47
For Bolt-On, Add	29.48	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	237.05	36.63
For Bolt-On, Add	43.87	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	147.35	18.31
For Bolt-On, Add	25.54	
For Installation In New Panelboard, Deduct	-10.17	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	147.35	18.31
For Bolt-On, Add	25.54	
For Installation In New Panelboard, Deduct	-10.17	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	293.47	36.63
For Bolt-On, Add	50.93	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	331.59	27.47
For Bolt-On, Add	52.13	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	331.59	27.47
For Bolt-On, Add	52.13	
For Installation In New Panelboard, Deduct	-15.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.31	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	639.38	36.63
For Bolt-On, Add	94.17	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	1,083.76	45.78
For Bolt-On, Add	153.27	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	2,381.76	56.97
For Bolt-On, Add	319.97	
For Installation In New Panelboard, Deduct	-31.79	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.15	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	554.55	36.63
For Bolt-On, Add	83.56	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	554.55	36.63
For Bolt-On, Add	83.56	
For Installation In New Panelboard, Deduct	-20.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.42	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	771.73	45.78
For Bolt-On, Add	114.27	
For Installation In New Panelboard, Deduct	-25.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.52	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	1,177.23	54.94
For Bolt-On, Add	168.52	
For Installation In New Panelboard, Deduct	-30.52	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.62	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	2,961.62	71.21
For Bolt-On, Add	397.80	
For Installation In New Panelboard, Deduct	-39.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.31	
<b>26 28 16 16 Enclosed Switches (26 28 16)</b>		
26 28 16 16-0001 Motor And Circuit Disconnects (26 28 16 16)		
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002 NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0003 Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
Note: Includes fuses and neutral bar.		
26 28 16 16-0004 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0005 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	355.43	101.74
26 28 16 16-0006 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	549.12	122.59
26 28 16 16-0007 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	748.32	143.45
26 28 16 16-0008 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,283.67	225.85
26 28 16 16-0009 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,696.69	350.99



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0010 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,486.13	518.85
26 28 16 16-0011 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,095.21	610.41
26 28 16 16-0012 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,156.20	712.15
<b>26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>		
26 28 16 16-0014 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	530.29	113.03
26 28 16 16-0015 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	639.75	136.23
26 28 16 16-0016 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,002.80	159.22
26 28 16 16-0017 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,486.77	251.29
26 28 16 16-0018 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,203.82	389.85
26 28 16 16-0019 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,986.26	576.23
26 28 16 16-0020 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,329.17	677.87
26 28 16 16-0021 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,978.85	791.30
<b>26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>		
26 28 16 16-0023 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	509.53	159.72
26 28 16 16-0024 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	744.75	212.12
26 28 16 16-0025 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	990.04	235.52
26 28 16 16-0026 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,565.11	368.79
26 28 16 16-0027 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,210.11	605.32
26 28 16 16-0028 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,186.17	847.97
<b>26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>		
26 28 16 16-0030 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	657.45	176.51
26 28 16 16-0031 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	838.44	235.52
26 28 16 16-0032 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,214.36	265.02
26 28 16 16-0033 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,791.54	403.89
26 28 16 16-0034 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,926.78	652.12
26 28 16 16-0035 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,291.43	942.07
26 28 16 16-0036 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,913.90	1,119.09
26 28 16 16-0037 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	12,631.96	1,271.69
<b>26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>		
26 28 16 16-0039 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	494.93	159.72
26 28 16 16-0040 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	725.89	212.12
26 28 16 16-0041 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	955.73	235.52
26 28 16 16-0042 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,612.30	368.79
26 28 16 16-0043 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,476.06	605.32
26 28 16 16-0044 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,586.28	847.97
26 28 16 16-0045 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,159.94	1,068.22
26 28 16 16-0046 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	11,270.53	1,220.83

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0047		<b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	711.00	176.51
26 28 16 16-0049	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	904.25	235.52
26 28 16 16-0050	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,310.59	265.02
26 28 16 16-0051	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,935.58	403.89
26 28 16 16-0052	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,234.10	652.12
26 28 16 16-0053	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,834.20	942.07
26 28 16 16-0054	EA	800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,815.04	1,119.09
26 28 16 16-0055	EA	1,200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	13,605.38	1,271.69
26 28 16 16-0056		<b>Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	346.20	147.21
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	533.50	204.79
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	726.85	235.52
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,139.98	376.83
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,276.17	628.01
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,690.94	856.41
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,236.83	1,017.35
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,887.13	1,187.35
26 28 16 16-0066		<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	382.37	162.48
26 28 16 16-0068	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	603.74	229.82
26 28 16 16-0069	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	820.73	261.67
26 28 16 16-0070	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,274.34	409.59
26 28 16 16-0071	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,448.80	672.88
26 28 16 16-0072	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,081.96	941.97
26 28 16 16-0073	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,787.68	1,017.35
26 28 16 16-0074	EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,641.50	1,187.35
26 28 16 16-0075		<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	407.66	132.25
26 28 16 16-0077	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	618.99	184.15
26 28 16 16-0078	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	825.17	212.12
26 28 16 16-0079	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,298.10	339.29
26 28 16 16-0080	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,568.31	565.14
26 28 16 16-0081	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,102.45	770.64
26 28 16 16-0082	EA	800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,949.03	915.62
26 28 16 16-0083	EA	1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,021.85	1,068.22



<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0086)</small></b>		
26 28 16 16-0085 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	445.21	145.99
26 28 16 16-0086 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	681.82	207.03
26 28 16 16-0087 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	900.94	235.52
26 28 16 16-0088 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,401.35	368.79
26 28 16 16-0089 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,751.75	605.32
26 28 16 16-0090 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,439.53	847.97
26 28 16 16-0091 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,313.28	915.62
<b>26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small></b>		
26 28 16 16-0093 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	472.38	146.20
26 28 16 16-0094 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	728.15	206.83
26 28 16 16-0095 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	976.30	235.52
26 28 16 16-0096 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,517.43	368.59
26 28 16 16-0097 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,914.13	605.52
26 28 16 16-0098 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,920.08	847.77
26 28 16 16-0099 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,862.07	915.62
26 28 16 16-0100 EA 1,200 Amp, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,250.95	1,068.22
<b>26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0105)</small></b>		
26 28 16 16-0102 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	668.66	132.46
26 28 16 16-0103 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	814.74	184.35
26 28 16 16-0104 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,228.90	211.92
26 28 16 16-0105 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,850.27	339.09
<b>26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0110)</small></b>		
26 28 16 16-0107 EA 30 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	724.92	145.99
26 28 16 16-0108 EA 60 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	891.57	207.03
26 28 16 16-0109 EA 100 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,333.52	235.52
26 28 16 16-0110 EA 200 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,992.97	368.79
<b>26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0115)</small></b>		
26 28 16 16-0112 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	800.55	146.20
26 28 16 16-0113 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	974.99	206.83
26 28 16 16-0114 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,483.54	235.52
26 28 16 16-0115 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,211.50	368.59
<b>26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small></b>		
Note: Includes fuses and neutral bar.		
<b>26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small></b>		



<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 28</b>	<b>Low-Voltage Circuit Protective Devices</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0118	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	251.75	88.51
26 28 16 16-0119	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	339.14	106.51
26 28 16 16-0120	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	510.42	124.53
26 28 16 16-0121	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	935.07	196.45
26 28 16 16-0122	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,177.54	304.70
26 28 16 16-0123	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,038.29	450.99
<b>26 28 16 16-0124</b>		<b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	352.71	139.07
26 28 16 16-0126	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	494.43	184.35
26 28 16 16-0127	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	670.94	204.79
26 28 16 16-0128	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,184.19	320.56
26 28 16 16-0129	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,623.28	526.58
26 28 16 16-0130	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,614.67	737.17
<b>26 28 16 16-0131</b>		<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	388.00	139.07
26 28 16 16-0133	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	551.33	184.35
26 28 16 16-0134	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	722.71	204.79
26 28 16 16-0135	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,314.62	320.56
26 28 16 16-0136	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,846.23	526.58
26 28 16 16-0137	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,756.00	737.17
<b>26 28 16 16-0138</b>		<b>General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small>		
<b>26 28 16 16-0139</b>		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	344.62	123.10
26 28 16 16-0141	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	452.33	141.52
26 28 16 16-0142	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	994.84	226.16
26 28 16 16-0143	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,102.57	376.42
26 28 16 16-0144	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,600.14	512.95
<b>26 28 16 16-0145</b>		<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	325.25	115.16
26 28 16 16-0147	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	446.35	160.23
26 28 16 16-0148	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	661.91	184.35
26 28 16 16-0149	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,132.89	294.93
26 28 16 16-0150	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,333.53	491.59
26 28 16 16-0151	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,915.91	670.03
<b>26 28 16 16-0152</b>		<b>NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0001)</small>		





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0153	<b>Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small>	
	Note: With fuses, neutral bar, and hub if required.	
26 28 16 16-0154	<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>	
26 28 16 16-0155 EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	513.45 119.54
26 28 16 16-0156 EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	803.40 143.45
26 28 16 16-0157 EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,000.55 166.84
26 28 16 16-0158 EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,467.47 254.33
26 28 16 16-0159 EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,198.16 406.94
26 28 16 16-0160 EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,556.30 542.76
26 28 16 16-0161 EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,272.32 610.41
26 28 16 16-0162 EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,933.86 712.15
26 28 16 16-0163	<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>	
26 28 16 16-0164 EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	870.37 159.32
26 28 16 16-0165 EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,038.02 195.34
26 28 16 16-0166 EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,458.13 224.33
26 28 16 16-0167 EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,060.27 336.44
26 28 16 16-0168 EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,431.41 550.49
26 28 16 16-0169 EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,076.07 757.01
26 28 16 16-0170 EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,804.68 871.67
26 28 16 16-0171 EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,010.05 981.24
26 28 16 16-0172	<b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>	
26 28 16 16-0173 EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	665.28 188.21
26 28 16 16-0174 EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,041.75 249.25
26 28 16 16-0175 EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,247.83 273.67
26 28 16 16-0176 EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,855.51 423.73
26 28 16 16-0177 EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,952.46 706.55
26 28 16 16-0178 EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,525.35 942.07
26 28 16 16-0179	<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>	
26 28 16 16-0180 EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	999.55 223.11
26 28 16 16-0181 EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,194.71 273.47
26 28 16 16-0182 EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,584.57 313.95
26 28 16 16-0183 EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,306.11 471.04
26 28 16 16-0184 EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,792.98 770.75
26 28 16 16-0185 EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,562.49 1,059.78
26 28 16 16-0186 EA	800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,040.86 1,220.83
26 28 16 16-0187 EA	1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,388.36 1,373.42

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 28 16 16-0188		<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>		
26 28 16 16-0189	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	725.11	188.21
26 28 16 16-0190	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,043.48	249.25
26 28 16 16-0191	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,331.96	273.67
26 28 16 16-0192	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,911.62	423.73
26 28 16 16-0193	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,003.94	706.55
26 28 16 16-0194	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,091.58	942.07
26 28 16 16-0195	EA	800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,692.15	1,068.22
26 28 16 16-0196	EA	1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,542.91	1,220.83
26 28 16 16-0197		<b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small>		
26 28 16 16-0198	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,033.89	223.31
26 28 16 16-0199	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,233.31	273.67
26 28 16 16-0200	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,670.36	313.85
26 28 16 16-0201	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,361.87	471.04
26 28 16 16-0202	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,994.59	770.64
26 28 16 16-0203	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,794.13	1,059.57
26 28 16 16-0204	EA	800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,770.26	1,220.83
26 28 16 16-0205	EA	1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,349.81	1,373.42
26 28 16 16-0206		<b>Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small>		
26 28 16 16-0207		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>		
26 28 16 16-0208	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	484.95	104.68
26 28 16 16-0209	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	784.53	144.97
26 28 16 16-0210	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,024.66	166.23
26 28 16 16-0211	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,376.80	269.19
26 28 16 16-0212	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,023.13	449.06
26 28 16 16-0213	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,451.12	598.71
26 28 16 16-0214	EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,699.56	712.45
26 28 16 16-0215	EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,449.08	814.18
26 28 16 16-0216		<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>		
26 28 16 16-0217	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	545.29	115.37
26 28 16 16-0218	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	888.29	161.45
26 28 16 16-0219	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,155.50	182.31
26 28 16 16-0220	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,523.53	282.63
26 28 16 16-0221	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,420.12	471.04
26 28 16 16-0222	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,880.21	628.01
26 28 16 16-0223	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,274.05	746.33



<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0224 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,200.11	847.77
<b>26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small></b>		
26 28 16 16-0226 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	589.62	156.98
26 28 16 16-0227 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	929.44	217.41
26 28 16 16-0228 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,190.89	249.35
26 28 16 16-0229 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,645.94	403.79
26 28 16 16-0230 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,515.27	673.49
26 28 16 16-0231 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,134.23	897.82
26 28 16 16-0232 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,506.26	1,068.22
26 28 16 16-0233 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,531.54	1,220.83
<b>26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small></b>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	641.34	172.95
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,014.46	242.23
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,288.60	273.47
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,746.22	423.93
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,736.00	706.45
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,531.90	941.97
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	10,134.20	1,119.09
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,352.31	1,271.69
<b>26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small></b>		
26 28 16 16-0244 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	368.37	172.95
26 28 16 16-0245 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,049.77	242.23
26 28 16 16-0246 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,337.83	273.47
26 28 16 16-0247 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,806.13	423.93
26 28 16 16-0248 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,891.12	706.45
26 28 16 16-0249 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,508.20	941.97
26 28 16 16-0250 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,120.92	1,119.09
26 28 16 16-0251 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	13,334.24	1,271.69
<b>26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small></b>		
Note: With fuses, neutral bar, and hub if required.		
<b>26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small></b>		
26 28 16 16-0254 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	322.75	103.97
26 28 16 16-0255 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	449.20	124.73
26 28 16 16-0256 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	585.50	145.07
26 28 16 16-0257 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,179.21	221.17
26 28 16 16-0258 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,831.99	353.84

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0259 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	4,975.94	472.05
<b>26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0260)</sup>		
26 28 16 16-0261 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	442.96	163.90
26 28 16 16-0262 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	633.65	216.80
26 28 16 16-0263 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	770.64	237.85
26 28 16 16-0264 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,474.83	368.59
26 28 16 16-0265 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,354.45	614.28
26 28 16 16-0266 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	5,677.52	819.37
<b>26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0267)</sup>		
26 28 16 16-0268 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	492.40	163.80
26 28 16 16-0269 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	683.31	216.80
26 28 16 16-0270 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	930.37	237.85
26 28 16 16-0271 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,577.97	368.59
26 28 16 16-0272 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,420.69	614.38
26 28 16 16-0273 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,194.35	819.37
26 28 16 16-0274 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	8,783.87	928.23
<b>26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0152)</sup>		
<b>26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0275)</sup>		
26 28 16 16-0277 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	290.44	91.06
26 28 16 16-0278 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	468.90	126.05
26 28 16 16-0279 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	496.26	144.56
26 28 16 16-0280 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,205.37	233.99
26 28 16 16-0281 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,905.67	390.46
26 28 16 16-0282 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	5,075.31	520.58
<b>26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0275)</sup>		
26 28 16 16-0284 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	452.94	136.53
26 28 16 16-0285 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	649.93	189.02
26 28 16 16-0286 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	934.76	216.80
26 28 16 16-0287 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,600.91	351.09
<b>26 28 16 16-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0001)</sup>		
<b>26 28 16 16-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0288)</sup> Note: With fuses and neutral bar (stainless steel).		
<b>26 28 16 16-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0289)</sup>		
26 28 16 16-0291 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,303.05	101.74





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0292 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,565.41	122.59
26 28 16 16-0293 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,163.79	143.24
26 28 16 16-0294 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,383.68	226.05
26 28 16 16-0295 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	8,881.55	350.78
26 28 16 16-0296 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	12,770.57	518.65
<b>26 28 16 16-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0298 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,649.13	113.03
26 28 16 16-0299 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,836.81	136.12
26 28 16 16-0300 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,421.86	159.11
26 28 16 16-0301 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,843.46	251.29
26 28 16 16-0302 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,230.76	390.05
26 28 16 16-0303 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	13,240.31	576.23
<b>26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0305 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,477.03	159.93
26 28 16 16-0306 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,854.48	211.92
26 28 16 16-0307 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,490.61	235.52
26 28 16 16-0308 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,971.46	368.59
26 28 16 16-0309 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,661.72	605.52
26 28 16 16-0310 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	13,783.48	847.77
<b>26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0312 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,780.72	176.61
26 28 16 16-0313 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,040.38	235.52
26 28 16 16-0314 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,643.10	264.92
26 28 16 16-0315 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,161.77	403.69
26 28 16 16-0316 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,985.56	652.12
26 28 16 16-0317 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	14,212.94	941.97
<b>26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0319 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,756.82	159.93
26 28 16 16-0320 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,204.26	211.92
26 28 16 16-0321 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,190.51	235.52
26 28 16 16-0322 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,928.53	368.59
26 28 16 16-0323 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	11,545.37	605.52
26 28 16 16-0324 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	16,372.06	847.77
<b>26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0326 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,111.33	176.61



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0327 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,415.29	235.52
26 28 16 16-0328 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,357.52	264.92
26 28 16 16-0329 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	6,126.84	403.69
26 28 16 16-0330 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	11,894.62	652.12
26 28 16 16-0331 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	16,836.81	941.97
<b>26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small></b>		
<b>26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b>		
26 28 16 16-0334 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,251.42	101.74
26 28 16 16-0335 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,528.28	141.52
26 28 16 16-0336 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,847.26	162.78
26 28 16 16-0337 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,960.21	260.03
26 28 16 16-0338 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	7,198.26	432.99
26 28 16 16-0339 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	10,301.00	589.87
<b>26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b>		
26 28 16 16-0341 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,422.18	112.21
26 28 16 16-0342 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,740.38	158.71
26 28 16 16-0343 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,243.67	180.89
26 28 16 16-0344 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,496.85	282.63
26 28 16 16-0345 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	8,167.17	465.14
26 28 16 16-0346 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	11,726.65	651.11
<b>26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b>		
26 28 16 16-0348 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,312.88	132.46
26 28 16 16-0349 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,593.96	184.35
26 28 16 16-0350 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,669.06	211.92
26 28 16 16-0351 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,199.93	339.09
26 28 16 16-0352 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,570.48	565.24
26 28 16 16-0353 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	10,963.12	770.75
<b>26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b>		
26 28 16 16-0355 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,490.00	146.20
26 28 16 16-0356 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,836.60	206.83
26 28 16 16-0357 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,352.93	235.52
26 28 16 16-0358 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,668.74	368.59
26 28 16 16-0359 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	9,284.50	605.52
26 28 16 16-0360 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	12,463.22	847.77



<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0361</b> 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,791.22	132.46
26 28 16 16-0363 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,155.02	184.35
26 28 16 16-0364 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,791.89	211.92
26 28 16 16-0365 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,314.49	339.09
<b>26 28 16 16-0366</b> 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,036.67	146.20
26 28 16 16-0368 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,455.17	206.83
26 28 16 16-0369 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,463.00	235.52
26 28 16 16-0370 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	8,321.50	368.59
<b>26 28 16 16-0371</b> Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
<b>26 28 16 16-0372</b> 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,370.40	176.51
26 28 16 16-0374 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,711.66	235.52
26 28 16 16-0375 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,829.20	265.02
26 28 16 16-0376 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	6,302.51	403.89
<b>26 28 16 16-0377</b> 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,214.26	145.99
26 28 16 16-0379 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,549.54	207.03
26 28 16 16-0380 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,560.96	235.52
26 28 16 16-0381 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	6,213.44	368.79
<b>26 28 16 16-0382</b> Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
<b>26 28 16 16-0383</b> 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,703.30	176.51
26 28 16 16-0385 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,084.16	235.52
26 28 16 16-0386 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,533.65	265.02
<b>26 28 16 16-0387</b> 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,529.23	145.99
26 28 16 16-0389 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,902.23	207.03
26 28 16 16-0390 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,237.12	235.52
<b>26 28 16 16-0391</b> NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
<b>26 28 16 16-0392</b> Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
Note: With fuses and neutral bar.		
26 28 16 16-0393 EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	2,156.10	203.47

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0394 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	2,438.19	242.23
26 28 16 16-0395 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	2,705.29	273.47
26 28 16 16-0396 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	5,696.35	423.93
<b>26 28 16 16-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	1,698.53	242.23
26 28 16 16-0399 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	1,984.94	273.47
26 28 16 16-0400 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	3,626.78	423.93
<b>26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>		
<b>26 28 16 16-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0401)</small>		
Note: With fuses and neutral bar.		
<b>26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	493.87	101.74
26 28 16 16-0405 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	642.04	122.59
26 28 16 16-0406 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	869.32	143.45
26 28 16 16-0407 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,461.80	225.85
26 28 16 16-0408 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,082.36	350.99
26 28 16 16-0409 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	5,532.79	518.85
<b>26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	762.29	112.93
26 28 16 16-0412 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	791.51	136.33
26 28 16 16-0413 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,129.68	159.22
26 28 16 16-0414 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,768.08	251.29
26 28 16 16-0415 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,812.94	389.65
26 28 16 16-0416 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	7,487.27	576.33
<b>26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	691.64	159.72
26 28 16 16-0419 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	955.34	212.12
26 28 16 16-0420 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,288.98	235.52
26 28 16 16-0421 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,921.10	368.79
26 28 16 16-0422 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,737.72	605.32
26 28 16 16-0423 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	5,965.51	847.97
<b>26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	910.90	176.51
26 28 16 16-0426 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,041.52	235.52
26 28 16 16-0427 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,512.20	265.02
26 28 16 16-0428 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,205.84	403.89
26 28 16 16-0429 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,568.70	652.12
26 28 16 16-0430 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	8,515.74	942.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0431</b> <b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	736.02	159.72
26 28 16 16-0433 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	985.84	212.12
26 28 16 16-0434 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,384.69	235.52
26 28 16 16-0435 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,041.26	368.79
26 28 16 16-0436 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,059.46	605.32
26 28 16 16-0437 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	6,182.87	847.97
<b>26 28 16 16-0438</b> <b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	962.36	176.51
26 28 16 16-0440 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,178.79	235.52
26 28 16 16-0441 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,606.58	265.02
26 28 16 16-0442 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,386.00	403.89
26 28 16 16-0443 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,860.39	652.12
26 28 16 16-0444 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	8,755.95	942.07
<b>26 28 16 16-0445</b> <b>Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0401)</small>		
<b>26 28 16 16-0446</b> <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	515.48	147.01
26 28 16 16-0448 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	685.41	204.99
26 28 16 16-0449 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	902.02	235.52
26 28 16 16-0450 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,294.09	376.93
26 28 16 16-0451 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,808.16	628.22
26 28 16 16-0452 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,420.67	856.61
<b>26 28 16 16-0453</b> <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	574.26	162.27
26 28 16 16-0455 EA 60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase .....	762.14	229.92
26 28 16 16-0456 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,005.19	261.46
26 28 16 16-0457 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,406.08	409.49
26 28 16 16-0458 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,975.23	672.98
26 28 16 16-0459 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,884.12	942.07
<b>26 28 16 16-0460</b> <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	664.25	132.25
26 28 16 16-0462 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	876.47	184.15
26 28 16 16-0463 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,158.56	212.12
26 28 16 16-0464 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,662.97	339.29
26 28 16 16-0465 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,465.25	565.14
26 28 16 16-0466 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	5,437.72	770.64



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0467</b> 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0465)</small>		
26 28 16 16-0468 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	654.39	145.99
26 28 16 16-0469 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	949.76	207.03
26 28 16 16-0470 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,243.13	235.52
26 28 16 16-0471 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,650.90	368.79
26 28 16 16-0472 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,488.94	605.32
26 28 16 16-0473 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	6,457.08	847.97
<b>26 28 16 16-0474</b> 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0465)</small>		
26 28 16 16-0475 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	791.24	132.25
26 28 16 16-0476 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	948.69	184.15
26 28 16 16-0477 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,454.41	212.12
26 28 16 16-0478 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,307.10	339.29
26 28 16 16-0479 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,127.33	432.38
<b>26 28 16 16-0480</b> 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0465)</small>		
26 28 16 16-0481 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	824.26	145.99
26 28 16 16-0482 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,035.55	207.03
26 28 16 16-0483 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,556.28	235.52
26 28 16 16-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,375.84	368.79
26 28 16 16-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,418.64	569.72
<b>26 28 16 16-0486</b> Double Throw Safety Switches <small>(26 28 16 16-0001)</small>		
<b>26 28 16 16-0487</b> NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
<b>26 28 16 16-0488</b> 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	620.82	130.73
26 28 16 16-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	910.87	170.91
26 28 16 16-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,273.05	223.31
26 28 16 16-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,695.57	290.45
26 28 16 16-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,997.61	363.19
26 28 16 16-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,250.96	582.43
<b>26 28 16 16-0495</b> 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0496 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	788.43	183.12
26 28 16 16-0497 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,095.95	239.08
26 28 16 16-0498 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,636.49	312.84
26 28 16 16-0499 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,388.51	406.94
26 28 16 16-0500 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,510.86	508.68
26 28 16 16-0501 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,719.18	813.88
<b>26 28 16 16-0502</b> 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0503 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,043.57	228.91
26 28 16 16-0504 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,508.78	299.11
26 28 16 16-0505 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,638.75	390.66
26 28 16 16-0506 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,607.10	507.66
26 28 16 16-0507 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,162.06	635.85
26 28 16 16-0508 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	9,120.92	1,018.88





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0509</b>	<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>	
26 28 16 16-0510 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,044.68	170.91
26 28 16 16-0511 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,561.50	223.31
26 28 16 16-0512 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,291.07	290.45
26 28 16 16-0513 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,314.07	363.19
26 28 16 16-0514 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,867.70	582.43
<b>26 28 16 16-0515</b>	<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>	
26 28 16 16-0516 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,180.86	239.08
26 28 16 16-0517 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,740.06	312.84
26 28 16 16-0518 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,523.05	406.94
26 28 16 16-0519 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,604.78	508.68
26 28 16 16-0520 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,331.94	813.88
<b>26 28 16 16-0521</b>	<b>600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>	
26 28 16 16-0522 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,592.58	299.11
26 28 16 16-0523 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,759.78	390.66
26 28 16 16-0524 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,857.05	507.66
26 28 16 16-0525 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,695.43	635.85
26 28 16 16-0526 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,717.84	1,018.88
<b>26 28 16 16-0527</b>	<b>NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small></b>	
<b>26 28 16 16-0528</b>	<b>240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0529 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,576.35	223.31
26 28 16 16-0530 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,557.21	290.45
26 28 16 16-0531 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,497.01	363.19
26 28 16 16-0532 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	19,790.06	582.43
<b>26 28 16 16-0533</b>	<b>240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0534 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,071.43	312.33
26 28 16 16-0535 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,318.58	406.43
26 28 16 16-0536 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,889.21	508.68
26 28 16 16-0537 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,989.51	815.41
<b>26 28 16 16-0538</b>	<b>240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0539 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,977.61	229.01
26 28 16 16-0540 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,456.29	298.89
26 28 16 16-0541 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,436.62	390.56
26 28 16 16-0542 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,955.21	507.87
26 28 16 16-0543 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,354.07	635.85
26 28 16 16-0544 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,817.72	1,018.98
<b>26 28 16 16-0545</b>	<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0546 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,332.09	170.91
26 28 16 16-0547 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,017.85	223.31
26 28 16 16-0548 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,642.96	290.45
26 28 16 16-0549 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,958.40	363.19
26 28 16 16-0550 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,324.64	582.43
<b>26 28 16 16-0551</b>	<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0552 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,521.06	239.08
26 28 16 16-0553 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,279.30	312.33
26 28 16 16-0554 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,036.07	406.43
26 28 16 16-0555 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,577.13	508.68
26 28 16 16-0556 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,217.78	815.41
<b>26 28 16 16-0557</b>	<b>600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small></b>	
26 28 16 16-0558 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,475.68	298.89
26 28 16 16-0559 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,445.51	390.56

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 28</b>	<b>Low-Voltage Circuit Protective Devices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0560 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,078.73	507.87
26 28 16 16-0561 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	8,339.49	635.85
26 28 16 16-0562 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	9,898.10	1,018.98
<b>26 28 16 16-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0486)		
<b>26 28 16 16-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0565 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,568.86	130.83
26 28 16 16-0566 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,782.99	170.81
26 28 16 16-0567 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,025.36	223.21
26 28 16 16-0568 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,780.03	290.25
26 28 16 16-0569 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,147.38	363.29
26 28 16 16-0570 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,561.93	582.23
<b>26 28 16 16-0571 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0572 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,811.47	183.12
26 28 16 16-0573 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,148.51	239.08
26 28 16 16-0574 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,557.21	312.33
26 28 16 16-0575 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,557.64	406.43
26 28 16 16-0576 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,423.56	508.68
26 28 16 16-0577 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,525.65	815.41
<b>26 28 16 16-0578 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0579 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,694.62	229.01
26 28 16 16-0580 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,160.82	298.89
26 28 16 16-0581 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,328.56	390.56
26 28 16 16-0582 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,874.54	507.87
26 28 16 16-0583 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,794.66	635.85
26 28 16 16-0584 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,471.84	1,018.98
<b>26 28 16 16-0585 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0586 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,337.96	170.81
26 28 16 16-0587 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,469.92	223.21
26 28 16 16-0588 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,648.03	290.25
26 28 16 16-0589 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,692.85	363.29
26 28 16 16-0590 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,011.77	582.23
<b>26 28 16 16-0591 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0592 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,579.67	239.08
26 28 16 16-0593 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,755.08	312.33
26 28 16 16-0594 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,093.88	406.43
26 28 16 16-0595 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,297.35	508.68
26 28 16 16-0596 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,888.11	815.41
<b>26 28 16 16-0597 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> (26 28 16 16-0563)		
26 28 16 16-0598 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,192.44	298.89
26 28 16 16-0599 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,561.78	390.56
26 28 16 16-0600 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,012.01	507.87
26 28 16 16-0601 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,090.54	635.85
26 28 16 16-0602 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,864.03	1,018.98
<b>26 28 16 16-0603 Removal And Reinstallation Of Disconnect Switches</b> (26 28 16 16-0001) Note: Includes storage and cleaning.		
26 28 16 16-0604 EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch .....	508.68	
26 28 16 16-0605 EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch.....	661.31	
26 28 16 16-0606 EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch.....	737.64	
26 28 16 16-0607 EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch.....	864.81	
<b>26 28 16 16-0608 Bolted Contact Switches</b> (26 28 16 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
<b>26 28 16 16-0609 Electrical Trip, Bolted Contact Switches</b> (26 28 16 16-0608)		
<b>26 28 16 16-0610 Top Feed, Electrical Trip, Bolted Contact Switches</b> (26 28 16 16-0609)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0611 EA 800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	6,428.23	1,017.35
26 28 16 16-0612 EA 1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	7,023.68	1,220.83
26 28 16 16-0613 EA 1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	7,695.24	1,424.30
26 28 16 16-0614 EA 2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	8,192.82	1,627.77
26 28 16 16-0615 EA 2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	9,248.64	1,831.24
26 28 16 16-0616 EA 3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	11,457.21	2,034.71
26 28 16 16-0617 EA 4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	15,279.85	2,441.65
<b>26 28 16 16-0618 Bottom Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0609)</small>		
26 28 16 16-0619 EA 800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	6,779.86	1,017.35
26 28 16 16-0620 EA 1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	7,444.18	1,220.83
26 28 16 16-0621 EA 1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	8,112.12	1,424.30
26 28 16 16-0622 EA 2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	8,790.95	1,627.77
26 28 16 16-0623 EA 2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	9,893.89	1,831.24
26 28 16 16-0624 EA 3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	12,667.97	2,034.71
26 28 16 16-0625 EA 4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	16,541.35	2,441.65
<b>26 28 16 16-0626 Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0608)</small>		
<b>26 28 16 16-0627 Top Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 EA 800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	4,847.73	1,017.35
26 28 16 16-0629 EA 1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	5,462.02	1,220.83
26 28 16 16-0630 EA 1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	6,106.03	1,424.30
26 28 16 16-0631 EA 2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	6,745.71	1,627.77
26 28 16 16-0632 EA 2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	7,421.63	1,831.24
26 28 16 16-0633 EA 3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	9,630.20	2,034.71
26 28 16 16-0634 EA 4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	13,409.34	2,441.65
<b>26 28 16 16-0635 Bottom Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>		
26 28 16 16-0636 EA 800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	5,080.45	1,017.35
26 28 16 16-0637 EA 1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	5,813.64	1,220.83
26 28 16 16-0638 EA 1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	6,446.78	1,424.30
26 28 16 16-0639 EA 2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	7,195.94	1,627.77
26 28 16 16-0640 EA 2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	7,987.13	1,831.24
26 28 16 16-0641 EA 3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	10,750.33	2,034.71
26 28 16 16-0642 EA 4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	14,583.84	2,441.65
<b>26 29 Low-Voltage Controlllers</b> <small>(26 20)</small>		
<b>26 29 13 Enclosed Controlllers</b> <small>(26 29)</small>		
<b>26 29 13 13 Across-The-Line Motor Controlllers</b> <small>(26 29 13)</small>		
<b>26 29 13 13-0001 Manual Motor Starters</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0002 Fractional HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	205.57	50.94
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.89	
<i>For Oversized Enclosure, Add</i>	28.94	
<i>For Pilot Light, Add</i>	42.44	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	269.42	66.22
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.89	
<i>For Oversized Enclosure, Add</i>	28.94	
<i>For Pilot Light, Add</i>	42.44	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	234.51	50.94
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.89	
<i>For Oversized Enclosure, Add</i>	28.94	
<i>For Pilot Light, Add</i>	42.44	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	298.36	66.22
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.89	
<i>For Oversized Enclosure, Add</i>	28.94	
<i>For Pilot Light, Add</i>	42.44	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	218.11	50.94
<i>For Oversized Enclosure, Add</i>	28.94	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	285.82	66.22
<i>For Oversized Enclosure, Add</i>	28.94	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	451.67	61.12
<i>For Pilot Light, Add</i>	110.93	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	518.40	76.40
<i>For Pilot Light, Add</i>	110.93	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0011	EA	NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	480.61	61.12
26 29 13 13-0012	EA	NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	544.45	76.40
<b>26 29 13 13-0013</b>		<b>Non Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014	EA	NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)..... Note: NEMA 1 or flush cover plate installation.	163.30	50.94
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0015	EA	NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2)..... Note: NEMA 1 or flush cover plate installation.	271.11	66.22
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0016	EA	NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)..... Note: NEMA 1 or flush cover plate installation.	184.65	56.03
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0017	EA	NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6)..... Note: NEMA 1 or flush cover plate installation.	293.40	71.31
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0018	EA	NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)..... Note: NEMA 1 or flush cover plate installation.	190.29	50.94
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0019	EA	NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4)..... Note: NEMA 1 or flush cover plate installation.	299.04	66.22
		<i>For Oversize Enclosure, Add</i>	13.96	
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0020	EA	NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	414.51	61.12
		<i>For Pilot Light, Add</i>	106.11	
26 29 13 13-0021	EA	NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	512.08	76.40
		<i>For Pilot Light, Add</i>	106.11	
26 29 13 13-0022	EA	NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	436.79	66.22
		<i>For Pilot Light, Add</i>	106.11	
26 29 13 13-0023	EA	NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	531.58	81.50
		<i>For Pilot Light, Add</i>	106.11	
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	440.57	61.12
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	545.58	76.40
26 29 13 13-0026	EA	Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	119.71	35.65
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0027	EA	Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	227.52	50.94
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0028	EA	Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	141.07	40.75
		<i>For Pilot Light, Add</i>	67.02	
26 29 13 13-0029	EA	Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	248.87	56.03
		<i>For Pilot Light, Add</i>	67.02	
<b>26 29 13 13-0030</b>		<b>Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	450.50	91.68
		<i>For Pilot Light, Add</i>	107.97	
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	654.96	122.25
		<i>For Pilot Light, Add</i>	107.97	
<b>26 29 13 13-0033</b>		<b>Two Speed Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	450.50	91.68
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	654.96	122.25
<b>26 29 13 13-0036</b>		<b>Non-Reversing Integral HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1) .....	418.40	61.12
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1) .....	418.40	61.12
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11) .....	878.64	71.31
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1) .....	878.64	71.31
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1) .....	1,152.58	71.31
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1) .....	534.27	71.31
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1) .....	358.89	45.85
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1) .....	498.03	66.22
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1) .....	498.03	66.22
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11) .....	1,053.76	76.40
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1) .....	1,053.76	76.40
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1) .....	1,348.93	76.40
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1) .....	613.90	76.40
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1) .....	438.54	50.94
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2) .....	657.74	71.31
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2) .....	657.74	71.31
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12) .....	1,254.96	81.50
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2) .....	1,254.96	81.50
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2) .....	1,537.59	81.50
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2) .....	776.51	81.50
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2) .....	601.12	56.03
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2) .....	517.93	76.40
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2) .....	517.93	76.40
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12) .....	978.17	86.59
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2) .....	978.17	86.59
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2) .....	1,259.84	86.59
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2) .....	634.77	86.59
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2) .....	461.34	61.12
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3) .....	597.58	81.50
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3) .....	597.58	81.50
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13) .....	1,153.31	91.68
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3) .....	1,153.31	91.68
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3) .....	1,455.23	91.68
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3) .....	713.45	91.68
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3) .....	538.07	66.22
<b>26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1) .....	1,225.35	106.97
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1) .....	1,225.35	106.97
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1) .....	1,082.23	76.40
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1) .....	1,451.18	117.15
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1) .....	1,308.07	86.59



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,225.35	106.97
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,082.23	76.40
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,451.18	117.15
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,308.07	86.59
<b>26 29 13 13-0083 Magnetic Contactors/Starters</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0084 Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0083)</small>		
<b>26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	480.59	101.87
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	541.48	112.05
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	521.11	101.87
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	582.96	112.05
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	643.84	122.25
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	813.97	152.80
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,026.53	183.37
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	609.00	112.05
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	669.88	122.25
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	732.71	132.43
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	934.35	178.27
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,145.95	208.84
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,042.22	122.25
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,156.41	152.80
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,506.18	203.75
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,569.26	152.80
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,782.06	203.75
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,267.85	254.68
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,249.45	305.62
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,559.46	254.68
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	3,909.24	305.62
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,301.76	356.55
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,220.75	305.62
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,002.30	407.49
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	20,841.69	611.24
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	29,834.44	916.85
<b>26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	510.50	101.87
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	571.38	112.05
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	551.01	101.87
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	613.82	112.05
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	674.71	122.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	846.77	152.80
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,060.30	183.37
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	640.83	112.05
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	703.64	122.25
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	764.54	132.43
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	967.15	178.27
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,177.78	208.84
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,184.99	122.25
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,300.13	152.80
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,648.94	203.75
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	1,849.96	152.80
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,061.80	203.75
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,548.55	254.68
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,141.12	254.68
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,490.91	305.62
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,062.40	407.49
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	25,503.66	611.24
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2).....	34,509.91	916.85
<b>26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	778.77	112.05
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	839.65	122.25
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	929.49	132.43
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,485.94	122.25
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,602.06	152.80
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,206.87	152.80
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,417.74	203.75
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	5,672.55	305.62
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	12,086.46	407.49
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	29,211.62	611.24
<b>26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,156.05	122.25
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,198.49	122.25
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,259.38	132.43
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,461.99	178.27
26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,289.82	152.80
26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,462.41	203.75
26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	6,882.18	305.62
26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,086.46	407.49
26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	32,371.69	611.24

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0157			<b>NEMA 7/9, Non Reversing, Magnetic Contactors</b> (26 29 13 13-0084) Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,322.73	163.00
26 29 13 13-0159			<b>Non Reversing, Magnetic Starters</b> (26 29 13 13-0083)		
26 29 13 13-0160			<b>Open Enclosure, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	576.09	101.87
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	596.46	112.05
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	643.73	112.05
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	712.33	122.25
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,147.11	183.37
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	733.55	122.25
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	862.93	132.43
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	903.44	132.43
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,130.00	122.25
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,280.84	152.80
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	1,987.52	203.75
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,225.64	305.62
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	9,643.10	407.49
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	22,208.55	611.24
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	31,987.45	916.85
26 29 13 13-0176			<b>NEMA 1, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	607.92	101.87
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	628.29	112.05
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	675.56	112.05
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	744.16	122.25
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	764.42	122.25
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	833.99	132.43
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	936.24	132.43
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,273.73	122.25
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,424.57	152.80
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,268.22	203.75
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	4,807.30	305.62
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	10,706.10	407.49
26 29 13 13-0189			<b>NEMA 12, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	840.51	112.05
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	909.11	122.25
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	929.36	122.25
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	998.94	132.43
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,101.19	132.43
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,575.65	122.25
26 29 13 13-0196	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,725.53	152.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,624.17	203.75
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	5,987.98	305.62
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	13,727.26	407.49
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	32,791.29	611.24
<b>26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	840.51	112.05
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	909.11	122.25
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	929.36	122.25
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	998.94	132.43
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,101.19	132.43
26 29 13 13-0207 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,575.65	122.25
26 29 13 13-0208 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,725.53	152.80
26 29 13 13-0209 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,624.17	203.75
26 29 13 13-0210 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	5,987.98	305.62
<b>26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>		
Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,420.28	173.18
26 29 13 13-0213 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	2,981.69	173.18
26 29 13 13-0214 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,071.51	183.37
26 29 13 13-0215 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	4,774.28	203.75
26 29 13 13-0216 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	5,755.88	254.68
26 29 13 13-0217 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,180.47	356.55
<b>26 29 13 13-0218 NEMA 4/4X, Non Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0219 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,155.93	112.05
26 29 13 13-0220 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,225.50	122.25
26 29 13 13-0221 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,259.26	122.25
26 29 13 13-0222 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,328.84	132.43
26 29 13 13-0223 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,431.08	132.43
26 29 13 13-0224 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,261.49	122.25
26 29 13 13-0225 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,667.88	203.75
26 29 13 13-0226 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,196.64	305.62
26 29 13 13-0227 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	16,051.01	407.49
<b>26 29 13 13-0228 NEMA 4X, Non Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>		
Note: Glass polyester enclosure.		
26 29 13 13-0229 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,414.26	152.80
26 29 13 13-0230 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,483.94	203.75
26 29 13 13-0231 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	8,844.19	305.62
<b>26 29 13 13-0232 NEMA 7/9, Non Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>		
Note: Bolted cast iron enclosure.		
26 29 13 13-0233 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,342.99	163.00



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0234 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,420.28	173.18
26 29 13 13-0235 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,455.01	173.18
26 29 13 13-0236 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	2,528.43	183.37
26 29 13 13-0237 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,646.12	183.37
26 29 13 13-0238 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	3,902.28	203.75
<b>26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)</b>		
<b>26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)</b>		
26 29 13 13-0241 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,097.33	132.43
26 29 13 13-0242 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,158.10	132.43
26 29 13 13-0243 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,282.65	142.62
26 29 13 13-0244 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,330.04	152.80
26 29 13 13-0245 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,363.80	152.80
26 29 13 13-0246 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,459.41	163.00
26 29 13 13-0247 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,518.91	178.27
26 29 13 13-0248 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SC07).....	1,553.63	178.27
26 29 13 13-0249 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,673.36	203.75
26 29 13 13-0250 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,375.15	305.62
26 29 13 13-0251 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	10,109.59	458.42
26 29 13 13-0252 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	18,883.53	611.24
26 29 13 13-0253 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	61,323.62	1,120.60
<b>26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)</b>		
26 29 13 13-0255 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,134.83	122.25
26 29 13 13-0256 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,184.14	132.43
26 29 13 13-0257 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,218.87	132.43
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,340.52	142.62
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,389.84	152.80
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,424.57	152.80
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,546.22	163.00
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,605.72	178.27
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,640.45	178.27
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	2,899.08	203.75
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	4,765.82	305.62
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	10,827.26	458.42
<b>26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)</b>		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,636.78	152.80
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,671.51	152.80
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	1,887.39	178.27
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,311.93	203.75
<b>26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)</b>		
Note: Brushed stainless steel enclosure.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,055.42	152.80
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,425.95	163.00
<b>26 29 13 13-0275 Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small></b>		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2) .....	153.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3) .....	261.97	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2) .....	153.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	261.97	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	261.97	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	129.27	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	114.97	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8) .....	153.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	129.27	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	172.87	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0286 EA 30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	194.17	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0287 EA 45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	336.07	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0288 EA 60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	356.97	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0289 EA 30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	426.97	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0290 EA 45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	747.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0291 EA 60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	747.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	44.00	7.64
<i>For Factory Installed Accessory, Deduct</i>	<i>-15.28</i>	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	90.77	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4) .....	120.07	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	93.67	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	51.92	7.64
<i>For Factory Installed Accessory, Deduct</i>	<i>-15.28</i>	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1) .....	31.02	7.64
<i>For Factory Installed Accessory, Deduct</i>	<i>-15.28</i>	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	168.87	10.19
<i>For Factory Installed Accessory, Deduct</i>	<i>-20.37</i>	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	292.77	12.73
<i>For Factory Installed Accessory, Deduct</i>	<i>-25.47</i>	
<b>26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small></b>		
<b>26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small></b>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	530.98	122.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-244.49</i>	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	530.01	122.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-244.49</i>	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) .....	573.55	132.43
<i>For Factory Installed Accessory, Deduct</i>	<i>-264.87</i>	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	565.71	122.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-244.49</i>	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) .....	615.02	132.43
<i>For Factory Installed Accessory, Deduct</i>	<i>-264.87</i>	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	596.57	122.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-244.49</i>	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) .....	690.50	152.80
<i>For Factory Installed Accessory, Deduct</i>	<i>-305.62</i>	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	770.56	152.80
<i>For Factory Installed Accessory, Deduct</i>	-305.62	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	971.97	178.27
<i>For Factory Installed Accessory, Deduct</i>	-356.55	
<b>26 29 13 13-0311 NEMA 1, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	544.37	112.05
<i>For Factory Installed Accessory, Deduct</i>	-224.12	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	587.89	122.25
<i>For Factory Installed Accessory, Deduct</i>	-244.49	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	585.96	122.25
<i>For Factory Installed Accessory, Deduct</i>	-244.49	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	632.39	132.43
<i>For Factory Installed Accessory, Deduct</i>	-264.87	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32).....	622.62	122.25
<i>For Factory Installed Accessory, Deduct</i>	-244.49	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33).....	672.90	132.43
<i>For Factory Installed Accessory, Deduct</i>	-264.87	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42).....	655.41	122.25
<i>For Factory Installed Accessory, Deduct</i>	-244.49	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43).....	748.38	152.80
<i>For Factory Installed Accessory, Deduct</i>	-305.62	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52).....	825.55	152.80
<i>For Factory Installed Accessory, Deduct</i>	-305.62	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53).....	1,027.92	178.27
<i>For Factory Installed Accessory, Deduct</i>	-356.55	
<b>26 29 13 13-0322 Definite Purpose Starter Accessory</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory.....	172.87	12.73
Note: Or Hand-Off-Auto Selector Switch Kit		
<i>For Factory Installed Accessory, Deduct</i>	-25.47	
<b>26 29 13 13-0324 Panel Mounted Miniature Contactor</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	156.85	50.94
26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	184.40	56.03
26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	184.40	56.03
26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	205.21	61.12
26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	174.22	50.94
26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	183.86	50.94
26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	200.79	56.03
26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	210.44	56.03
26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	206.58	56.03
26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	210.44	56.03
26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	224.50	61.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	216.23	56.03
26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	234.14	61.12
26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	218.16	56.03
26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	218.16	56.03
26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	243.79	61.12
26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	243.79	61.12
<b>26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	227.27	50.94
26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	246.56	50.94
26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	273.14	56.03
26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	273.14	56.03
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	292.43	56.03
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	306.49	61.12
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	306.49	61.12
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	262.96	50.94
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	282.25	50.94
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	306.90	56.03
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	326.19	56.03
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	346.04	61.12
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	365.33	61.12
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	296.29	56.03
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	341.63	56.03
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	386.55	61.12
<b>26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	66.09	25.47
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	73.53	25.47
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	87.02	25.47
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	113.84	25.47
<b>26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0366 NEMA 1 Enclosure</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	4,887.86 486.31	488.33

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	8,410.48	651.11
For NEMA 4, Add	888.27	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	14,511.30	773.19
For NEMA 4, Add	1,621.23	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	34,851.94	946.13
For NEMA 4, Add	4,121.00	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	55,437.27	1,210.65
For NEMA 4, Add	6,626.88	
<b>26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)</b>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	4,855.45	498.71
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	8,351.29	652.12
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	14,403.27	770.75
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	34,577.34	941.97
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	54,995.68	1,211.16
<b>26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)</b>		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	114.58	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	126.36	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	215.10	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	116.87	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	168.04	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	84.02	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	274.24	
<b>26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)</b>		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,102.36	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,064.73	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	376.42	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	311.90	
<b>26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)</b>		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	1,456.93	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,664.55	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	5,667.76	
<b>26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0365)</b>		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	244.68	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	244.68	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	244.68	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	244.68	
<b>26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)</b>		
<b>26 29 13 13-0401 240-600 Volts, 3-Pole (26 29 13 13-0400)</b>		
<b>26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)</b>		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,572.97	233.99
For Electronic Overloads, Add	209.37	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,899.73	366.25
For Electronic Overloads, Add	220.88	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,688.45	427.29
For Electronic Overloads, Add	349.72	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,123.46	529.02
For Electronic Overloads, Add	582.11	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,605.05	844.40
For Electronic Overloads, Add	1,122.80	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,387.51	1,058.05
For Electronic Overloads, Add	2,520.93	
<b>26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,008.91 292.20	233.99
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,335.67 303.71	366.25
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,112.29 430.25	427.29
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,353.54 625.82	529.02
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	8,924.99 1,373.59	844.40
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	18,887.16 3,185.86	1,058.05
<b>26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....	198.52	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....	466.29	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....	321.82	
<b>26 29 13 13-0420 NEMA 4 With Disconnect Switch (26 29 13 13-0401)</b>		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,892.48 430.25	305.21
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,172.83 441.76	427.29
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,574.86 690.24	467.98
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	7,318.37 1,175.72	569.72
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	11,601.20 1,882.07	844.40
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	25,583.74 4,458.21	1,058.05
<b>26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)</b>		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,328.42 513.08	305.21
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,608.78 524.59	427.29
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,998.70 770.77	467.98
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	7,548.45 1,219.43	569.72
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	12,921.14 2,132.85	844.40
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	24,215.36 4,198.22	1,058.05
<b>26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt .....	198.55	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt .....	466.29	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt .....	321.82	
<b>26 29 13 13-0438 NEMA 12 With Disconnect Switch (26 29 13 13-0401)</b>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	1,628.07 219.84	235.52
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	1,957.85 231.92	368.59
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,780.48 367.21	423.93
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,276.64 611.21	529.84
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	7,900.51 1,178.93	847.87
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	16,050.89 2,646.97	1,059.67
<b>26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)</b>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,148.61 318.75	235.52
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,480.87 331.30	368.59
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,317.99 469.34	423.93
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,652.74 682.67	529.84
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	9,581.69 1,498.36	847.87



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	20,410.30 3,475.26	1,059.67
<b>26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt .....	196.90	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt .....	462.41	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt .....	319.14	
<b>26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)</b>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....	3,801.42	488.33
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....	5,150.33	651.11
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....	5,596.81	895.27
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....	8,317.93	1,220.83
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....	12,535.36	1,709.16
<b>26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt .....	1,180.65	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt .....	1,180.65	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt .....	1,180.65	
<b>26 29 13 13-0466 Combination Starters Reversing (26 29 13 13)</b>		
<b>26 29 13 13-0467 240-600 Volt, 3 Pole (26 29 13 13-0466)</b>		
<b>26 29 13 13-0468 NEMA 1 With Disconnect Switch (26 29 13 13-0467)</b>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	1,941.18	305.21
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	2,248.93	427.29
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	3,284.06	467.98
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	5,011.34	569.72
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	9,823.90	844.40
<b>26 29 13 13-0474 NEMA 1 With Circuit Breaker (26 29 13 13-0467)</b>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	2,171.20	305.21
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	2,494.46	427.29
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	3,571.49	467.98
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	4,615.63	569.72
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	10,601.37	844.40
<b>26 29 13 13-0480 NEMA 12 With Disconnect Switch (26 29 13 13-0467)</b>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	2,074.94	314.05
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	2,391.64	423.93
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	3,522.61	471.04
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	5,406.64	565.24
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase .....	10,651.82	847.87
<b>26 29 13 13-0486 NEMA 12 With Circuit Breaker (26 29 13 13-0467)</b>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	2,328.38	314.05
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	2,662.19	423.93
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	3,839.32	471.04
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	4,970.62	565.24
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	11,508.47	847.87
<b>26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)</b>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	4,607.83	651.11
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	4,946.41	813.88
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	7,116.53	1,058.05
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	11,334.60	1,383.60
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase .....	20,716.02	1,871.93
<b>26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)</b>		
<b>26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)</b>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking .....	1,544.95	183.12
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking .....	1,866.81	183.12
<b>26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)</b>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect .....	726.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 29 13 13-0504</b> Auxiliary Devices <sup>(26 29 13 13)</sup>		
26 29 13 13-0505 EA Auxiliary Contact, Normally Open .....	454.06	101.74
26 29 13 13-0506 EA Auxiliary Contact, Normally Closed .....	454.06	101.74
26 29 13 13-0507 EA Pilot Light Kit .....	479.35	101.74
 <b>26 29 23 Variable-Frequency Motor Controllers</b> <sup>(26 29)</sup>		
<b>26 29 23 00-0001</b> 208/230 Volt Variable Frequency Drives <sup>(26 29 23)</sup>		
Note: 1 or 3 phase. Wall mounted. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive .....	1,262.90	205.31
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive .....	1,403.65	205.31
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive .....	1,614.37	205.31
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive .....	1,752.65	205.31
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive .....	1,841.54	205.31
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive .....	1,908.36	205.31
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive .....	2,127.55	308.56
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive .....	2,586.55	308.56
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive .....	3,126.08	410.49
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive .....	3,612.81	410.49
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive .....	4,496.97	513.76
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive .....	5,566.53	513.76
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive .....	6,757.18	603.24
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive .....	7,612.21	721.24
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive .....	8,657.59	771.13
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive .....	10,048.59	721.24
 <b>26 29 23 00-0018</b> 460/480 Volt Variable Frequency Drives <sup>(26 29 23)</sup>		
Note: 3 Phase. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive .....	1,660.83	180.24
Note: Wall mounted.		
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive .....	1,786.40	205.31
Note: Wall mounted.		
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive .....	1,919.31	308.56
Note: Wall mounted.		
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive .....	2,140.35	308.57
Note: Wall mounted.		
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive .....	2,689.01	410.49
Note: Wall mounted.		
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive .....	3,138.19	410.51
Note: Wall mounted.		
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive .....	3,938.90	513.78
Note: Wall mounted.		
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive .....	4,484.98	513.76
Note: Wall mounted.		
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive .....	5,350.50	603.24
Note: Wall mounted.		
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive .....	6,330.65	721.24
Note: Wall mounted.		
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive .....	7,320.87	771.13
Note: Wall mounted.		
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive .....	8,260.87	821.04
Note: Wall mounted.		
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive .....	9,817.84	870.69
Note: Wall mounted.		
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive .....	11,588.28	919.60
Note: Wall mounted.		
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive .....	13,318.50	1,027.47
Note: Floor mounted.		
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive .....	17,779.75	1,126.50
Note: Floor mounted.		
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive .....	22,769.48	1,226.10
Note: Floor mounted.		
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive .....	26,807.77	1,436.86
Note: Floor mounted.		
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive .....	31,112.98	1,627.61
Note: Floor mounted.		
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive .....	36,391.42	1,839.20
Note: Floor mounted.		
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive .....	39,321.71	2,066.48
Note: Floor mounted.		

## 26 30 Facility Electrical Power Generating And Storing Equipment

### 26 31 Photovoltaic Collectors <sup>(26 30)</sup>

#### 26 31 00 00-0001 Photovoltaic Collectors <sup>(26 31)</sup>

Note: All materials are to be installed per manufacturers specifications and must be in compliance with the California Energy Commission Guidelines (CEC-300-2011-005-CMF). See CSI section 26 28 13 00-0078 for fuses.

**26 Electrical****26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 31 00 00-0002 Rigid Photovoltaic Modules</b> <small>(26 31)</small>		
<b>26 31 00 00-0003 Sanyo Rigid Photovoltaic Modules</b> <small>(26 31 00 00-0002)</small>		
26 31 00 00-0004 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,316.61	96.65
<i>For &gt;50, Deduct</i>	-112.33	
26 31 00 00-0005 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,377.51	96.65
<i>For &gt;50, Deduct</i>	-118.42	
26 31 00 00-0006 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,292.73	96.65
<i>For &gt;50, Deduct</i>	-109.94	
<b>26 31 00 00-0007 Sharp Rigid Photovoltaic Modules</b> <small>(26 31 00 00-0002)</small>		
26 31 00 00-0008 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,042.43	96.65
<i>For &gt;50, Deduct</i>	-84.91	
26 31 00 00-0009 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,178.34	96.65
<i>For &gt;50, Deduct</i>	-98.51	
26 31 00 00-0010 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,199.87	96.65
<i>For &gt;50, Deduct</i>	-100.66	
26 31 00 00-0011 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,132.59	96.65
<i>For &gt;50, Deduct</i>	-93.93	
<b>26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules</b> <small>(26 31 00 00-0002)</small>		
Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0013 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	541.76	96.65
<i>For &gt;50, Deduct</i>	-34.85	
26 31 00 00-0014 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	656.14	96.65
<i>For &gt;50, Deduct</i>	-46.29	
26 31 00 00-0015 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	701.90	96.65
<i>For &gt;50, Deduct</i>	-50.86	
<b>26 31 00 00-0016 Photovoltaic Inverters</b> <small>(26 31)</small>		
<b>26 31 00 00-0017 Fronius Photovoltaic Inverters</b> <small>(26 31 00 00-0016)</small>		
26 31 00 00-0018 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	3,064.55	101.74
26 31 00 00-0019 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	4,023.97	101.74
26 31 00 00-0020 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	4,244.40	101.74
26 31 00 00-0021 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	4,738.94	101.74
26 31 00 00-0022 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	7,470.54	101.74
26 31 00 00-0023 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	8,674.65	101.74
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	7,132.54	203.47
26 31 00 00-0025 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	8,996.48	203.47
26 31 00 00-0026 EA Inverter Display Stand (Fronius 4,045,894).....	292.43	50.86
<b>26 31 00 00-0027 SMA Photovoltaic Inverters</b> <small>(26 31 00 00-0016)</small>		
26 31 00 00-0028 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	2,293.31	101.74
26 31 00 00-0029 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	2,741.26	101.74
26 31 00 00-0030 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	3,158.71	101.74
26 31 00 00-0031 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	3,477.40	101.74
26 31 00 00-0032 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	3,370.05	101.74
<b>26 31 00 00-0033 PVPowered Photovoltaic Inverters</b> <small>(26 31 00 00-0016)</small>		
26 31 00 00-0034 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	2,821.03	101.74
26 31 00 00-0035 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	2,947.77	101.74
26 31 00 00-0036 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	3,250.86	101.74
26 31 00 00-0037 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	3,858.29	127.17
26 31 00 00-0038 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	4,702.70	152.60
26 31 00 00-0039 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	4,741.28	152.60
26 31 00 00-0040 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	4,998.07	152.60
26 31 00 00-0041 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	59,018.63	813.88
26 31 00 00-0042 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	59,096.13	813.88
26 31 00 00-0043 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	63,909.61	813.88
26 31 00 00-0044 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	59,281.09	813.88
<b>26 31 00 00-0045 Solectria Photovoltaic Inverters</b> <small>(26 31 00 00-0016)</small>		
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI).....	9,332.85	203.47
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI).....	9,332.85	203.47
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI).....	9,602.42	203.47
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI).....	9,602.42	203.47
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	29,226.62	610.41
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	27,878.75	610.41
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	31,922.37	610.41
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	31,173.55	610.41
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI).....	33,869.29	610.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI) .....	32,371.66	610.41
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI) .....	35,773.87	813.88
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI) .....	34,126.47	813.88
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI) .....	37,121.74	813.88
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI) .....	35,174.82	813.88
<b>26 31 00 00-0060 Xantrex Photovoltaic Inverters (26 31 00 00-0016)</b>		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206) .....	399.73	25.44
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210) .....	434.38	25.44
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220) .....	689.04	25.44
<b>26 31 00 00-0064 Photovoltaic DC-DC Converters (26 31)</b>		
26 31 00 00-0065 EA 15 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)..... Note: Hazardous locations.	248.55	38.15
26 31 00 00-0066 EA 20 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	173.19	38.15
26 31 00 00-0067 EA 60 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	442.33	38.15
<b>26 31 00 00-0068 Photovoltaic Combiner Boxes (26 31)</b>		
<b>26 31 00 00-0069 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0068)</b>		
26 31 00 00-0070 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3) .....	330.54	101.74
26 31 00 00-0071 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6) .....	323.56	101.74
26 31 00 00-0072 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12) .....	509.41	152.60
26 31 00 00-0073 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250) .....	511.86	152.60
26 31 00 00-0074 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16) .....	738.23	152.60
<b>26 31 00 00-0075 SMA Photovoltaic Combiner Boxes (26 31 00 00-0068)</b>		
26 31 00 00-0076 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	659.92	101.74
26 31 00 00-0077 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12).....	778.85	101.74
26 31 00 00-0078 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28).....	1,512.25	203.47
26 31 00 00-0079 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52).....	3,322.99	203.47
26 31 00 00-0080 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch).....	595.56	101.74
<b>26 31 00 00-0081 Photovoltaic Charge Controller (26 31)</b>		
26 31 00 00-0082 EA 35 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	202.80	38.15
26 31 00 00-0083 EA 40 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	263.35	38.15
26 31 00 00-0084 EA 60 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	303.72	38.15
26 31 00 00-0085 EA Remote Digital Meter For Xantrex C-35, 40 And 60.....	237.78	38.15
26 31 00 00-0086 EA MPPT Charge Controller (Xantrex XW SCC).....	777.21	50.86
<b>26 31 00 00-0087 Photovoltaic Batteries (26 31)</b>		
<b>26 31 00 00-0088 Concorde Photovoltaic Batteries (26 31 00 00-0087)</b>		
26 31 00 00-0089 EA 34 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T) .....	175.76	15.26
26 31 00 00-0090 EA 45 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T) .....	222.23	20.35
26 31 00 00-0091 EA 49 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T) .....	239.79	20.35
26 31 00 00-0092 EA 56 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T) .....	278.89	30.52
26 31 00 00-0093 EA 69 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T) .....	315.20	30.52
26 31 00 00-0094 EA 89 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T) .....	373.79	35.60
26 31 00 00-0095 EA 104 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T) .....	428.51	40.69
26 31 00 00-0096 EA 108 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T) .....	423.90	40.69
26 31 00 00-0097 EA 210 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T) .....	762.31	48.33
26 31 00 00-0098 EA 255 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T) .....	878.75	50.86
<b>26 31 00 00-0099 Deka Photovoltaic Batteries (26 31 00 00-0087)</b>		
26 31 00 00-0100 EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1) .....	189.55	25.47
26 31 00 00-0101 EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF).....	255.49	25.47
26 31 00 00-0102 EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24).....	369.87	25.47
26 31 00 00-0103 EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	421.01	25.47
26 31 00 00-0104 EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	422.35	25.47
26 31 00 00-0105 EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D) .....	804.53	25.47
26 31 00 00-0106 EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D) .....	928.34	25.47
<b>26 31 00 00-0107 Battery Enclosures (26 31 00 00-0087)</b>		
26 31 00 00-0108 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010) .....	212.34	25.44
26 31 00 00-0109 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	983.51	25.47
26 31 00 00-0110 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	925.64	25.47
26 31 00 00-0111 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	1,228.43	25.47
26 31 00 00-0112 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1) .....	555.58	25.47



**26 Electrical****26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0113 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP) .....	1,286.29	25.47
<b>26 31 00 00-0114 Photovoltaic System Monitoring (26 31)</b>		
26 31 00 00-0115 EA Solar Inverter Monitor (Xantrex 864-0203) .....	446.51	50.86
26 31 00 00-0116 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox) .....	877.46	25.44
26 31 00 00-0117 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox) .....	735.52	25.44
26 31 00 00-0118 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA) .....	147.51	25.44
26 31 00 00-0119 EA Wind Sensor Accessory For Sunny SensorBox (SMA) .....	357.80	50.86
26 31 00 00-0120 EA Sunny Boy Control with RS485 (SMA) .....	863.33	25.44
26 31 00 00-0121 EA RS 485 Module (SMA) .....	207.49	25.44
26 31 00 00-0122 EA RS 232 Module (SMA) .....	212.34	25.44
26 31 00 00-0123 EA Wireless Monitor with Bluetooth (SMA Sunny Beam) .....	400.09	
26 31 00 00-0124 EA Bluetooth Piggy-Back Computer Card (SMA) .....	214.96	25.44
26 31 00 00-0125 EA RS485-N Communication Computer Card (SMA) .....	213.61	25.44
26 31 00 00-0126 EA Bluetooth Repeater (SMA) .....	390.60	25.44
26 31 00 00-0127 EA Sunny Boy PC Service Cable (SMA) .....	183.05	7.63
26 31 00 00-0128 EA Integrated Revenue Grade Meter, Option (PVPowered) .....	3,451.72	
26 31 00 00-0129 EA Data Monitoring Module (PVPowered PVM1010) .....	389.81	25.44
26 31 00 00-0130 EA Wireless IG Personal Display (Fronius 4,240,108) .....	406.00	
26 31 00 00-0131 EA DatCom Power Supply (Fronius 43,0001,2311) .....	130.26	
26 31 00 00-0132 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z) .....	237.88	25.44
26 31 00 00-0133 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z) .....	203.43	25.44
26 31 00 00-0134 EA Datalogger Pro Box (Fronius 4,240,102) .....	757.73	25.44
26 31 00 00-0135 EA Datalogger Easy Box (Fronius 4,240,103) .....	497.82	25.44
26 31 00 00-0136 EA Datalogger Interface Box (Fronius 4,240,105) .....	853.65	25.44
26 31 00 00-0137 EA Datalogger Web (Fronius 4,240,122) .....	1,456.78	25.44
26 31 00 00-0138 EA Interface Box (Fronius 4,240,109) .....	401.69	25.44
26 31 00 00-0139 EA Interface Card (Fronius 4,240,009,Z) .....	290.64	25.44
26 31 00 00-0140 EA Interface Card Easy (Fronius 4,240,013,Z) .....	196.44	25.44
26 31 00 00-0141 EA Sensor Box (Fronius 4,240,104) .....	790.76	25.44
26 31 00 00-0142 EA Ambient Temperature Sensor (Fronius 43,0001,1188) .....	100.19	25.44
26 31 00 00-0143 EA Irradiance Sensor (Fronius 43,0001,1188) .....	283.80	25.44
26 31 00 00-0144 EA Module Temperature Sensor (Fronius 43,0001,1190) .....	314.48	25.44
26 31 00 00-0145 EA Wind Speed Sensor (Fronius 42,0411,0027) .....	187.10	50.86
<b>26 31 00 00-0146 Photovoltaic System Accessories (26 31)</b>		
26 31 00 00-0147 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q) .....	601.30	50.86
26 31 00 00-0148 EA Line Communication Filter (Enphase LCF) .....	1,305.60	101.74
26 31 00 00-0149 EA 15 Meter RS 485 Communication Cable (SMA) .....	100.04	7.63
26 31 00 00-0150 EA 15 Meter RS 232 Communication Cable (SMA) .....	148.48	7.63
26 31 00 00-0151 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	24.16	2.51
26 31 00 00-0152 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	25.79	2.51
26 31 00 00-0153 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	26.71	2.51
26 31 00 00-0154 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	29.25	2.51
26 31 00 00-0155 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	33.06	2.51
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	53.41	5.04
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	65.25	5.04
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect .....	86.47	7.55
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	29.88	2.51
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	40.69	2.51
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	61.04	5.04
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	80.12	5.04
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	131.62	10.07
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect .....	137.00	10.07
26 31 00 00-0165 EA Lighting Kit, 9W Fluorescent, 12 V 4.5 Amp Hour Battery .....	2,443.65	274.68
Note: Tamper proof enclosure.		
<b>26 31 00 00-0166 Photovoltaic Mounting Systems (26 31)</b>		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard) .....	9.27	2.54
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229) .....	29.66	12.71
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216) .....	35.65	12.71
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046) .....	17.90	5.09
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006) .....	9.30	3.82
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012) .....	18.18	5.09
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002) .....	5.06	1.70
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008) .....	5.26	1.70
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065) .....	13.53	5.09
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121) .....	77.80	25.44
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	84.58	25.44
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	90.05	25.44
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	114.73	38.15
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	135.08	38.15
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	153.54	38.15
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	174.08	50.86
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	222.69	50.86
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....	315.75	76.30
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351).....	154.67	
Note: Excludes ballast.		
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....	283.92	
Note: Excludes ballast.		
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	64.25	25.44
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	64.88	25.44
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	65.45	25.44
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	66.87	25.44
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	60.47	25.44
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	61.19	25.44
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	63.29	25.44
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	62.70	25.44
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	117.37	38.15
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	117.80	38.15
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....	119.09	38.15
26 31 00 00-0198 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	117.75	38.15
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	22.02	5.09
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....	15.47	5.09
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	28.22	7.63
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	29.20	7.63
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....	7.91	1.70
Note: Mid or end clamp.		
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....	34.61	5.09
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	2.11	

## 26 32 Packaged Generator Assemblies (26 30)

### 26 32 13 Engine Generators (26 32)

#### 26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0736 for fuel reimbursement for commissioning.

#### 26 32 13 13-0001 Diesel Generator Sets (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0715 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	32,736.01	867.21
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	34,649.31	1,067.76
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....	35,699.71	1,170.73
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	

**26 Electrical**

**26 30 Facility Electrical Power Generating And Storing Equipment**

**26 32 Packaged Generator Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC) .....	41,944.62	1,344.17
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD) .....	45,206.25	1,544.71
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE) .....	53,145.92	1,810.30
For Weather Resistant Steel Diesel Generator Enclosure, Add	2,855.12	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,269.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,544.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,059.83	
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA) .....	57,127.98	2,102.98
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB) .....	58,352.00	2,493.23
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC) .....	64,511.72	2,747.96
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB) .....	67,804.83	3,067.75
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC) .....	72,104.89	3,360.44
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD) .....	77,836.25	3,550.13
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,330.60	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	9,327.05	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	11,213.04	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,950.72	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA) .....	81,168.55	3,696.48
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA) .....	88,416.68	3,897.02
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB) .....	90,296.57	4,070.46
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG) .....	101,956.64	4,552.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEG) .....	109,825.85	4,986.45
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEG) .....	124,213.47	5,371.28
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEG) .....	130,700.74	5,723.57
For Weather Resistant Steel Diesel Generator Enclosure, Add	28,085.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	31,098.29	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	41,464.39	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	34,062.94	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	38,013.68	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,684.90	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA) .....	190,861.16	6,303.53
For Weather Resistant Steel Diesel Generator Enclosure, Add	57,372.58	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	69,090.00	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	92,120.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	67,481.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	80,488.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	107,318.41	
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB) .....	218,696.37	6,932.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	57,372.58	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	69,090.00	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	92,120.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	67,481.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	80,488.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	107,318.41	
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC) .....	228,433.98	7,084.01
For Weather Resistant Steel Diesel Generator Enclosure, Add	57,372.58	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	69,090.00	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	92,120.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	67,481.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	80,488.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	107,318.41	
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC) .....	279,032.79	7,636.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	57,372.58	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	69,090.00	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	92,120.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	67,481.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	80,488.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	107,318.41	
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD) .....	311,649.70	8,130.08
For Weather Resistant Steel Diesel Generator Enclosure, Add	57,372.58	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	69,090.00	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	92,120.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	67,481.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	80,488.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	107,318.41	

**26 32 13 19 Natural Gas-Engine-Driven Generator Sets** (26 32 13)

26 32 13 19-0001	Natural Gas Or Propane Generator Sets (26 32 13 19)		
	Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0715 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002	EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA) .....	13,839.39	726.29
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	2,812.50	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,666.20	
26 32 13 19-0003	EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB) .....	15,637.96	867.21
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	2,812.50	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,666.20	

**26 Electrical**

**26 30 Facility Electrical Power Generating And Storing Equipment**

**26 32 Packaged Generator Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	18,082.18	964.77
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	2,812.50	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,666.20	
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA) .....	20,538.87	1,067.76
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	7,955.43	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB) .....	23,075.13	1,170.73
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	7,955.43	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC) .....	25,021.35	1,262.87
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	7,955.43	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE) .....	27,346.96	1,544.71
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	7,955.43	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF) .....	29,336.17	1,729.00
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	2,596.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	6,718.64	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	8,958.18	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	7,955.43	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	38,655.51	1,848.24
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,732.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	9,327.05	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	46,643.55	2,081.30
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,732.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	9,327.05	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA).....	53,379.52	2,493.23
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,732.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	9,327.05	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	63,630.11	2,747.96
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,732.77	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,272.21	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	13,696.29	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	9,327.05	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,352.71	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA) .....	103,214.33	7,309.38
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	25,256.56	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	27,958.20	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	37,277.60	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	27,614.96	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	41,439.08	
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB) .....	117,241.57	3,300.81
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	25,256.56	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	27,958.20	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	37,277.60	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	27,614.96	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	41,439.08	
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC) .....	126,049.55	3,696.48
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	25,256.56	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	27,958.20	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	37,277.60	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	27,614.96	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	41,439.08	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA) .....	163,244.67	4,070.46
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	25,256.56	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	27,958.20	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	37,277.60	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	27,614.96	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	41,439.08	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	175,189.64 25,256.56 27,958.20 37,277.60 27,614.96 41,439.08	4,552.84
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	246,455.83 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	5,371.28
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	315,450.73 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	5,723.57
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	353,105.44 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	6,032.52
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	402,379.54 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	6,303.53
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	420,753.80 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	6,542.01
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	445,033.84 55,148.68 58,595.06 78,126.75 62,639.36 88,531.13	6,991.87
<b>26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets</b> <small>(26 32 13 19)</small>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	4,668.50	467.58
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,910.73	519.53
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,778.59	547.48
<b>26 32 29 Rotary Converters</b> <small>(26 32)</small>		
<b>26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volts, 125 Volt DC Output</b> <small>(26 32 29)</small>		
26 32 29 00-0002 EA 3 KW, 24 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	5,762.36	203.47
26 32 29 00-0003 EA 5 KW, 40 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	6,994.24	203.47
26 32 29 00-0004 EA 7.5 KW, 60 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	9,228.65	203.47
26 32 29 00-0005 EA 10 KW, 80 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	9,300.36	203.47
26 32 29 00-0006 EA 15 KW, 120 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	10,339.77	254.33
26 32 29 00-0007 EA 20 KW, 160 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	11,186.18	254.33
26 32 29 00-0008 EA 25 KW, 200 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	11,706.68	254.33
26 32 29 00-0009 EA 40 KW, 320 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	14,271.99	335.72
26 32 29 00-0010 EA 50 KW, 400 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	15,841.17	335.72
<b>26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volts, 250 Volts DC Output</b> <small>(26 32 29)</small>		
26 32 29 00-0012 EA 3 KW, 12 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	6,654.18	203.47
26 32 29 00-0013 EA 5 KW, 20 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	7,913.08	203.47
26 32 29 00-0014 EA 7.5 KW, 30 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	9,034.61	203.47
26 32 29 00-0015 EA 10 KW, 40 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	9,282.16	203.47
26 32 29 00-0016 EA 15 KW, 60 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	10,527.05	254.33
26 32 29 00-0017 EA 20 KW, 80 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	11,563.18	254.33
26 32 29 00-0018 EA 25 KW, 100 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	11,940.18	254.33
26 32 29 00-0019 EA 40 KW, 160 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	14,216.05	335.72
26 32 29 00-0020 EA 50 KW, 200 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	15,069.77	335.72
<b>26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC</b> <small>(26 32 29)</small>		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	18,358.18	3,794.03
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	20,522.17	3,794.03
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	23,424.86	5,420.06
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	27,136.38	5,420.06



**26 Electrical**  
**26 30 Facility Electrical Power Generating And Storing Equipment**  
**26 32 Packaged Generator Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion.....	30,638.14	5,420.06
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion.....	36,222.13	8,130.08
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion.....	44,195.99	8,130.08
<b>26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)</b>		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	62,884.68	10,840.11
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	68,592.58	10,840.11
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	82,425.10	14,092.14
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	93,824.46	17,127.37
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	110,802.15	17,127.37
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	156,713.74	25,582.66
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	162,795.38	25,582.66
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion.....	186,999.62	29,810.30
<b>26 33 Battery Equipment (26 30)</b>		
<b>26 33 13 Batteries (26 33)</b>		
<b>26 33 13 00-0001 Standby Batteries (26 33 13)</b>		
26 33 13 00-0002 EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery .....	705.96	25.47
26 33 13 00-0003 EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket .....	761.47	25.47
26 33 13 00-0004 EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery .....	290.87	25.47
26 33 13 00-0005 EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery .....	264.48	25.47
26 33 13 00-0006 EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery .....	452.64	25.47
26 33 13 00-0007 EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery .....	525.56	25.47
<b>26 33 43 Battery Chargers (26 33)</b>		
<b>26 33 43 00-0001 Solid State Chargers, Single Phase (26 33 43)</b>		
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002 EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	2,280.65	580.78
26 33 43 00-0003 EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	2,635.85	580.78
26 33 43 00-0004 EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	2,897.10	580.78
26 33 43 00-0005 EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	3,078.54	687.64
<b>26 33 53 Static Uninterruptible Power Supply (26 33)</b>		
<b>26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)</b>		
<b>26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)</b>		
<b>26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b>		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004 EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	921.36	100.71
Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005 EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,099.91	117.50
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006 EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,353.31	134.29
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007 EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	1,650.19	151.08
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008 EA 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,111.54	167.87
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009 EA 3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	3,486.60	235.01
Note: Includes 4 minutes of battery backup at full load.		
<b>26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b>		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA 3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....	3,425.13	235.01
Note: Includes 4 minutes of battery backup at full load.		
<b>26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b>		
Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....	5,116.96	268.58
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....	5,597.73	302.15
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....	8,351.20	369.30
Note: Includes 7 minutes of battery backup at full load.		
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....	9,594.82	402.87
Note: Includes 4-1/2 minutes of battery backup at full load.		
<b>26 33 53 00-0017</b>	<b>230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small></b>	
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,099.91	117.50
Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,353.31	134.29
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,668.35	151.08
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	2,115.92	167.87
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,500.24	235.01
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	4,911.70	268.58
Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	6,024.48	302.15
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	9,301.39	402.87
Note: Includes 3 minutes of battery backup at full load.		
<b>26 33 53 00-0026</b>	<b>Optional Accessories For Single Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0001)</small></b>	
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	600.37	30.52
Note: Rack mount or tower configuration.		
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	785.00	30.52
Note: Rack mount or tower configuration.		
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	764.45	30.52
Note: Rack mount or tower configuration.		
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	520.83	30.52
Note: Rack mount or tower configuration.		
26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	786.31	100.71
26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	888.04	134.29
<b>26 33 53 00-0033</b>	<b>Three Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small></b>	
<b>26 33 53 00-0034</b>	<b>208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (Emerson) <small>(26 33 53 00-0033)</small></b>	
Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	24,394.48	402.87
26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	27,096.39	537.16
26 33 53 00-0037 EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	30,358.06	671.45
26 33 53 00-0038 EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	33,004.00	805.75
26 33 53 00-0039 EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	39,680.14	940.03

**26 Electrical**

**26 30 Facility Electrical Power Generating And Storing Equipment**

**26 33 Battery Equipment**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 33 53 00-0040</b>		<b>208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) <sup>(26 33 53 00-0033)</sup></b>		
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.				
26 33 53 00-0041	EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	54,059.99	1,602.33
26 33 53 00-0042	EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	59,142.99	1,983.84
26 33 53 00-0043	EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	65,533.94	2,314.48
26 33 53 00-0044	EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	80,540.13	2,619.69
26 33 53 00-0045	EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	83,852.47	2,924.89
26 33 53 00-0046	EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	87,088.80	3,230.10
26 33 53 00-0047	EA	180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	90,996.84	3,535.31
26 33 53 00-0048	EA	200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	94,904.88	3,840.51

<b>26 33 53 00-0049</b>		<b>480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) <sup>(26 33 53 00-0033)</sup></b>		
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.				
26 33 53 00-0050	EA	50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	50,391.28	1,322.56
26 33 53 00-0051	EA	100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	65,869.79	2,324.65
26 33 53 00-0052	EA	150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	89,526.48	2,685.82
26 33 53 00-0053	EA	200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	105,148.41	2,950.33
26 33 53 00-0054	EA	250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	122,673.48	3,255.54

<b>26 33 53 00-0055</b>		<b>Optional Accessories For Three Phase, Uninterruptible Power Supply Systems <sup>(26 33 53 00-0033)</sup></b>		
26 33 53 00-0056	EA	Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	539.03	50.86
26 33 53 00-0057	EA	Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	862.97	50.86
26 33 53 00-0058	EA	Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,672.32	101.74
26 33 53 00-0059	EA	Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	5,231.39	406.94
26 33 53 00-0060	EA	12 Volt, 491 Watts, 3 Phase, 134 Amp Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	372.80	50.86
26 33 53 00-0061	EA	12 Volt, 204 Watts, 3 Phase, 55 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	206.91	50.86
26 33 53 00-0062	EA	12 Volt, 257 Watts, 3 Phase, 65 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	231.12	50.86
26 33 53 00-0063	EA	12 Volt, 311 Watts, 3 Phase, 75 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	255.32	50.86
26 33 53 00-0064	EA	12 Volt, 374 Watts, 3 Phase, 90 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	298.90	50.86
26 33 53 00-0065	EA	12 Volt, 415 Watts, 3 Phase, 100 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	313.42	50.86
26 33 53 00-0066	EA	12 Volt, 493 Watts, 3 Phase, 135 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	388.46	50.86
26 33 53 00-0067	EA	12 Volt, 540 Watts, 3 Phase, 150 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	406.61	50.86

<b>26 33 53 00-0068</b>		<b>Other Uninterruptable Power Supply Equipment <sup>(26 33 53)</sup></b>		
26 33 53 00-0069	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	3,632.48	92.92
26 33 53 00-0070	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	4,412.57	185.85
26 33 53 00-0071	EA	1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	21.85	5.57
26 33 53 00-0072	EA	2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	37.71	6.96
26 33 53 00-0073	EA	2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	67.42	6.96
26 33 53 00-0074	EA	3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	98.22	9.29
26 33 53 00-0075	EA	3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	137.44	9.29
26 33 53 00-0076	EA	Uninterrupted Power Supply Remote Status Panel.....	2,503.41	92.92
26 33 53 00-0077	EA	Uninterrupted Power Supply Remote Contact Board.....	852.46	69.70

**26 35 Power Filters And Conditioners <sup>(26 30)</sup>**

**26 35 33 Power Factor Correction Equipment <sup>(26 35)</sup>**

**26 35 33 16 Low-Voltage Power Factor Correction Equipment <sup>(26 35 33)</sup>**

<b>26 35 33 16-0001</b>		<b>Power Factor Correction Capacitors <sup>(26 35 33 16)</sup></b>		
26 35 33 16-0002	EA	Power Factor Correction Capacitors, 2.0 KVAC.....	579.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 33 16-0003 EA Power Factor Correction Capacitors, 3.0 KVAC .....	642.27	
26 35 33 16-0004 EA Power Factor Correction Capacitors, 4.0 KVAC .....	704.62	
26 35 33 16-0005 EA Power Factor Correction Capacitors, 5.0 KVAC .....	764.48	
26 35 33 16-0006 EA Power Factor Correction Capacitors, 7.5 KVAC .....	939.08	
26 35 33 16-0007 EA Power Factor Correction Capacitors, 10.0 KVAC .....	1,147.35	
26 35 33 16-0008 EA Power Factor Correction Capacitors, 15.0 KVAC .....	1,772.16	
26 35 33 16-0009 EA Power Factor Correction Capacitors, 20.0 KVAC .....	2,152.53	
26 35 33 16-0010 EA Power Factor Correction Capacitors, 25.0 KVAC .....	2,781.07	
26 35 33 16-0011 EA Power Factor Correction Capacitors, 30.0 KVAC .....	3,162.69	
26 35 33 16-0012 EA Power Factor Correction Capacitors, 50.0 KVAC .....	5,549.68	
26 35 33 16-0013 EA Power Factor Correction Capacitors, 75.0 KVAC .....	8,344.47	
26 35 33 16-0014 EA Power Factor Correction Capacitors, 100.0 KVAC .....	11,126.79	
26 35 33 16-0015 EA Power Factor Correction Capacitors, Fuse Kit .....	516.31	
<b>26 35 43 Static-Frequency Converters (26 35)</b>		
<b>26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)</b>		
26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure .....	470.99	101.74
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	798.55	122.08
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	918.58	162.78
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	1,254.28	203.47
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	1,718.14	264.51
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	2,210.50	325.55
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	2,759.81	386.59
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	3,345.74	437.46
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	3,899.13	529.02
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	4,458.61	595.16
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	5,018.10	661.28
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	6,218.44	798.63
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	8,039.31	961.40
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	10,165.34	1,169.95
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	11,644.43	1,368.34
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	14,864.98	1,526.03
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	22,392.44	1,729.50
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure .....	33,052.90	1,932.97
<b>26 35 53 Voltage Regulators (26 35)</b>		
<b>26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)</b>		
Note: For diesel motor generator sets mounted in switchgear cabinet.		
26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear .....	5,169.96	1,617.59
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear .....	6,011.74	2,034.71
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear .....	6,786.86	2,421.30
<b>26 36 Transfer Switches (26 30)</b>		
<b>26 36 13 Manual Transfer Switches (26 36)</b>		
<b>26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)</b>		
26 36 13 00-0002 EA 30 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt .....	954.10	178.03
26 36 13 00-0003 EA 60 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt .....	1,118.79	221.17
<b>26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 13)</b>		
26 36 13 00-0005 EA 40 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40) .....	2,889.53	259.77
For NEMA 3R Enclosure, Add 932.65		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0006 EA 70 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70) .....	3,198.64	311.72
For NEMA 3R Enclosure, Add 932.65		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0007 EA 125 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125) .....	3,629.48	363.67
For NEMA 3R Enclosure, Add 932.65		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0008 EA 150 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150) .....	4,510.68	415.62
For NEMA 3R Enclosure, Add 1,097.24		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0009 EA 225 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225) .....	5,588.63	467.58
For NEMA 3R Enclosure, Add 1,097.24		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0010 EA 260 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260) .....	6,284.02	519.53
For NEMA 3R Enclosure, Add 1,097.24		
For NEMA 12 Enclosure, Add 877.78		
26 36 13 00-0011 EA 300 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300) .....	6,990.49	571.48
For NEMA 3R Enclosure, Add 1,294.74		
For NEMA 12 Enclosure, Add 1,097.24		
26 36 13 00-0012 EA 400 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400) .....	8,213.01	623.43
For NEMA 3R Enclosure, Add 1,294.74		
For NEMA 12 Enclosure, Add 1,097.24		



**26 Electrical**

**26 30 Facility Electrical Power Generating And Storing Equipment**

**26 36 Transfer Switches**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 13 00-0013	EA		600 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	10,867.55	779.30
			<i>For NEMA 3R Enclosure, Add</i>	1,294.74	
			<i>For NEMA 12 Enclosure, Add</i>	1,097.24	
26 36 13 00-0014	EA		800 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	12,219.41	935.15
			<i>For NEMA 3R Enclosure, Add</i>	1,590.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,536.13	
26 36 13 00-0015	EA		1,000 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	16,249.23	1,300.81
			<i>For NEMA 3R Enclosure, Add</i>	1,590.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,536.13	
<b>26 36 23 Automatic Transfer Switches (26 36)</b>					
26 36 23 00-0001			Automatic Transfer Switch (26 36 23)		
26 36 23 00-0002			Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
			Note: Programmable, 120/240 volt single phase, 3 wire.		
26 36 23 00-0003	EA		100 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire .....	2,594.81	363.67
26 36 23 00-0004	EA		225 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire .....	3,533.37	467.58
26 36 23 00-0005	EA		400 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire .....	5,631.38	623.43
26 36 23 00-0006	EA		600 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire .....	12,925.86	779.30
26 36 23 00-0007			Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0008	EA		40 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	4,324.00	259.77
			<i>For NEMA 3R Enclosure, Add</i>	932.65	
			<i>For NEMA 4 Enclosure, Add</i>	987.51	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0009	EA		70 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	4,990.21	311.72
			<i>For NEMA 3R Enclosure, Add</i>	932.65	
			<i>For NEMA 4 Enclosure, Add</i>	987.51	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0010	EA		125 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	5,482.41	363.67
			<i>For NEMA 3R Enclosure, Add</i>	932.65	
			<i>For NEMA 4 Enclosure, Add</i>	987.51	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0011	EA		150 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	6,524.87	415.62
			<i>For NEMA 3R Enclosure, Add</i>	1,097.24	
			<i>For NEMA 4 Enclosure, Add</i>	1,426.40	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0012	EA		225 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	7,451.63	467.58
			<i>For NEMA 3R Enclosure, Add</i>	1,097.24	
			<i>For NEMA 4 Enclosure, Add</i>	1,426.40	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0013	EA		260 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	8,222.47	519.53
			<i>For NEMA 3R Enclosure, Add</i>	1,097.24	
			<i>For NEMA 4 Enclosure, Add</i>	1,426.40	
			<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0014	EA		300 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	8,586.92	571.48
			<i>For NEMA 3R Enclosure, Add</i>	1,294.74	
			<i>For NEMA 4 Enclosure, Add</i>	1,536.13	
			<i>For NEMA 12 Enclosure, Add</i>	1,097.24	
26 36 23 00-0015	EA		400 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	9,714.88	623.43
			<i>For NEMA 3R Enclosure, Add</i>	1,294.74	
			<i>For NEMA 4 Enclosure, Add</i>	1,536.13	
			<i>For NEMA 12 Enclosure, Add</i>	1,097.24	
26 36 23 00-0016	EA		600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	13,326.07	779.30
			<i>For NEMA 3R Enclosure, Add</i>	1,294.74	
			<i>For NEMA 4 Enclosure, Add</i>	1,536.13	
			<i>For NEMA 12 Enclosure, Add</i>	1,097.24	
26 36 23 00-0017	EA		800 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	14,934.45	935.15
			<i>For NEMA 3R Enclosure, Add</i>	1,590.98	
			<i>For NEMA 4 Enclosure, Add</i>	1,755.58	
			<i>For NEMA 12 Enclosure, Add</i>	1,536.13	
26 36 23 00-0018	EA		1,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	19,422.96	1,300.81
			<i>For NEMA 3R Enclosure, Add</i>	1,590.98	
			<i>For NEMA 4 Enclosure, Add</i>	1,755.58	
			<i>For NEMA 12 Enclosure, Add</i>	1,536.13	
26 36 23 00-0019	EA		1,200 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	25,264.85	1,409.21
			<i>For NEMA 3R Enclosure, Add</i>	3,511.15	
			<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
			<i>For NEMA 12 Enclosure, Add</i>	1,645.86	
26 36 23 00-0020	EA		1,600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	26,910.63	1,626.01
			<i>For NEMA 3R Enclosure, Add</i>	5,705.61	
			<i>For NEMA 4 Enclosure, Add</i>	7,022.28	
			<i>For NEMA 12 Enclosure, Add</i>	5,705.61	
26 36 23 00-0021	EA		2,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	30,772.29	1,842.82
			<i>For NEMA 3R Enclosure, Add</i>	5,705.61	
			<i>For NEMA 4 Enclosure, Add</i>	7,022.28	
			<i>For NEMA 12 Enclosure, Add</i>	5,705.61	
26 36 23 00-0022	EA		3,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	37,154.78	2,276.43
			<i>For NEMA 3R Enclosure, Add</i>	5,705.61	
26 36 23 00-0023	EA		4,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	64,742.75	2,710.02
			<i>For NEMA 3R Enclosure, Add</i>	26,816.31	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0024				<b>Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure</b> <small>(26 36 23 00-0001)</small>		
26 36 23 00-0025	EA			150 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	21,387.21	1,974.21
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,042.38	
26 36 23 00-0026	EA			225 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	22,321.52	2,078.11
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,042.38	
26 36 23 00-0027	EA			260 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	23,398.51	2,182.02
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,042.38	
26 36 23 00-0028	EA			300 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	26,166.92	2,233.97
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,042.38	
26 36 23 00-0029	EA			400 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	30,275.59	2,285.93
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,042.38	
26 36 23 00-0030	EA			600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	36,443.34	2,389.83
				<i>For NEMA 3R Enclosure, Add</i>	1,920.16	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,097.24	
26 36 23 00-0031	EA			800 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	40,211.67	2,493.73
				<i>For NEMA 3R Enclosure, Add</i>	1,975.02	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,206.96	
26 36 23 00-0032	EA			1,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	50,583.75	2,909.36
				<i>For NEMA 3R Enclosure, Add</i>	1,975.02	
				<i>For NEMA 4 Enclosure, Add</i>	1,975.02	
				<i>For NEMA 12 Enclosure, Add</i>	1,206.96	
26 36 23 00-0033	EA			1,200 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	66,432.48	3,252.03
				<i>For NEMA 3R Enclosure, Add</i>	8,777.85	
				<i>For NEMA 4 Enclosure, Add</i>	10,972.30	
				<i>For NEMA 12 Enclosure, Add</i>	8,777.85	
26 36 23 00-0034	EA			1,600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	86,877.14	3,468.83
				<i>For NEMA 3R Enclosure, Add</i>	18,652.91	
				<i>For NEMA 4 Enclosure, Add</i>	18,652.91	
				<i>For NEMA 12 Enclosure, Add</i>	17,380.13	
26 36 23 00-0035	EA			2,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	98,684.39	3,794.03
				<i>For NEMA 3R Enclosure, Add</i>	18,652.91	
				<i>For NEMA 4 Enclosure, Add</i>	18,652.91	
				<i>For NEMA 12 Enclosure, Add</i>	17,380.13	
26 36 23 00-0036	EA			3,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	158,292.41	4,336.05
				<i>For NEMA 3R Enclosure, Add</i>	23,041.83	
26 36 23 00-0037	EA			4,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	170,807.00	4,878.05
				<i>For NEMA 3R Enclosure, Add</i>	23,041.83	
26 36 23 00-0038				<b>Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure</b> <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039	EA			40 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	7,092.35	259.77
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0040	EA			70 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	7,663.00	311.72
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0041	EA			125 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	8,232.66	363.67
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0042	EA			150 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	9,891.75	415.62
				<i>For Four Pole Circuit Breaker, Add</i>	2,743.08	
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0043	EA			225 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	12,896.78	467.58
				<i>For Four Pole Circuit Breaker, Add</i>	2,743.08	
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	
26 36 23 00-0044	EA			250 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	13,725.96	519.53
				<i>For Four Pole Circuit Breaker, Add</i>	2,743.08	
				<i>For NEMA 3R Enclosure, Add</i>	548.62	
				<i>For NEMA 12 Enclosure, Add</i>	987.51	

**26 Electrical****26 30 Facility Electrical Power Generating And Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0045 EA 300 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	14,267.47	571.48
For Four Pole Circuit Breaker, Add	3,730.59	
For NEMA 3R Enclosure, Add	1,426.40	
For NEMA 12 Enclosure, Add	1,097.24	
26 36 23 00-0046 EA 400 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	16,150.88	623.43
For Four Pole Circuit Breaker, Add	3,730.59	
For NEMA 3R Enclosure, Add	1,426.40	
For NEMA 12 Enclosure, Add	1,097.24	
26 36 23 00-0047 EA 600 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	19,592.07	779.30
For Four Pole Circuit Breaker, Add	3,730.59	
For NEMA 3R Enclosure, Add	1,426.40	
For NEMA 12 Enclosure, Add	1,097.24	
26 36 23 00-0048 EA 800 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	20,382.61	935.15
For Four Pole Circuit Breaker, Add	5,321.57	
For NEMA 3R Enclosure, Add	2,457.81	
For NEMA 12 Enclosure, Add	1,536.13	
26 36 23 00-0049 EA 1,000 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	24,130.76	1,300.81
For Four Pole Circuit Breaker, Add	5,321.57	
For NEMA 3R Enclosure, Add	2,457.81	
For NEMA 12 Enclosure, Add	1,536.13	
<b>26 36 23 00-0050 Accessories</b> <small>(26 36 23)</small>		
26 36 23 00-0051 EA Auxiliary Contacts For Automatic Transfer Switch.....	254.56	
26 36 23 00-0052 EA Battery Charger For Automatic Transfer Switch.....	2,084.75	
26 36 23 00-0053 EA Elevator Relay Signal For Automatic Transfer Switch.....	757.09	
<b>26 40 Electrical And Cathodic Protection</b> <small>(26)</small>		
<b>26 43 Surge Protective Devices</b> <small>(26 40)</small>		
<b>26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits</b> <small>(26 43)</small>		
<b>26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0002 EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	226.23	25.44
26 43 13 00-0003 EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	244.02	25.44
26 43 13 00-0004 EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	254.20	30.52
26 43 13 00-0005 EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	210.98	20.35
26 43 13 00-0006 EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	254.20	30.52
<b>26 43 13 00-0007 50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0008 EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	313.92	25.44
26 43 13 00-0009 EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	334.26	30.52
26 43 13 00-0010 EA 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	324.08	25.44
26 43 13 00-0011 EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	334.26	30.52
<b>26 43 13 00-0012 100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0013 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	380.00	25.44
26 43 13 00-0014 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	400.34	30.52
26 43 13 00-0015 EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	354.58	20.35
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	400.34	30.52
<b>26 43 13 00-0017 100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert LPM		
26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	448.62	25.44
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	505.82	30.52
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	424.47	20.35
<b>26 43 13 00-0021 160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert LPM		
26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	791.75	30.52
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	781.57	25.44
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	791.75	30.52
<b>26 43 13 00-0025 250 kA, 500 Joule Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>		
Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	4,585.53	50.86
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	5,602.17	50.86



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Electrical And Cathodic Protection</b>	<b>26 40</b>	
<b>Surge Protective Devices</b>	<b>26 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0028 <b>Class 1310 Transient Voltage Surge Suppression</b> <small>(26 43 13)</small> Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029 <b>NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small> Note: Square D. EMA series.		
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,700.32 265.68 203.04	132.25
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,081.08 265.68 203.04	152.60
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,963.80 265.68 203.04	178.03
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,934.87 265.68 203.04	203.47
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	11,742.11 265.68 203.04	279.77
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,861.29 265.68 203.04	132.25
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,257.92 265.68 203.04	152.60
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,237.00 265.68 203.04	178.03
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,289.67 265.68 203.04	203.47
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,289.62 265.68 203.04	279.77
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,861.29 265.68 203.04	132.25
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,257.92 265.68 203.04	152.60
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,236.95 265.68 203.04	178.03
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,289.67 265.68 203.04	203.47
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,289.62 265.68 203.04	279.77
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,022.28 265.68 203.04	132.25
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,437.02 265.68 203.04	152.60
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,512.45 265.68 203.04	178.03
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,646.80 265.68 203.04	203.47
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,839.35 265.68 203.04	279.77
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,209.32 265.68 203.04	132.25
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,622.97 265.68 203.04	152.60
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,800.37 265.68 203.04	178.03
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,020.88 265.68 203.04	203.47
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,636.98 265.68 203.04	279.77

**26 Electrical**  
**26 40 Electrical And Cathodic Protection**  
**26 43 Surge Protective Devices**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0055			<b>NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor</b> <sup>(26</sup>		
			<small>43 13 00-0028)</small> Note: Square D EBA series.		
26 43 13 00-0056	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....2,884.19	2,884.19	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0057	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,484.88	3,484.88	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0058	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....5,109.12	5,109.12	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0059	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....2,976.01	2,976.01	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0060	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,620.90	3,620.90	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0061	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....5,287.08	5,287.08	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0062	EA		120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....2,976.01	2,976.01	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0063	EA		160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,620.90	3,620.90	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0064	EA		240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....5,287.08	5,287.08	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0065	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,092.77	3,092.77	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0066	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,767.14	3,767.14	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0067	EA		240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....5,514.92	5,514.92	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0068	EA		120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,215.20	3,215.20	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0069	EA		160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....3,922.43	3,922.43	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0070	EA		240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....5,754.10	5,754.10	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0071			<b>NEMA 4X Modular Device Transient Voltage Surge Suppressor</b> <sup>(26 43 13 00-0028)</sup>		
			Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....4,771.53	4,771.53	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0073	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....5,152.29	5,152.29	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0074	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....7,035.01	7,035.01	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0075	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....4,932.50	4,932.50	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0076	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....5,329.12	5,329.12	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0077	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....7,308.21	7,308.21	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0078	EA		120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....4,932.50	4,932.50	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0079	EA		160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....5,329.12	5,329.12	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0080	EA		240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....7,308.16	7,308.16	178.03
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0081	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....5,093.49	5,093.49	132.25
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		
26 43 13 00-0082	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....5,508.23	5,508.23	152.60
			<i>For Integral Disconnect, Add</i> 265.68		
			<i>For Surge Counter, Add</i> 203.04		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,583.66 265.68 203.04	178.03
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,280.52 265.68 203.04	132.25
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,694.18 265.68 203.04	152.60
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,871.58 265.68 203.04	178.03
<b>26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small> Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,955.40 265.68 203.04	132.25
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,556.09 265.68 203.04	152.60
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,180.32 265.68 203.04	178.03
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,047.21 265.68 203.04	132.25
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,692.11 265.68 203.04	152.60
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,358.29 265.68 203.04	178.03
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,047.21 265.68 203.04	132.25
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,692.11 265.68 203.04	152.60
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,358.29 265.68 203.04	178.03
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,163.97 265.68 203.04	132.25
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,838.34 265.68 203.04	152.60
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,586.13 265.68 203.04	178.03
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,286.40 265.68 203.04	132.25
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,993.64 265.68 203.04	152.60
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,825.31 265.68 203.04	178.03

## 26 50 Lighting (26)

Note: Light fixtures include testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

### 26 52 Safety Lighting (26 50)

#### 26 52 13 Emergency and Exit Lighting (26 52)

##### 26 52 13 13 Emergency Lighting (26 52 13)

##### 26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)

##### 26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED).....	157.44	25.44
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2) .....	112.65	25.44
<i>For Halogen Lamps, Add</i>	27.55	
<i>For Self-Diagnostics, Add</i>	87.50	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0005	EA		18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618).....	171.27	25.44
			<i>For Halogen Lamps, Add</i> .....	27.55	
			<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0006	EA		27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627).....	197.81	25.44
			<i>For Halogen Lamps, Add</i> .....	27.55	
			<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0007	EA		54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654).....	289.01	25.44
			<i>For Halogen Lamps, Add</i> .....	27.55	
			<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0008	EA		54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	326.03	25.44
			<i>For Halogen Lamps, Add</i> .....	27.55	
			<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0009	EA		72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272).....	470.26	25.44
			<i>For Halogen Lamps, Add</i> .....	27.55	
			<i>For Self-Diagnostics, Add</i> .....	87.50	
<b>26 52 13 13-0010</b>			<b>Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)</b>		
			Note: For use with fixtures that have remote capability.		
26 52 13 13-0011	EA		6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	105.61	15.26
26 52 13 13-0012	EA		6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	106.28	15.26
26 52 13 13-0013	EA		8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	108.52	15.26
26 52 13 13-0014	EA		12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	108.15	15.26
26 52 13 13-0015	EA		12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	94.41	15.26
26 52 13 13-0016	EA		12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	67.11	15.26
<b>26 52 13 13-0017</b>			<b>Industrial Emergency Lights (26 52 13 13)</b>		
<b>26 52 13 13-0018</b>			<b>Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)</b>		
<b>26 52 13 13-0019</b>			<b>Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)</b>		
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020	EA		16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	268.86	25.44
			<i>For Wireguard, Add</i> .....	131.17	
26 52 13 13-0021	EA		24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....	227.44	25.44
			<i>For Wireguard, Add</i> .....	131.17	
26 52 13 13-0022	EA		36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....	348.50	25.44
			<i>For Wireguard, Add</i> .....	131.17	
26 52 13 13-0023	EA		50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	369.39	25.44
			<i>For Wireguard, Add</i> .....	131.17	
26 52 13 13-0024	EA		125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	522.60	25.44
			<i>For Wireguard, Add</i> .....	139.70	
26 52 13 13-0025	EA		275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	815.69	25.44
			<i>For Wireguard, Add</i> .....	139.70	
<b>26 52 13 13-0026</b>			<b>Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0019)</b>		
			Note: For use with fixtures that have remote capability.		
26 52 13 13-0027	EA		8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	82.84	15.26
			<i>For Wireguard, Add</i> .....	105.85	
26 52 13 13-0028	EA		12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	85.44	15.26
			<i>For Wireguard, Add</i> .....	105.85	
26 52 13 13-0029	EA		8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	83.20	15.26
			<i>For Wireguard, Add</i> .....	105.85	
26 52 13 13-0030	EA		12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	83.63	15.26
			<i>For Wireguard, Add</i> .....	105.85	
26 52 13 13-0031	EA		12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	85.44	15.26
			<i>For Wireguard, Add</i> .....	105.85	
26 52 13 13-0032	EA		12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	98.65	15.26
			<i>For Wireguard, Add</i> .....	105.85	
<b>26 52 13 13-0033</b>			<b>Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0017)</b>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Safety Lighting</b>	<b>26 52</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>		
<i>Note: Includes lead-calcium batteries and two adjustable lamp heads.</i>		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Industrial Emergency Light (Lithonia IND618) .....	265.53	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0036 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236) .....	287.64	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0037 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654) .....	281.58	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254) .....	297.02	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100) .....	492.62	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0040 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618) .....	389.37	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236) .....	434.79	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254) .....	457.80	25.44
<i>For Wireguard, Add</i>	127.53	
<i>For Self-Diagnostics, Add</i>	61.50	
<b>26 52 13 13-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>		
<i>Note: For use with fixtures that have remote capability.</i>		
26 52 13 13-0044 EA 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906) .....	72.85	15.26
26 52 13 13-0045 EA 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206) .....	78.12	15.26
26 52 13 13-0046 EA 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912) .....	72.91	15.26
26 52 13 13-0047 EA 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212) .....	76.79	15.26
26 52 13 13-0048 EA 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012) .....	66.83	15.26
<b>26 52 13 13-0049 Outdoor Emergency Lights</b> <small>(26 52 13 13)</small>		
<b>26 52 13 13-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights</b> <small>(26 52 13 13-0049)</small>		
<i>Note: Includes nickel-cadmium batteries.</i>		
26 52 13 13-0051 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series) .....	411.47	25.44
26 52 13 13-0052 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series) .....	488.68	25.44
<b>26 52 13 13-0053 Recessed Emergency Lights</b> <small>(26 52 13 13)</small>		
26 52 13 13-0054 EA 10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG) .....	446.55	25.44
<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055 EA 16 Watts At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2) .....	368.32	50.86
<i>Note: Includes lead-calcium batteries and two adjustable lamp heads.</i>		
<i>For Wireguard, Add</i>	139.70	
26 52 13 13-0056 EA 50 Watts At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4) .....	517.96	50.86
<i>Note: Includes lead-calcium batteries and two adjustable lamp heads.</i>		
<i>For Wireguard, Add</i>	139.70	
<b>26 52 13 13-0057 Square Wraparound Emergency Lights</b> <small>(26 52 13 13)</small>		
26 52 13 13-0058 EA 10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ) .....	210.54	25.44
<b>26 52 13 16 Exit Signs</b> <small>(26 52 13)</small>		
<i>Note: Excludes pendants.</i>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0001			<b>LED Exit Signs</b> <small>(26 52 13 16)</small> Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	135.69	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	135.69	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	181.55	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	181.55	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	197.94	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	221.85	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	187.95	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	205.30	37.19
			<i>For Green LED Lamps, Add</i> .....	15.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM).....	241.03	37.19
			Note: Includes two circular side mounted krypton emergency lights. <i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED).....	389.24	37.19
			Note: Includes two circular side mounted LED emergency lights. <i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	295.31	37.19
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights. <i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	307.91	37.19
			Note: Includes two circular side mounted PAR 36 emergency lights. <i>For Green LED Lamps, Add</i> .....	15.00	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	97.06	37.19
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	97.35	37.24
26 52 13 16-0016			<b>Edge-Lit LED Exit Signs</b> <small>(26 52 13 16)</small> Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign.....	268.05	37.19
			<i>For Green LED Lamps, Add</i> .....	40.00	
26 52 13 16-0018	EA		Double Face, Edge-Lit LED Exit Sign.....	286.27	37.19
			<i>For Green LED Lamps, Add</i> .....	40.00	
26 52 13 16-0019	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	324.30	37.19
			<i>For Green LED Lamps, Add</i> .....	40.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0020	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	337.72	37.19
			<i>For Green LED Lamps, Add</i> .....	40.00	
			<i>For Self-Diagnostics, Add</i> .....	50.00	
26 52 13 16-0021			<b>Self-Luminous Tritium Exit Signs</b> <small>(26 52 13 16)</small> Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52 13 16-0022	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	357.77	37.19
26 52 13 16-0023	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	640.88	37.19
26 52 13 16-0024	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	422.27	37.19
26 52 13 16-0025	EA		20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	692.65	37.19
26 52 13 16-0026	EA		10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	389.87	37.19
26 52 13 16-0027	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	692.65	37.19
26 52 13 16-0028	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	473.74	37.19
26 52 13 16-0029	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	854.94	37.19
26 52 13 16-0030			<b>Vandal-Resistant LED Exit Signs</b> <small>(26 52 13 16)</small> Note: Includes red LED lamps.		
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	338.70	37.19
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	514.01	37.19
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	621.50	37.19
26 52 13 16-0034			<b>Remove And Reinstall Exit Light Fixture</b> <small>(26 52 13 16)</small>		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures.....	76.30	
			Note: Includes storage and cleaning.		
26 52 13 16-0036			<b>Exit Sign Accessories</b> <small>(26 52 13 16)</small>		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs.....	80.91	10.19
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights.....	49.61	10.19



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Safety Lighting</b>	<b>26 52</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 52 13 16-0039 EA Removal And Replacement Of Battery For Exit Signs .....82.33

**26 55 Special Purpose Lighting (26 50)**

**26 55 13 Landscape Lighting (26 55)**

26 55 13 00-0001	EA	Bollards (26 55 13) Note: Excludes concrete base.		
26 55 13 00-0002	EA	Aluminum Architectural Bollards (26 55 13 00-0001)		
26 55 13 00-0003	EA	High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004	EA	Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005	EA	24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	963.76	86.48
26 55 13 00-0006	EA	30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	973.93	91.56
26 55 13 00-0007	EA	36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	984.10	96.65
26 55 13 00-0008	EA	42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	917.91	101.74
26 55 13 00-0009	EA	24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	963.76	86.48
26 55 13 00-0010	EA	30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	973.93	91.56
26 55 13 00-0011	EA	36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	984.10	96.65
26 55 13 00-0012	EA	42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	917.91	101.74
26 55 13 00-0013	EA	24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	963.76	86.48
26 55 13 00-0014	EA	30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	973.93	91.56
26 55 13 00-0015	EA	36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	984.10	96.65
26 55 13 00-0016	EA	42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	917.91	101.74
26 55 13 00-0017	EA	24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	963.76	86.48
26 55 13 00-0018	EA	30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	973.93	91.56
26 55 13 00-0019	EA	36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	984.10	96.65
26 55 13 00-0020	EA	42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	917.91	101.74

**26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)**

26 55 13 00-0022	EA	24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	928.69	86.48
26 55 13 00-0023	EA	30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	938.86	91.56
26 55 13 00-0024	EA	36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	949.03	96.65
26 55 13 00-0025	EA	42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	882.53	101.74
26 55 13 00-0026	EA	24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	928.69	86.48
26 55 13 00-0027	EA	30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	938.86	91.56
26 55 13 00-0028	EA	36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	949.03	96.65
26 55 13 00-0029	EA	42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	882.53	101.74
26 55 13 00-0030	EA	24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	928.69	86.48
26 55 13 00-0031	EA	30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	938.86	91.56
26 55 13 00-0032	EA	36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	949.03	96.65
26 55 13 00-0033	EA	42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	882.53	101.74
26 55 13 00-0034	EA	24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	928.69	86.48
26 55 13 00-0035	EA	30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	938.86	91.56
26 55 13 00-0036	EA	36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	949.03	96.65
26 55 13 00-0037	EA	42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	882.53	101.74

**26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)**

**26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)**

26 55 13 00-0040	EA	24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,009.29	86.48
26 55 13 00-0041	EA	30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,019.46	91.56
26 55 13 00-0042	EA	36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,029.63	96.65
26 55 13 00-0043	EA	42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	963.13	101.74
26 55 13 00-0044	EA	24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,009.29	86.48
26 55 13 00-0045	EA	30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,019.46	91.56
26 55 13 00-0046	EA	36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,029.63	96.65
26 55 13 00-0047	EA	42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	963.13	101.74
26 55 13 00-0048	EA	24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,009.29	86.48
26 55 13 00-0049	EA	30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,019.46	91.56
26 55 13 00-0050	EA	36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,029.63	96.65
26 55 13 00-0051	EA	42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,001.23	101.74

**26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)**

26 55 13 00-0053	EA	24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	973.90	86.48
26 55 13 00-0054	EA	30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	984.07	91.56
26 55 13 00-0055	EA	36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	994.24	96.65
26 55 13 00-0056	EA	42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	927.74	101.74
26 55 13 00-0057	EA	24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	973.90	86.48
26 55 13 00-0058	EA	30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	984.07	91.56
26 55 13 00-0059	EA	36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	994.24	96.65
26 55 13 00-0060	EA	42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	927.74	101.74
26 55 13 00-0061	EA	24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	973.90	86.48
26 55 13 00-0062	EA	30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	984.07	91.56
26 55 13 00-0063	EA	36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	994.24	96.65
26 55 13 00-0064	EA	42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	927.74	101.74





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 55 13 00-0065	Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0066	Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0067	EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	959.77	86.48
26 55 13 00-0068	EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	969.94	91.56
26 55 13 00-0069	EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	980.11	96.65
26 55 13 00-0070	EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	914.64	101.74
26 55 13 00-0071	EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	959.77	86.48
26 55 13 00-0072	EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	969.94	91.56
26 55 13 00-0073	EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	980.11	96.65
26 55 13 00-0074	EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	914.64	101.74
26 55 13 00-0075	EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	959.77	86.48
26 55 13 00-0076	EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	969.94	91.56
26 55 13 00-0077	EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	980.11	96.65
26 55 13 00-0078	EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	914.64	101.74
26 55 13 00-0079	Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0080	EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.15	86.48
26 55 13 00-0081	EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	935.32	91.56
26 55 13 00-0082	EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	945.49	96.65
26 55 13 00-0083	EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	880.69	101.74
26 55 13 00-0084	EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.15	86.48
26 55 13 00-0085	EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	935.32	91.56
26 55 13 00-0086	EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	945.49	96.65
26 55 13 00-0087	EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	880.69	101.74
26 55 13 00-0088	EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.15	86.48
26 55 13 00-0089	EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	935.32	91.56
26 55 13 00-0090	EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	945.49	96.65
26 55 13 00-0091	EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	880.69	101.74
26 55 13 00-0092	LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0093	Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0094	EA 24" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,139.50	86.48
26 55 13 00-0095	EA 30" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,149.67	91.56
26 55 13 00-0096	EA 36" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,159.84	96.65
26 55 13 00-0097	EA 42" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,095.33	101.74
26 55 13 00-0098	EA 24" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,380.47	86.48
26 55 13 00-0099	EA 30" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,390.64	91.56
26 55 13 00-0100	EA 36" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,400.81	96.65
26 55 13 00-0101	EA 42" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,335.10	101.74
26 55 13 00-0102	Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0103	EA 24" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,103.55	86.48
26 55 13 00-0104	EA 30" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,113.72	91.56
26 55 13 00-0105	EA 36" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,123.89	96.65
26 55 13 00-0106	EA 42" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,058.18	101.74
26 55 13 00-0107	EA 24" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,344.52	86.48
26 55 13 00-0108	EA 30" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,354.69	91.56
26 55 13 00-0109	EA 36" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,364.86	96.65
26 55 13 00-0110	EA 42" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,299.58	101.74
26 55 13 00-0111	Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0112	EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard	1,051.22	254.33
26 55 13 00-0113	EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	1,786.22	339.09
26 55 13 00-0114	Low Voltage (26 55 13)		
26 55 13 00-0115	EA Low Voltage Recessed Uplight	589.07	185.16
26 55 13 00-0116	EA Low Voltage Walkway	400.70	101.74
26 55 13 00-0117	EA Low Voltage Malibu - 5 Light Set	415.09	135.82
26 55 13 00-0118	EA Low Voltage Mushroom 24" Pier	350.49	101.74
26 55 13 00-0119	Recessed, Adjustable (26 55 13)		
26 55 13 00-0120	EA 150 Watt Incandescent Recessed, Adjustable	659.02	162.78
26 55 13 00-0121	EA 300 Watt Incandescent Recessed, Adjustable	712.81	162.78
26 55 13 00-0122	Recessed, Uplight (26 55 13)		
26 55 13 00-0123	EA 50 Watt Incandescent Recessed Uplight	598.06	162.78
26 55 13 00-0124	EA 150 Watt Incandescent Recessed Uplight	608.82	162.78
26 55 13 00-0125	EA 300 Watt Incandescent Recessed Uplight	641.09	162.78
26 55 13 00-0126	EA 500 Watt Quartz Recessed Uplight	637.51	162.78





<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0127 EA 5 Watt LED Recessed Uplight.....	765.30	162.78
26 55 13 00-0128 EA 15 Watt LED Recessed Uplight.....	832.42	162.78
<b>26 55 13 00-0129 Recessed Wall Light</b> <small>(26 55 13)</small>		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	318.22	101.74
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	307.46	101.74
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	483.22	135.82
<b>26 55 13 00-0133 Step Lights</b> <small>(26 55 13)</small>		
26 55 13 00-0134 EA Incandescent Step Light.....	259.55	81.39
26 55 13 00-0135 EA Fluorescent Step Light.....	295.46	81.39
26 55 13 00-0136 EA 5 Watt LED Step Light.....	415.59	81.39
26 55 13 00-0137 EA 15 Watt LED Step Light.....	487.18	81.39
<b>26 55 13 00-0138 Tree Lights, Surface Adjustable</b> <small>(26 55 13)</small>		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights.....	529.84	135.82
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights.....	540.60	135.82
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights.....	693.82	203.47
<b>26 55 16 Walkway Lighting</b> <small>(26 55)</small>		
<b>26 55 16 00-0001 Incandescent Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	458.96	94.61
<b>26 55 16 00-0003 Metal Halide Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture.....	702.83	148.74
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....	748.92	154.13
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture.....	816.21	160.03
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture.....	871.72	172.95
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture.....	768.95	160.03
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....	793.76	148.74
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture.....	805.67	154.13
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....	660.98	106.01
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....	708.25	106.01
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	755.52	106.01
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	853.28	119.34
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	639.55	95.22
<b>26 55 16 00-0016 High Pressure Sodium Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	614.16	148.74
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....	652.53	154.13
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....	707.65	160.03
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture.....	756.73	172.95
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	670.73	160.03
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture.....	685.20	148.74
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	696.87	154.13
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	562.76	106.01
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	599.68	106.01
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	636.61	106.01
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	718.87	119.34
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	358.58	95.22
<b>26 55 16 00-0029 Walkway, Adjustable</b> <small>(26 55 16)</small>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	668.09	135.82
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....	691.41	135.82
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....	1,230.92	203.47
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture.....	576.59	101.74
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture.....	607.69	101.74
<b>26 55 16 00-0035 LED Walkway</b> <small>(26 55 16)</small>		
<b>26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG)</b> <small>(26 55 16 00-0035)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	800.25	78.05
For Multi-Level Drive Currents, Add	212.27	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	826.03	78.05
For Multi-Level Drive Currents, Add	212.27	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	871.51	78.05
For Multi-Level Drive Currents, Add	212.27	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	906.38	78.05
For Multi-Level Drive Currents, Add	212.27	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 55</b>	<b>Special Purpose Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) ..... <i>For Multi-Level Drive Currents, Add</i>	1,042.11 212.27	100.36
<b>26 55 16 00-0042 Wall Mounted Walkway Lighting</b> <small>(26 55 16 00-0035)</small>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492) ..... Note: Type Fixture 17 as Post	2,655.99	
<b>26 55 16 00-0044 Pole Mounted Walkway Lighting</b> <small>(26 55 16 00-0035)</small>		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27) .....	2,459.51	
26 55 16 00-0046 EA 12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12)..... Note: Washers and nuts included	2,416.30	
<b>26 55 29 Underwater Lighting</b> <small>(26 55)</small>		
<b>26 55 29 00-0001 Underwater Lights</b> <small>(26 55 29)</small>		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights.....	411.44	67.65
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights.....	454.47	67.65
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights.....	1,082.03	101.74
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights.....	429.37	67.65
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights.....	479.57	67.65
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent .....	1,219.40	152.60
<b>26 55 53 Security Lighting</b> <small>(26 55)</small>		
<b>26 55 53 11 Security Flood Lighting</b> <small>(26 55 53)</small>		
26 55 53 11-0001 General Electric Powerflood® Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light .....	263.70	82.16
26 55 53 11-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light .....	265.68	82.16
26 55 53 11-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light .....	269.00	82.16
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light .....	342.53	82.16
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0010 High Pressure Sodium P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light .....	504.62	109.56
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light .....	507.27	109.56
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light .....	511.90	109.56
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light .....	564.24	109.56
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light .....	579.47	109.56
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light .....	499.98	109.56
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light .....	523.16	109.56
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light .....	535.09	109.56
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	520.74	123.25
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	524.06	123.25
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	529.36	123.25
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	581.03	123.25
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	595.60	123.25
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light .....	516.77	123.25
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light .....	539.29	123.25
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light .....	551.22	123.25



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	677.08	123.25
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	723.45	123.25
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	720.14	123.25
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	736.70	123.25
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light .....	694.31	123.25
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light .....	708.22	123.25
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light .....	722.79	123.25
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	902.55	136.94
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	902.55	136.94
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light .....	864.12	136.94
26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights <small>(26 55 53 11-0001)</small> Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	740.68	123.25
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	753.26	123.25
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	747.96	123.25
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light .....	130.95	27.39
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	81.93	27.39
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light.....	112.40	27.39
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	89.22	27.39
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light .....	231.90	82.16
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	96.50	27.39
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	182.22	82.16
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light .....	188.18	82.16
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light .....	75.97	27.39
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	73.98	27.39
26 55 53 11-0064 Lithonia Contour Series Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light .....	469.35	109.56
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light .....	507.60	109.56
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light .....	545.05	109.56
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light .....	591.79	109.56
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light .....	582.59	109.56
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light .....	567.75	109.56
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light .....	566.65	109.56
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light .....	587.98	109.56
<b>26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small> Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights</b> <small>(26 55 53 11-0077)</small>		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light .....	696.06	123.25
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light .....	708.81	123.25
<b>26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights</b> <small>(26 55 53 11-0077)</small>		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light .....	667.38	123.25
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light .....	667.38	123.25
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light .....	687.39	123.25
<b>26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small> Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights</b> <small>(26 55 53 11-0085)</small>		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	662.31	109.56
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	681.40	109.56
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	697.35	109.56
<b>26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights</b> <small>(26 55 53 11-0085)</small>		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light.....	655.92	109.56
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light.....	675.04	109.56
<b>26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small> Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights</b> <small>(26 55 53 11-0093)</small>		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,246.20	136.94
<b>26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights</b> <small>(26 55 53 11-0093)</small>		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	975.22	136.94
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,070.85	136.94
<b>26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small>		
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	114.88	27.39
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light.....	208.75	27.39
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light.....	97.17	27.39
26 55 53 11-0103 EA Full Visor For Contour Series Lithonia Flood Light.....	125.85	27.39
26 55 53 11-0104 EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	291.83	82.16
26 55 53 11-0105 EA Radius Wall Bracket For Contour Series Lithonia Flood Light .....	241.07	82.16
26 55 53 11-0106 EA Steel Angle Bracket For Contour Series Lithonia Flood Light .....	241.07	82.16
26 55 53 11-0107 EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	261.31	82.16
26 55 53 11-0108 EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	110.52	27.39
26 55 53 11-0109 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light .....	91.07	27.39
<b>26 55 53 11-0110 Eaton Flood Lights</b> <small>(26 55 53 11)</small>		
26 55 53 11-0111 EA 6" x 6", 128 Watt, 16,932 Lumens, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB) .....	705.58	109.56
For NEMA Photocontrol Option (Eaton OA/RA1016), Add	34.33	
26 55 53 11-0112 EA 128 Watt, 120-277 Volt, 16,900 Lumens, NEMA 6H x 6V Wide, Trunnion Mount, 4000K Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016) .....	871.58	121.88
<b>26 55 53 11-0113 Ruud Flood Lights</b> <small>(26 55 53 11)</small>		
<b>26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small> Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>		
26 55 53 11-0116 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	314.04	82.16
26 55 53 11-0117 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	314.04	82.16
26 55 53 11-0118 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	314.04	82.16
26 55 53 11-0119 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	314.04	82.16
26 55 53 11-0120 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	314.04	82.16



<b>Electrical</b>	<b>26</b>	
Lighting	26 50	26
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>		
26 55 53 11-0121 EA 50 Watt Metal Halide NS Series Ruud Flood Light .....	351.14	82.16
26 55 53 11-0123 EA 70 Watt Metal Halide NS Series Ruud Flood Light .....	351.14	82.16
26 55 53 11-0124 EA 100 Watt Metal Halide NS Series Ruud Flood Light .....	351.14	82.16
<b>26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>		
26 55 53 11-0126 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light .....	275.62	82.16
26 55 53 11-0127 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light .....	284.90	82.16
26 55 53 11-0128 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light .....	287.55	82.16
26 55 53 11-0129 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light .....	290.20	82.16
<b>26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small>		
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
<b>26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights</b> <small>(26 55 53 11-0130)</small>		
26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	482.32	123.25
26 55 53 11-0133 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	506.17	123.25
26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	519.42	123.25
<b>26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights</b> <small>(26 55 53 11-0130)</small>		
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....	477.02	123.25
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....	479.67	123.25
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....	487.62	123.25
<b>26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights</b> <small>(26 55 53 11-0130)</small>		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light .....	467.75	123.25
<b>26 55 53 11-0141 FS (Square) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small>		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
<b>26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights</b> <small>(26 55 53 11-0141)</small>		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	552.54	123.25
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	555.19	123.25
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	903.21	136.94
<b>26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights</b> <small>(26 55 53 11-0141)</small>		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	552.54	123.25
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	555.19	123.25
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	563.14	123.25
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	815.76	136.94
<b>26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small>		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
<b>26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights</b> <small>(26 55 53 11-0151)</small>		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	440.36	109.56
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	468.18	109.56
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	468.18	109.56
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	468.18	109.56
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	468.18	109.56
<b>26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights</b> <small>(26 55 53 11-0151)</small>		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	477.46	109.56
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	477.46	109.56
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	477.46	109.56
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	462.88	109.56
<b>26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff, Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small>		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights</b> <small>(26 55 53 11-0163)</small>		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	473.48	109.56
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	501.30	109.56
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	501.30	109.56
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	501.30	109.56
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	501.30	109.56





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 53 11-0170</b>	<b>Metal Halide MCF/MPM/MPN Series Ruud Flood Lights <small>(26 55 53 11-0163)</small></b>	
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	510.58	109.56
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	510.58	109.56
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	510.58	109.56
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	496.00	109.56
<b>26 55 53 11-0175</b>	<b>CF (Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small></b>	
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
<b>26 55 53 11-0176</b>	<b>High Pressure Sodium CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small></b>	
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	614.81	123.25
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	628.06	123.25
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	936.33	136.94
<b>26 55 53 11-0180</b>	<b>Metal Halide CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small></b>	
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	585.66	123.25
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	588.31	123.25
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	596.26	123.25
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	848.89	136.94
<b>26 55 53 11-0185</b>	<b>CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small></b>	
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0186</b>	<b>High Pressure Sodium CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small></b>	
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	782.64	136.94
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	920.43	136.94
<b>26 55 53 11-0189</b>	<b>Metal Halide CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small></b>	
26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light.....	750.84	136.94
26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	832.99	136.94
<b>26 55 53 11-0192</b>	<b>PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights</b>	
<small>(26 55 53 11-0113)</small>		
Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0193</b>	<b>High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small></b>	
26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	633.36	123.25
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	646.61	123.25
<b>26 55 53 11-0196</b>	<b>Metal Halide PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small></b>	
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	604.21	123.25
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	606.86	123.25
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	614.81	123.25
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	867.44	136.94
<b>26 55 53 11-0201</b>	<b>Accessories For Ruud Flood Lighting <small>(26 55 53 11-0113)</small></b>	
26 55 53 11-0202 EA Wireguard For Ruud Flood Light.....	74.64	27.39
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Ruud Flood Light.....	110.42	27.39
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Ruud Flood Light.....	83.92	27.39
26 55 53 11-0205 EA Vandal Shield For Ruud Flood Light.....	97.17	27.39
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light.....	209.38	82.16
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	66.69	27.39
<b>26 55 53 11-0208</b>	<b>Lumark Flood Lights <small>(26 55 53 11)</small></b>	
<b>26 55 53 11-0209</b>	<b>QZ Wedge Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small></b>	
Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	191.42	82.16
<b>26 55 53 11-0211</b>	<b>LQL Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small></b>	
Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light.....	230.51	82.16
<b>26 55 53 11-0213</b>	<b>Kim Lighting <small>(26 55 53 11)</small></b>	
<b>26 55 53 11-0214</b>	<b>MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small></b>	
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0215</b>	<b>LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0214)</small></b>	



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0216	EA	5 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	332.11	35.65
26 55 53	11-0217	EA	15 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	405.62	35.65
26 55 53	11-0218		<b>Scarab® Series Kim Lighting Flood Lights</b> (26 55 53 11-0213) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53	11-0219		<b>LED Scarab® Series Kim Lighting Accent Flood Lights</b> (26 55 53 11-0218) Note: Spot or narrow style accent flood lights.		
26 55 53	11-0220	EA	6 Watt LED Scarab® Series Kim Lighting Accent Flood Light.....	496.05	35.65
26 55 53	11-0221		<b>CREE® BetaLED® Flood Lights</b> (26 55 53 11)		
26 55 53	11-0222		<b>Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304)</b> (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0223	EA	40 LEDs, 47 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,030.33	99.72
26 55 53	11-0224	EA	60 LEDs, 68 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,129.35	105.26
26 55 53	11-0225		<b>Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG)</b> (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0226	EA	20 LEDs, 26 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	893.39	94.19
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0227	EA	40 LEDs, 47 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,127.36	99.72
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0228	EA	60 LEDs, 68 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,361.33	105.26
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0229	EA	80 LEDs, 90 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,684.73	110.81
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0230	EA	100 LEDs, 111 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,918.69	116.34
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0231	EA	120 LEDs, 132 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,152.67	121.88
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0232	EA	140 LEDs, 157 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,457.89	127.42
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0233	EA	160 LEDs, 179 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,691.84	132.96
			<i>For 347-480 Volt, Add</i>	61.79	
26 55 53	11-0234		<b>Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO)</b> (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0235	EA	120 LEDs, 267 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,063.21	121.88
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Bird Spikes, Add</i>	40.36	
			<i>For 5,000K Color Temperature, Add</i>	44.71	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
			<i>For 1,000mA Driver, Add</i>	150.21	
26 55 53	11-0236	EA	240 LEDs, 533 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,508.07	149.58
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For 5,000K Color Temperature, Add</i>	44.71	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For Bird Spikes, Add</i>	60.04	
			<i>For Multi-Level, Add</i>	116.23	
			<i>For 1,000mA Driver, Add</i>	150.21	
			<i>For 480 Volt, Add</i>	160.93	
26 55 53	11-0237		<b>Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™)</b> (26 55 53 11-0221) Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 55</b>	<b>Special Purpose Lighting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0238	EA	112 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,201.37	121.88
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	30.96	
			<i>For Rotated Optics, Back Light Shield, Add</i>	30.96	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For Multi-Level, Add</i>	116.23	
26 55 53	11-0239	EA	168 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,285.87	121.88
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	30.96	
			<i>For Rotated Optics, Back Light Shield, Add</i>	30.96	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	-129.28	
			<i>For Multi-Level, Add</i>	116.23	
26 55 53	11-0240	EA	223 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL).....	1,651.07	149.58
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	37.49	
			<i>For Rotated Optics, Back Light Shield, Add</i>	37.49	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For Multi-Level, Add</i>	116.23	
<b>26 55 53</b>	<b>11-0241</b>		<b>PlanLED Flood Lights</b> (26 55 53 11)		
<b>26 55 53</b>	<b>11-0242</b>		<b>Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA)</b> (26 55 53 11-0241)		
26 55 53	11-0243	EA	6,250 Lumens, 50 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050).....	437.06	99.72
26 55 53	11-0244	EA	9,375 Lumens, 75 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075).....	515.16	105.26
26 55 53	11-0245	EA	12,500 Lumens, 100 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100).....	590.27	113.57
<b>26 55 53</b>	<b>11-0246</b>		<b>Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA)</b> (26 55 53 11-0241)		
26 55 53	11-0247	EA	21,000 Lumens, 200 System Watts, LED Sports Flood Light (PlanLED SUFA SF200).....	1,192.60	221.60
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
26 55 53	11-0248	EA	42,000 Lumens, 400 System Watts, LED Sports Flood Light (PlanLED SUFA SF400).....	1,783.59	221.60
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
26 55 53	11-0249	EA	84,000 Lumens, 800 System Watts, LED Sports Flood Light (PlanLED SUFA SF800).....	3,055.73	221.60
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
<b>26 55 53</b>	<b>11-0250</b>		<b>Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA)</b> (26 55 53 11-0241)		
26 55 53	11-0251	EA	26,000 Lumens, 200 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	1,027.73	144.04
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	-20.68	
26 55 53	11-0252	EA	39,000 Lumens, 300 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	1,297.14	149.58
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	62.95	
26 55 53	11-0253	EA	52,000 Lumens, 400 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	1,636.01	155.13
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	50.54	
<b>26 55 68</b>			<b>Athletic Field Lighting</b> (26 55)		
<b>26 55 68</b>	<b>00-0001</b>		<b>Sports Lighting System</b> (26 55 68) Note: Musco.		
<b>26 55 68</b>	<b>00-0002</b>		<b>Round Steel Tapered Poles</b> (26 55 68 00-0001) Note: With Internal wiring harness.		
26 55 68	00-0003	EA	20' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	2,641.72	525.86
26 55 68	00-0004	EA	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	3,180.08	635.40
26 55 68	00-0005	EA	30' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	3,571.78	690.19
26 55 68	00-0006	EA	35' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	3,888.14	717.57
26 55 68	00-0007	EA	40' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	4,803.83	744.96
26 55 68	00-0008	EA	45' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	5,538.96	909.29
26 55 68	00-0009	EA	50' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	5,946.15	964.06
26 55 68	00-0010	EA	55' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	6,754.73	1,095.53
26 55 68	00-0011	EA	60' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	7,663.56	1,232.46
26 55 68	00-0012	EA	65' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	8,518.44	1,382.11
26 55 68	00-0013	EA	70' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	9,309.93	1,544.71
26 55 68	00-0014	EA	75' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	10,175.46	1,734.42
26 55 68	00-0015	EA	80' Steel Tapered Pole With Precast Concrete Foundation Sleeve .....	11,485.24	2,086.72



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 68 00-0016 Steel Pole Brackets</b> <small>(26 55 68 00-0001)</small>		
26 55 68 00-0017 EA Two Light Bracket .....	402.29	54.77
26 55 68 00-0018 EA Three Light Bracket.....	507.39	76.69
26 55 68 00-0019 EA Four Light Bracket.....	727.47	93.12
26 55 68 00-0020 EA Five Light Bracket.....	830.34	109.56
26 55 68 00-0021 EA Six Light Bracket.....	1,005.73	125.99
26 55 68 00-0022 EA Seven Light Bracket.....	1,151.51	142.42
26 55 68 00-0023 EA Eight Light Bracket.....	1,315.87	164.33
26 55 68 00-0024 EA Nine Light Bracket.....	1,485.84	180.76
<b>26 55 68 00-0025 Light Fixtures</b> <small>(26 55 68 00-0001)</small>		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug..... <i>For 1,500 Watt Metal Halide Lamp, Add</i>	1,660.16 8.70	
<b>26 55 68 00-0027 Electrical Component Enclosure</b> <small>(26 55 68 00-0001)</small>		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted .....	623.56	66.13
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted .....	937.17	101.74
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted .....	1,073.97	127.17
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted .....	1,385.40	142.43
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted .....	1,554.96	152.60
<b>26 55 68 00-0033 Accessories</b> <small>(26 55 68 00-0001)</small>		
26 55 68 00-0034 EA Time Delay Kit (Musco®).....	714.15	203.75
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®).....	1,327.47	203.75
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	1,572.80	203.75
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	7,355.67	611.24
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®).....	816.79	101.74
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®).....	1,020.26	203.47
<b>26 56 Exterior Lighting</b> <small>(26 50)</small>		
<b>26 56 13 Lighting Poles And Standards</b> <small>(26 56)</small>		
<b>26 56 13 00-0001 Poles And Standards</b> <small>(26 56 13)</small>		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
<b>26 56 13 00-0002 Roadway Light Poles</b> <small>(26 56 13 00-0001)</small>		
Note: Excludes lighting fixtures.		
<b>26 56 13 00-0003 Steel Roadway Light Poles</b> <small>(26 56 13 00-0002)</small>		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
<b>26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles</b> <small>(26 56 13 00-0003)</small>		
<b>26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms</b> <small>(26 56 13 00-0004)</small>		
<b>26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm</b> <small>(26 56 13 00-0005)</small>		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....	3,337.20 80.40 -83.43 -166.86 -266.72	328.66
<i>For Galvanized Finish, Add</i>		
<i>For &gt;10 To 20, Deduct</i>		
<i>For &gt;20 To 40, Deduct</i>		
<i>For &gt;40, Deduct</i>		
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....	3,343.82 80.60 -83.60 -167.19 -267.22	328.66
<i>For Galvanized Finish, Add</i>		
<i>For &gt;10 To 20, Deduct</i>		
<i>For &gt;20 To 40, Deduct</i>		
<i>For &gt;40, Deduct</i>		
26 56 13 00-0009 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....	3,602.17 81.77 -90.05 -180.11 -292.07	438.21
<i>For Galvanized Finish, Add</i>		
<i>For &gt;10 To 20, Deduct</i>		
<i>For &gt;20 To 40, Deduct</i>		
<i>For &gt;40, Deduct</i>		
26 56 13 00-0010 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....	3,681.82 84.16 -92.05 -184.09 -298.05	438.21
<i>For Galvanized Finish, Add</i>		
<i>For &gt;10 To 20, Deduct</i>		
<i>For &gt;20 To 40, Deduct</i>		
<i>For &gt;40, Deduct</i>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0011	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,761.47	438.21
			For Galvanized Finish, Add	86.55	
			For >10 To 20, Deduct	-94.04	
			For >20 To 40, Deduct	-188.07	
			For >40, Deduct	-304.02	
26 56 13 00-0012	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,887.79	492.99
			For Galvanized Finish, Add	87.05	
			For >10 To 20, Deduct	-97.19	
			For >20 To 40, Deduct	-194.39	
			For >40, Deduct	-316.23	
26 56 13 00-0013	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,925.56	492.99
			For Galvanized Finish, Add	88.19	
			For >10 To 20, Deduct	-98.14	
			For >20 To 40, Deduct	-196.28	
			For >40, Deduct	-319.07	
26 56 13 00-0014	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,932.75	492.99
			For Galvanized Finish, Add	88.40	
			For >10 To 20, Deduct	-98.32	
			For >20 To 40, Deduct	-196.64	
			For >40, Deduct	-319.61	
26 56 13 00-0015	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,121.60	520.37
			For Galvanized Finish, Add	92.43	
			For >10 To 20, Deduct	-103.04	
			For >20 To 40, Deduct	-206.08	
			For >40, Deduct	-335.14	
26 56 13 00-0016	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,150.13	520.37
			For Galvanized Finish, Add	93.28	
			For >10 To 20, Deduct	-103.75	
			For >20 To 40, Deduct	-207.51	
			For >40, Deduct	-337.28	
26 56 13 00-0017	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,181.28	520.37
			For Galvanized Finish, Add	94.22	
			For >10 To 20, Deduct	-104.53	
			For >20 To 40, Deduct	-209.06	
			For >40, Deduct	-339.61	
26 56 13 00-0018	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,794.03	547.76
			For Galvanized Finish, Add	110.96	
			For >10 To 20, Deduct	-119.85	
			For >20 To 40, Deduct	-239.70	
			For >40, Deduct	-386.94	
26 56 13 00-0019	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,804.19	547.76
			For Galvanized Finish, Add	111.26	
			For >10 To 20, Deduct	-120.10	
			For >20 To 40, Deduct	-240.21	
			For >40, Deduct	-387.70	
26 56 13 00-0020	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,814.23	547.76
			For Galvanized Finish, Add	111.56	
			For >10 To 20, Deduct	-120.36	
			For >20 To 40, Deduct	-240.71	
			For >40, Deduct	-388.46	
26 56 13 00-0021			<b>Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms</b>		
			<small>(26 56 13 00-0005)</small>		
26 56 13 00-0022	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,169.61	383.43
			For Galvanized Finish, Add	102.08	
			For >10 To 20, Deduct	-104.24	
			For >20 To 40, Deduct	-208.48	
			For >40, Deduct	-331.89	
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,239.56	397.12
			For Galvanized Finish, Add	103.36	
			For >10 To 20, Deduct	-105.99	
			For >20 To 40, Deduct	-211.98	
			For >40, Deduct	-337.82	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,299.01	410.82
			For Galvanized Finish, Add	104.32	
			For >10 To 20, Deduct	-107.48	
			For >20 To 40, Deduct	-214.95	
			For >40, Deduct	-342.97	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....4,112.81	4,112.81	492.99
			<i>For Galvanized Finish, Add</i>	93.81	
			<i>For &gt;10 To 20, Deduct</i>	-102.82	
			<i>For &gt;20 To 40, Deduct</i>	-205.64	
			<i>For &gt;40, Deduct</i>	-333.11	
26 56 13 00-0026	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....4,157.08	4,157.08	506.68
			<i>For Galvanized Finish, Add</i>	94.31	
			<i>For &gt;10 To 20, Deduct</i>	-103.93	
			<i>For &gt;20 To 40, Deduct</i>	-207.85	
			<i>For &gt;40, Deduct</i>	-337.12	
26 56 13 00-0027	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....4,191.32	4,191.32	520.37
			<i>For Galvanized Finish, Add</i>	94.52	
			<i>For &gt;10 To 20, Deduct</i>	-104.78	
			<i>For &gt;20 To 40, Deduct</i>	-209.57	
			<i>For &gt;40, Deduct</i>	-340.37	
26 56 13 00-0028	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....4,430.95	4,430.95	547.76
			<i>For Galvanized Finish, Add</i>	100.06	
			<i>For &gt;10 To 20, Deduct</i>	-110.77	
			<i>For &gt;20 To 40, Deduct</i>	-221.55	
			<i>For &gt;40, Deduct</i>	-359.71	
26 56 13 00-0029	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....4,468.61	4,468.61	561.45
			<i>For Galvanized Finish, Add</i>	100.37	
			<i>For &gt;10 To 20, Deduct</i>	-111.72	
			<i>For &gt;20 To 40, Deduct</i>	-223.43	
			<i>For &gt;40, Deduct</i>	-363.22	
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....4,502.49	4,502.49	575.15
			<i>For Galvanized Finish, Add</i>	100.57	
			<i>For &gt;10 To 20, Deduct</i>	-112.56	
			<i>For &gt;20 To 40, Deduct</i>	-225.12	
			<i>For &gt;40, Deduct</i>	-366.44	
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....4,704.23	4,704.23	575.15
			<i>For Galvanized Finish, Add</i>	106.62	
			<i>For &gt;10 To 20, Deduct</i>	-117.61	
			<i>For &gt;20 To 40, Deduct</i>	-235.21	
			<i>For &gt;40, Deduct</i>	-381.57	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....4,775.78	4,775.78	588.85
			<i>For Galvanized Finish, Add</i>	107.94	
			<i>For &gt;10 To 20, Deduct</i>	-119.39	
			<i>For &gt;20 To 40, Deduct</i>	-238.79	
			<i>For &gt;40, Deduct</i>	-387.63	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....4,845.04	4,845.04	602.54
			<i>For Galvanized Finish, Add</i>	109.20	
			<i>For &gt;10 To 20, Deduct</i>	-121.13	
			<i>For &gt;20 To 40, Deduct</i>	-242.25	
			<i>For &gt;40, Deduct</i>	-393.50	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....5,337.40	5,337.40	602.54
			<i>For Galvanized Finish, Add</i>	123.97	
			<i>For &gt;10 To 20, Deduct</i>	-133.44	
			<i>For &gt;20 To 40, Deduct</i>	-266.87	
			<i>For &gt;40, Deduct</i>	-430.43	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....5,371.41	5,371.41	616.24
			<i>For Galvanized Finish, Add</i>	124.17	
			<i>For &gt;10 To 20, Deduct</i>	-134.29	
			<i>For &gt;20 To 40, Deduct</i>	-268.57	
			<i>For &gt;40, Deduct</i>	-433.67	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....5,405.66	5,405.66	629.93
			<i>For Galvanized Finish, Add</i>	124.37	
			<i>For &gt;10 To 20, Deduct</i>	-135.14	
			<i>For &gt;20 To 40, Deduct</i>	-270.28	
			<i>For &gt;40, Deduct</i>	-436.92	
26 56 13 00-0037			<b>Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms</b>		
			<small>(26 56 13 00-0005)</small>		
26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....4,847.89	4,847.89	547.76
			<i>For Galvanized Finish, Add</i>	112.57	
			<i>For &gt;10 To 20, Deduct</i>	-121.20	
			<i>For &gt;20 To 40, Deduct</i>	-242.39	
			<i>For &gt;40, Deduct</i>	-390.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,909.39	575.15
			For Galvanized Finish, Add	112.77	
			For >10 To 20, Deduct	-122.73	
			For >20 To 40, Deduct	-245.47	
			For >40, Deduct	-396.96	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	4,980.94	602.54
			For Galvanized Finish, Add	113.28	
			For >10 To 20, Deduct	-124.52	
			For >20 To 40, Deduct	-249.05	
			For >40, Deduct	-403.70	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,125.62	602.54
			For Galvanized Finish, Add	117.62	
			For >10 To 20, Deduct	-128.14	
			For >20 To 40, Deduct	-256.28	
			For >40, Deduct	-414.55	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,190.34	629.93
			For Galvanized Finish, Add	117.91	
			For >10 To 20, Deduct	-129.76	
			For >20 To 40, Deduct	-259.52	
			For >40, Deduct	-420.77	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,251.84	657.32
			For Galvanized Finish, Add	118.12	
			For >10 To 20, Deduct	-131.30	
			For >20 To 40, Deduct	-262.59	
			For >40, Deduct	-426.75	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,455.87	629.93
			For Galvanized Finish, Add	125.88	
			For >10 To 20, Deduct	-136.40	
			For >20 To 40, Deduct	-272.79	
			For >40, Deduct	-440.69	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,517.37	657.32
			For Galvanized Finish, Add	126.08	
			For >10 To 20, Deduct	-137.93	
			For >20 To 40, Deduct	-275.87	
			For >40, Deduct	-446.67	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,578.87	684.70
			For Galvanized Finish, Add	126.28	
			For >10 To 20, Deduct	-139.47	
			For >20 To 40, Deduct	-278.94	
			For >40, Deduct	-452.65	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,880.79	657.32
			For Galvanized Finish, Add	136.98	
			For >10 To 20, Deduct	-147.02	
			For >20 To 40, Deduct	-294.04	
			For >40, Deduct	-473.93	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,941.95	684.70
			For Galvanized Finish, Add	137.18	
			For >10 To 20, Deduct	-148.55	
			For >20 To 40, Deduct	-297.10	
			For >40, Deduct	-479.88	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	6,010.21	712.09
			For Galvanized Finish, Add	137.58	
			For >10 To 20, Deduct	-150.26	
			For >20 To 40, Deduct	-300.51	
			For >40, Deduct	-486.37	
26 56 13 00-0050			<b>Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms</b> <small>(26 56 13 00-0005)</small>		
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,394.57	602.54
			For Galvanized Finish, Add	125.69	
			For >10 To 20, Deduct	-134.86	
			For >20 To 40, Deduct	-269.73	
			For >40, Deduct	-434.72	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,486.78	643.62
			For Galvanized Finish, Add	125.99	
			For >10 To 20, Deduct	-137.17	
			For >20 To 40, Deduct	-274.34	
			For >40, Deduct	-443.69	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,575.56	684.70
			<i>For Galvanized Finish, Add</i>	126.18	
			<i>For &gt;10 To 20, Deduct</i>	-139.39	
			<i>For &gt;20 To 40, Deduct</i>	-278.78	
			<i>For &gt;40, Deduct</i>	-452.40	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,713.51	657.32
			<i>For Galvanized Finish, Add</i>	131.97	
			<i>For &gt;10 To 20, Deduct</i>	-142.84	
			<i>For &gt;20 To 40, Deduct</i>	-285.68	
			<i>For &gt;40, Deduct</i>	-461.38	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,802.75	698.40
			<i>For Galvanized Finish, Add</i>	132.18	
			<i>For &gt;10 To 20, Deduct</i>	-145.07	
			<i>For &gt;20 To 40, Deduct</i>	-290.14	
			<i>For &gt;40, Deduct</i>	-470.13	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,853.20	739.47
			<i>For Galvanized Finish, Add</i>	131.23	
			<i>For &gt;10 To 20, Deduct</i>	-146.33	
			<i>For &gt;20 To 40, Deduct</i>	-292.66	
			<i>For &gt;40, Deduct</i>	-475.96	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,150.42	684.70
			<i>For Galvanized Finish, Add</i>	143.43	
			<i>For &gt;10 To 20, Deduct</i>	-153.76	
			<i>For &gt;20 To 40, Deduct</i>	-307.52	
			<i>For &gt;40, Deduct</i>	-495.52	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,285.08	725.78
			<i>For Galvanized Finish, Add</i>	145.01	
			<i>For &gt;10 To 20, Deduct</i>	-157.13	
			<i>For &gt;20 To 40, Deduct</i>	-314.25	
			<i>For &gt;40, Deduct</i>	-507.67	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,331.76	766.87
			<i>For Galvanized Finish, Add</i>	143.94	
			<i>For &gt;10 To 20, Deduct</i>	-158.29	
			<i>For &gt;20 To 40, Deduct</i>	-316.59	
			<i>For &gt;40, Deduct</i>	-513.23	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,423.84	712.09
			<i>For Galvanized Finish, Add</i>	149.99	
			<i>For &gt;10 To 20, Deduct</i>	-160.60	
			<i>For &gt;20 To 40, Deduct</i>	-321.19	
			<i>For &gt;40, Deduct</i>	-517.39	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,512.62	753.18
			<i>For Galvanized Finish, Add</i>	150.19	
			<i>For &gt;10 To 20, Deduct</i>	-162.82	
			<i>For &gt;20 To 40, Deduct</i>	-325.63	
			<i>For &gt;40, Deduct</i>	-526.11	
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,604.83	794.26
			<i>For Galvanized Finish, Add</i>	150.49	
			<i>For &gt;10 To 20, Deduct</i>	-165.12	
			<i>For &gt;20 To 40, Deduct</i>	-330.24	
			<i>For &gt;40, Deduct</i>	-535.08	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,848.64	438.21
			<i>For Galvanized Finish, Add</i>	89.17	
			<i>For &gt;10 To 20, Deduct</i>	-96.22	
			<i>For &gt;20 To 40, Deduct</i>	-192.43	
			<i>For &gt;40, Deduct</i>	-310.56	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,356.54	492.99
			<i>For Galvanized Finish, Add</i>	101.12	
			<i>For &gt;10 To 20, Deduct</i>	-108.91	
			<i>For &gt;20 To 40, Deduct</i>	-217.83	
			<i>For &gt;40, Deduct</i>	-351.39	
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,466.77	520.37
			<i>For Galvanized Finish, Add</i>	102.78	
			<i>For &gt;10 To 20, Deduct</i>	-111.67	
			<i>For &gt;20 To 40, Deduct</i>	-223.34	
			<i>For &gt;40, Deduct</i>	-361.03	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 56</b>	<b>Exterior Lighting</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base .....	5,372.32	547.76
		<i>For Galvanized Finish, Add</i>	128.30	
		<i>For &gt;10 To 20, Deduct</i>	-134.31	
		<i>For &gt;20 To 40, Deduct</i>	-268.62	
		<i>For &gt;40, Deduct</i>	-430.31	
<b>26 56 13 00-0069</b>		<b>Round Tapered, Steel Roadway Light Poles With Truss Style Arms</b> <small>(26 56 13 00-0004)</small>		
<b>26 56 13 00-0070</b>		<b>Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm</b> <small>(26 56 13 00-0069)</small>		
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base .....	5,038.42	438.21
		<i>For Galvanized Finish, Add</i>	124.86	
		<i>For &gt;10 To 20, Deduct</i>	-125.96	
		<i>For &gt;20 To 40, Deduct</i>	-251.92	
		<i>For &gt;40, Deduct</i>	-399.79	
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base .....	5,089.43	438.21
		<i>For Galvanized Finish, Add</i>	126.39	
		<i>For &gt;10 To 20, Deduct</i>	-127.24	
		<i>For &gt;20 To 40, Deduct</i>	-254.47	
		<i>For &gt;40, Deduct</i>	-403.62	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base .....	5,112.70	438.21
		<i>For Galvanized Finish, Add</i>	127.09	
		<i>For &gt;10 To 20, Deduct</i>	-127.82	
		<i>For &gt;20 To 40, Deduct</i>	-255.64	
		<i>For &gt;40, Deduct</i>	-405.36	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base .....	5,198.98	492.99
		<i>For Galvanized Finish, Add</i>	126.39	
		<i>For &gt;10 To 20, Deduct</i>	-129.97	
		<i>For &gt;20 To 40, Deduct</i>	-259.95	
		<i>For &gt;40, Deduct</i>	-414.57	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base .....	5,207.88	492.99
		<i>For Galvanized Finish, Add</i>	126.66	
		<i>For &gt;10 To 20, Deduct</i>	-130.20	
		<i>For &gt;20 To 40, Deduct</i>	-260.39	
		<i>For &gt;40, Deduct</i>	-415.24	
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base .....	5,299.85	492.99
		<i>For Galvanized Finish, Add</i>	129.42	
		<i>For &gt;10 To 20, Deduct</i>	-132.50	
		<i>For &gt;20 To 40, Deduct</i>	-264.99	
		<i>For &gt;40, Deduct</i>	-422.14	
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base .....	5,283.99	520.37
		<i>For Galvanized Finish, Add</i>	127.30	
		<i>For &gt;10 To 20, Deduct</i>	-132.10	
		<i>For &gt;20 To 40, Deduct</i>	-264.20	
		<i>For &gt;40, Deduct</i>	-422.32	
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base .....	5,337.85	520.37
		<i>For Galvanized Finish, Add</i>	128.91	
		<i>For &gt;10 To 20, Deduct</i>	-133.45	
		<i>For &gt;20 To 40, Deduct</i>	-266.89	
		<i>For &gt;40, Deduct</i>	-426.36	
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base .....	5,620.26	520.37
		<i>For Galvanized Finish, Add</i>	137.39	
		<i>For &gt;10 To 20, Deduct</i>	-140.51	
		<i>For &gt;20 To 40, Deduct</i>	-281.01	
		<i>For &gt;40, Deduct</i>	-447.54	
<b>26 56 13 00-0080</b>		<b>Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms</b> <small>(26 56 13 00-0069)</small>		
26 56 13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base .....	6,614.48	547.76
		<i>For Galvanized Finish, Add</i>	165.57	
		<i>For &gt;10 To 20, Deduct</i>	-165.36	
		<i>For &gt;20 To 40, Deduct</i>	-330.72	
		<i>For &gt;40, Deduct</i>	-523.47	
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base .....	6,718.08	575.15
		<i>For Galvanized Finish, Add</i>	167.03	
		<i>For &gt;10 To 20, Deduct</i>	-167.95	
		<i>For &gt;20 To 40, Deduct</i>	-335.90	
		<i>For &gt;40, Deduct</i>	-532.61	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0083	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,964.55	602.54
			<i>For Galvanized Finish, Add</i>	172.78	
			<i>For &gt;10 To 20, Deduct</i>	-174.11	
			<i>For &gt;20 To 40, Deduct</i>	-348.23	
			<i>For &gt;40, Deduct</i>	-552.47	
26 56 13 00-0084	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,695.72	602.54
			<i>For Galvanized Finish, Add</i>	164.72	
			<i>For &gt;10 To 20, Deduct</i>	-167.39	
			<i>For &gt;20 To 40, Deduct</i>	-334.79	
			<i>For &gt;40, Deduct</i>	-532.31	
26 56 13 00-0085	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,002.79	629.93
			<i>For Galvanized Finish, Add</i>	172.29	
			<i>For &gt;10 To 20, Deduct</i>	-175.07	
			<i>For &gt;20 To 40, Deduct</i>	-350.14	
			<i>For &gt;40, Deduct</i>	-556.71	
26 56 13 00-0086	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,181.71	657.32
			<i>For Galvanized Finish, Add</i>	176.01	
			<i>For &gt;10 To 20, Deduct</i>	-179.54	
			<i>For &gt;20 To 40, Deduct</i>	-359.09	
			<i>For &gt;40, Deduct</i>	-571.49	
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,891.43	629.93
			<i>For Galvanized Finish, Add</i>	168.95	
			<i>For &gt;10 To 20, Deduct</i>	-172.29	
			<i>For &gt;20 To 40, Deduct</i>	-344.57	
			<i>For &gt;40, Deduct</i>	-548.35	
26 56 13 00-0088	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,306.09	657.32
			<i>For Galvanized Finish, Add</i>	179.74	
			<i>For &gt;10 To 20, Deduct</i>	-182.65	
			<i>For &gt;20 To 40, Deduct</i>	-365.30	
			<i>For &gt;40, Deduct</i>	-580.82	
26 56 13 00-0089	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,545.71	684.70
			<i>For Galvanized Finish, Add</i>	165.29	
			<i>For &gt;10 To 20, Deduct</i>	-188.64	
			<i>For &gt;20 To 40, Deduct</i>	-377.29	
			<i>For &gt;40, Deduct</i>	-600.16	
26 56 13 00-0090			<b>Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0002)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091			<b>Round Tapered, Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0090)</small>		
26 56 13 00-0092			<b>Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms</b> <small>(26 56 13 00-0091)</small>		
26 56 13 00-0093			<b>Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm</b> <small>(26 56 13 00-0092)</small>		
26 56 13 00-0094	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,324.88	328.66
			<i>For &gt;10 To 20, Deduct</i>	-58.12	
			<i>For &gt;20 To 40, Deduct</i>	-116.24	
			<i>For &gt;40, Deduct</i>	-190.80	
26 56 13 00-0095	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,345.07	328.66
			<i>For &gt;10 To 20, Deduct</i>	-58.63	
			<i>For &gt;20 To 40, Deduct</i>	-117.25	
			<i>For &gt;40, Deduct</i>	-192.31	
26 56 13 00-0096	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,848.69	438.21
			<i>For &gt;10 To 20, Deduct</i>	-71.22	
			<i>For &gt;20 To 40, Deduct</i>	-142.43	
			<i>For &gt;40, Deduct</i>	-235.56	
26 56 13 00-0097	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,886.83	438.21
			<i>For &gt;10 To 20, Deduct</i>	-72.17	
			<i>For &gt;20 To 40, Deduct</i>	-144.34	
			<i>For &gt;40, Deduct</i>	-238.42	
26 56 13 00-0098	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	2,921.91	438.21
			<i>For &gt;10 To 20, Deduct</i>	-73.05	
			<i>For &gt;20 To 40, Deduct</i>	-146.10	
			<i>For &gt;40, Deduct</i>	-241.05	
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,270.31	492.99
			<i>For &gt;10 To 20, Deduct</i>	-81.76	
			<i>For &gt;20 To 40, Deduct</i>	-163.52	
			<i>For &gt;40, Deduct</i>	-269.92	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0100	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....	3,302.49	492.99
			<i>For &gt;10 To 20, Deduct</i>	-82.56	
			<i>For &gt;20 To 40, Deduct</i>	-165.12	
			<i>For &gt;40, Deduct</i>	-272.34	
26 56	13 00-0101	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....	3,338.48	492.99
			<i>For &gt;10 To 20, Deduct</i>	-83.46	
			<i>For &gt;20 To 40, Deduct</i>	-166.92	
			<i>For &gt;40, Deduct</i>	-275.04	
26 56	13 00-0102	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....	3,834.22	520.37
			<i>For &gt;10 To 20, Deduct</i>	-95.86	
			<i>For &gt;20 To 40, Deduct</i>	-191.71	
			<i>For &gt;40, Deduct</i>	-313.59	
26 56	13 00-0103	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....	3,866.32	520.37
			<i>For &gt;10 To 20, Deduct</i>	-96.66	
			<i>For &gt;20 To 40, Deduct</i>	-193.32	
			<i>For &gt;40, Deduct</i>	-315.99	
26 56	13 00-0104	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....	3,893.21	520.37
			<i>For &gt;10 To 20, Deduct</i>	-97.33	
			<i>For &gt;20 To 40, Deduct</i>	-194.66	
			<i>For &gt;40, Deduct</i>	-318.01	
<b>26 56</b>	<b>13 00-0105</b>		<b>Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
26 56	13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....	2,663.60	383.43
			<i>For &gt;10 To 20, Deduct</i>	-66.59	
			<i>For &gt;20 To 40, Deduct</i>	-133.18	
			<i>For &gt;40, Deduct</i>	-218.94	
26 56	13 00-0107	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....	2,861.42	383.43
			<i>For &gt;10 To 20, Deduct</i>	-71.54	
			<i>For &gt;20 To 40, Deduct</i>	-143.07	
			<i>For &gt;40, Deduct</i>	-233.78	
26 56	13 00-0108	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....	2,954.74	410.82
			<i>For &gt;10 To 20, Deduct</i>	-73.87	
			<i>For &gt;20 To 40, Deduct</i>	-147.74	
			<i>For &gt;40, Deduct</i>	-242.15	
26 56	13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....	3,176.57	492.99
			<i>For &gt;10 To 20, Deduct</i>	-79.41	
			<i>For &gt;20 To 40, Deduct</i>	-158.83	
			<i>For &gt;40, Deduct</i>	-262.89	
26 56	13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....	3,329.88	506.68
			<i>For &gt;10 To 20, Deduct</i>	-83.25	
			<i>For &gt;20 To 40, Deduct</i>	-166.49	
			<i>For &gt;40, Deduct</i>	-275.08	
26 56	13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....	3,551.28	520.37
			<i>For &gt;10 To 20, Deduct</i>	-88.78	
			<i>For &gt;20 To 40, Deduct</i>	-177.56	
			<i>For &gt;40, Deduct</i>	-292.36	
26 56	13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....	3,667.53	547.76
			<i>For &gt;10 To 20, Deduct</i>	-91.69	
			<i>For &gt;20 To 40, Deduct</i>	-183.38	
			<i>For &gt;40, Deduct</i>	-302.45	
26 56	13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....	3,811.74	561.45
			<i>For &gt;10 To 20, Deduct</i>	-95.29	
			<i>For &gt;20 To 40, Deduct</i>	-190.59	
			<i>For &gt;40, Deduct</i>	-313.95	
26 56	13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....	3,987.87	575.15
			<i>For &gt;10 To 20, Deduct</i>	-99.70	
			<i>For &gt;20 To 40, Deduct</i>	-199.39	
			<i>For &gt;40, Deduct</i>	-327.85	
26 56	13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....	4,162.85	575.15
			<i>For &gt;10 To 20, Deduct</i>	-104.07	
			<i>For &gt;20 To 40, Deduct</i>	-208.14	
			<i>For &gt;40, Deduct</i>	-340.97	
26 56	13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....	4,554.43	588.85
			<i>For &gt;10 To 20, Deduct</i>	-113.86	
			<i>For &gt;20 To 40, Deduct</i>	-227.72	
			<i>For &gt;40, Deduct</i>	-371.02	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....	5,009.95	602.54
			<i>For &gt;10 To 20, Deduct</i>	-125.25	
			<i>For &gt;20 To 40, Deduct</i>	-250.50	
			<i>For &gt;40, Deduct</i>	-405.87	
<b>26 56 13 00-0118</b>			<b>Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
26 56 13 00-0119	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....	3,091.59	438.21
			<i>For &gt;10 To 20, Deduct</i>	-77.29	
			<i>For &gt;20 To 40, Deduct</i>	-154.58	
			<i>For &gt;40, Deduct</i>	-253.78	
26 56 13 00-0120	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....	3,306.38	465.60
			<i>For &gt;10 To 20, Deduct</i>	-82.66	
			<i>For &gt;20 To 40, Deduct</i>	-165.32	
			<i>For &gt;40, Deduct</i>	-271.26	
26 56 13 00-0121	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....	3,758.62	547.76
			<i>For &gt;10 To 20, Deduct</i>	-93.97	
			<i>For &gt;20 To 40, Deduct</i>	-187.93	
			<i>For &gt;40, Deduct</i>	-309.28	
26 56 13 00-0122	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....	3,919.20	575.15
			<i>For &gt;10 To 20, Deduct</i>	-97.98	
			<i>For &gt;20 To 40, Deduct</i>	-195.96	
			<i>For &gt;40, Deduct</i>	-322.70	
26 56 13 00-0123	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....	4,104.44	602.54
			<i>For &gt;10 To 20, Deduct</i>	-102.61	
			<i>For &gt;20 To 40, Deduct</i>	-205.22	
			<i>For &gt;40, Deduct</i>	-337.96	
26 56 13 00-0124	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....	4,250.32	629.93
			<i>For &gt;10 To 20, Deduct</i>	-106.26	
			<i>For &gt;20 To 40, Deduct</i>	-212.52	
			<i>For &gt;40, Deduct</i>	-350.27	
26 56 13 00-0125	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....	4,439.78	629.93
			<i>For &gt;10 To 20, Deduct</i>	-110.99	
			<i>For &gt;20 To 40, Deduct</i>	-221.99	
			<i>For &gt;40, Deduct</i>	-364.48	
26 56 13 00-0126	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....	4,830.77	657.32
			<i>For &gt;10 To 20, Deduct</i>	-120.77	
			<i>For &gt;20 To 40, Deduct</i>	-241.54	
			<i>For &gt;40, Deduct</i>	-395.17	
26 56 13 00-0127	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base .....	6,936.38	684.70
			<i>For &gt;10 To 20, Deduct</i>	-173.41	
			<i>For &gt;20 To 40, Deduct</i>	-346.82	
			<i>For &gt;40, Deduct</i>	-554.46	
<b>26 56 13 00-0128</b>			<b>Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
26 56 13 00-0129	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base .....	3,200.64	492.99
			<i>For &gt;10 To 20, Deduct</i>	-80.02	
			<i>For &gt;20 To 40, Deduct</i>	-160.03	
			<i>For &gt;40, Deduct</i>	-264.70	
26 56 13 00-0130	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base .....	3,321.77	492.99
			<i>For &gt;10 To 20, Deduct</i>	-83.04	
			<i>For &gt;20 To 40, Deduct</i>	-166.09	
			<i>For &gt;40, Deduct</i>	-273.78	
26 56 13 00-0131	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base .....	4,111.97	602.54
			<i>For &gt;10 To 20, Deduct</i>	-102.80	
			<i>For &gt;20 To 40, Deduct</i>	-205.60	
			<i>For &gt;40, Deduct</i>	-338.52	
26 56 13 00-0132	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base .....	4,452.35	643.62
			<i>For &gt;10 To 20, Deduct</i>	-111.31	
			<i>For &gt;20 To 40, Deduct</i>	-222.62	
			<i>For &gt;40, Deduct</i>	-366.11	
26 56 13 00-0133	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base .....	4,644.71	657.32
			<i>For &gt;10 To 20, Deduct</i>	-116.12	
			<i>For &gt;20 To 40, Deduct</i>	-232.24	
			<i>For &gt;40, Deduct</i>	-381.22	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0134	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,958.27	698.40
			<i>For &gt;10 To 20, Deduct</i>	-123.96	
			<i>For &gt;20 To 40, Deduct</i>	-247.91	
			<i>For &gt;40, Deduct</i>	-406.79	
26 56 13 00-0135	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,891.50	684.70
			<i>For &gt;10 To 20, Deduct</i>	-122.29	
			<i>For &gt;20 To 40, Deduct</i>	-244.58	
			<i>For &gt;40, Deduct</i>	-401.10	
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,566.62	725.78
			<i>For &gt;10 To 20, Deduct</i>	-139.17	
			<i>For &gt;20 To 40, Deduct</i>	-278.33	
			<i>For &gt;40, Deduct</i>	-453.79	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,163.21	766.87
			<i>For &gt;10 To 20, Deduct</i>	-154.08	
			<i>For &gt;20 To 40, Deduct</i>	-308.16	
			<i>For &gt;40, Deduct</i>	-500.58	
26 56 13 00-0138			Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0139			Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0138)</small>		
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	3,409.12	438.21
			<i>For &gt;10 To 20, Deduct</i>	-85.23	
			<i>For &gt;20 To 40, Deduct</i>	-170.46	
			<i>For &gt;40, Deduct</i>	-277.59	
26 56 13 00-0141	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	3,436.09	438.21
			<i>For &gt;10 To 20, Deduct</i>	-85.90	
			<i>For &gt;20 To 40, Deduct</i>	-171.80	
			<i>For &gt;40, Deduct</i>	-279.62	
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	3,505.01	438.21
			<i>For &gt;10 To 20, Deduct</i>	-87.63	
			<i>For &gt;20 To 40, Deduct</i>	-175.25	
			<i>For &gt;40, Deduct</i>	-284.79	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	3,608.42	438.21
			<i>For &gt;10 To 20, Deduct</i>	-90.21	
			<i>For &gt;20 To 40, Deduct</i>	-180.42	
			<i>For &gt;40, Deduct</i>	-292.54	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	3,838.43	492.99
			<i>For &gt;10 To 20, Deduct</i>	-95.96	
			<i>For &gt;20 To 40, Deduct</i>	-191.92	
			<i>For &gt;40, Deduct</i>	-312.53	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	3,899.24	492.99
			<i>For &gt;10 To 20, Deduct</i>	-97.48	
			<i>For &gt;20 To 40, Deduct</i>	-194.96	
			<i>For &gt;40, Deduct</i>	-317.09	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	3,964.10	492.99
			<i>For &gt;10 To 20, Deduct</i>	-99.10	
			<i>For &gt;20 To 40, Deduct</i>	-198.21	
			<i>For &gt;40, Deduct</i>	-321.96	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,355.35	492.99
			<i>For &gt;10 To 20, Deduct</i>	-108.88	
			<i>For &gt;20 To 40, Deduct</i>	-217.77	
			<i>For &gt;40, Deduct</i>	-351.30	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	4,171.44	520.37
			<i>For &gt;10 To 20, Deduct</i>	-104.29	
			<i>For &gt;20 To 40, Deduct</i>	-208.57	
			<i>For &gt;40, Deduct</i>	-338.88	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,673.46	520.37
			<i>For &gt;10 To 20, Deduct</i>	-116.84	
			<i>For &gt;20 To 40, Deduct</i>	-233.67	
			<i>For &gt;40, Deduct</i>	-376.53	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,722.36	520.37
			<i>For &gt;10 To 20, Deduct</i>	-118.06	
			<i>For &gt;20 To 40, Deduct</i>	-236.12	
			<i>For &gt;40, Deduct</i>	-380.20	
26 56 13 00-0151	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	5,032.77	520.37
			<i>For &gt;10 To 20, Deduct</i>	-125.62	
			<i>For &gt;20 To 40, Deduct</i>	-251.64	
			<i>For &gt;40, Deduct</i>	-403.48	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0152	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,315.88	520.37
			<i>For &gt;10 To 20, Deduct</i>	-132.90	
			<i>For &gt;20 To 40, Deduct</i>	-265.79	
			<i>For &gt;40, Deduct</i>	-424.71	
<b>26 56 13 00-0153</b>			<b>Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms</b> <small>(26 56 13 00-0138)</small>		
26 56 13 00-0154	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,425.61	547.76
			<i>For &gt;10 To 20, Deduct</i>	-110.64	
			<i>For &gt;20 To 40, Deduct</i>	-221.28	
			<i>For &gt;40, Deduct</i>	-359.31	
26 56 13 00-0155	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	4,549.29	575.15
			<i>For &gt;10 To 20, Deduct</i>	-113.73	
			<i>For &gt;20 To 40, Deduct</i>	-227.46	
			<i>For &gt;40, Deduct</i>	-369.95	
26 56 13 00-0156	EA		25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	4,648.41	602.54
			<i>For &gt;10 To 20, Deduct</i>	-116.21	
			<i>For &gt;20 To 40, Deduct</i>	-232.42	
			<i>For &gt;40, Deduct</i>	-378.76	
26 56 13 00-0157	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,766.55	602.54
			<i>For &gt;10 To 20, Deduct</i>	-119.16	
			<i>For &gt;20 To 40, Deduct</i>	-238.33	
			<i>For &gt;40, Deduct</i>	-387.62	
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,180.57	629.93
			<i>For &gt;10 To 20, Deduct</i>	-129.51	
			<i>For &gt;20 To 40, Deduct</i>	-259.03	
			<i>For &gt;40, Deduct</i>	-420.04	
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,944.11	657.32
			<i>For &gt;10 To 20, Deduct</i>	-148.60	
			<i>For &gt;20 To 40, Deduct</i>	-297.21	
			<i>For &gt;40, Deduct</i>	-478.67	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,749.02	629.93
			<i>For &gt;10 To 20, Deduct</i>	-143.73	
			<i>For &gt;20 To 40, Deduct</i>	-287.45	
			<i>For &gt;40, Deduct</i>	-462.67	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,861.54	657.32
			<i>For &gt;10 To 20, Deduct</i>	-146.54	
			<i>For &gt;20 To 40, Deduct</i>	-293.08	
			<i>For &gt;40, Deduct</i>	-472.48	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,128.35	684.70
			<i>For &gt;10 To 20, Deduct</i>	-178.21	
			<i>For &gt;20 To 40, Deduct</i>	-356.42	
			<i>For &gt;40, Deduct</i>	-568.86	
<b>26 56 13 00-0163</b>			<b>Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm</b> <small>(26 56 13 00-0091)</small>		
<b>26 56 13 00-0164</b>			<b>Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm</b> <small>(26 56 13 00-0163)</small>		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	2,796.29	328.66
			<i>For &gt;10 To 20, Deduct</i>	-69.91	
			<i>For &gt;20 To 40, Deduct</i>	-139.81	
			<i>For &gt;40, Deduct</i>	-226.15	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	2,872.49	328.66
			<i>For &gt;10 To 20, Deduct</i>	-71.81	
			<i>For &gt;20 To 40, Deduct</i>	-143.62	
			<i>For &gt;40, Deduct</i>	-231.87	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	2,948.85	328.66
			<i>For &gt;10 To 20, Deduct</i>	-73.72	
			<i>For &gt;20 To 40, Deduct</i>	-147.44	
			<i>For &gt;40, Deduct</i>	-237.60	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,326.97	438.21
			<i>For &gt;10 To 20, Deduct</i>	-83.17	
			<i>For &gt;20 To 40, Deduct</i>	-166.35	
			<i>For &gt;40, Deduct</i>	-271.43	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,385.04	438.21
			<i>For &gt;10 To 20, Deduct</i>	-84.63	
			<i>For &gt;20 To 40, Deduct</i>	-169.25	
			<i>For &gt;40, Deduct</i>	-275.79	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0170	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,448.50	438.21
		<i>For &gt;10 To 20, Deduct</i>	-86.21	
		<i>For &gt;20 To 40, Deduct</i>	-172.43	
		<i>For &gt;40, Deduct</i>	-280.55	
26 56 13 00-0171	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,754.87	492.99
		<i>For &gt;10 To 20, Deduct</i>	-93.87	
		<i>For &gt;20 To 40, Deduct</i>	-187.74	
		<i>For &gt;40, Deduct</i>	-306.26	
26 56 13 00-0172	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,833.72	492.99
		<i>For &gt;10 To 20, Deduct</i>	-95.84	
		<i>For &gt;20 To 40, Deduct</i>	-191.69	
		<i>For &gt;40, Deduct</i>	-312.18	
26 56 13 00-0173	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,845.55	492.99
		<i>For &gt;10 To 20, Deduct</i>	-96.14	
		<i>For &gt;20 To 40, Deduct</i>	-192.28	
		<i>For &gt;40, Deduct</i>	-313.07	
26 56 13 00-0174	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,090.20	520.37
		<i>For &gt;10 To 20, Deduct</i>	-102.26	
		<i>For &gt;20 To 40, Deduct</i>	-204.51	
		<i>For &gt;40, Deduct</i>	-332.78	
26 56 13 00-0175	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,124.78	520.37
		<i>For &gt;10 To 20, Deduct</i>	-103.12	
		<i>For &gt;20 To 40, Deduct</i>	-206.24	
		<i>For &gt;40, Deduct</i>	-335.38	
26 56 13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,205.86	520.37
		<i>For &gt;10 To 20, Deduct</i>	-105.15	
		<i>For &gt;20 To 40, Deduct</i>	-210.29	
		<i>For &gt;40, Deduct</i>	-341.46	
26 56 13 00-0177		<b>Area Light Poles</b> <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56 13 00-0178		<b>Steel Area Light Poles</b> <small>(26 56 13 00-0177)</small> Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179		<b>Round Straight, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>		
26 56 13 00-0180		<b>Round Straight, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0179)</small>		
26 56 13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	855.42	191.72
		<i>For Galvanized Finish, Add</i>	14.16	
		<i>For &gt;10 To 20, Deduct</i>	-28.47	
		<i>For &gt;20 To 40, Deduct</i>	-52.21	
		<i>For &gt;40, Deduct</i>	-109.14	
26 56 13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	936.35	219.10
		<i>For Galvanized Finish, Add</i>	14.94	
		<i>For &gt;10 To 20, Deduct</i>	-30.88	
		<i>For &gt;20 To 40, Deduct</i>	-56.78	
		<i>For &gt;40, Deduct</i>	-118.54	
26 56 13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,047.35	246.49
		<i>For Galvanized Finish, Add</i>	16.63	
		<i>For &gt;10 To 20, Deduct</i>	-34.50	
		<i>For &gt;20 To 40, Deduct</i>	-63.45	
		<i>For &gt;40, Deduct</i>	-132.45	
26 56 13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,160.96	273.88
		<i>For Galvanized Finish, Add</i>	18.40	
		<i>For &gt;10 To 20, Deduct</i>	-38.22	
		<i>For &gt;20 To 40, Deduct</i>	-70.31	
		<i>For &gt;40, Deduct</i>	-146.76	
26 56 13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,241.89	301.27
		<i>For Galvanized Finish, Add</i>	19.18	
		<i>For &gt;10 To 20, Deduct</i>	-40.64	
		<i>For &gt;20 To 40, Deduct</i>	-74.88	
		<i>For &gt;40, Deduct</i>	-156.16	
26 56 13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,316.28	328.66
		<i>For Galvanized Finish, Add</i>	19.77	
		<i>For &gt;10 To 20, Deduct</i>	-42.79	
		<i>For &gt;20 To 40, Deduct</i>	-78.99	
		<i>For &gt;40, Deduct</i>	-164.58	
26 56 13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	889.42	191.72
		<i>For Galvanized Finish, Add</i>	15.18	
		<i>For &gt;10 To 20, Deduct</i>	-29.83	
		<i>For &gt;20 To 40, Deduct</i>	-54.59	
		<i>For &gt;40, Deduct</i>	-114.24	
26 56 13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	971.65	219.10
		<i>For Galvanized Finish, Add</i>	16.00	
		<i>For &gt;10 To 20, Deduct</i>	-32.29	
		<i>For &gt;20 To 40, Deduct</i>	-59.25	
		<i>For &gt;40, Deduct</i>	-123.84	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0189	EA		14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,117.96	246.49
			<i>For Galvanized Finish, Add</i>	18.75	
			<i>For &gt;10 To 20, Deduct</i>	-37.32	
			<i>For &gt;20 To 40, Deduct</i>	-68.40	
			<i>For &gt;40, Deduct</i>	-143.04	
26 56 13 00-0190	EA		16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,206.72	273.88
			<i>For Galvanized Finish, Add</i>	19.77	
			<i>For &gt;10 To 20, Deduct</i>	-40.05	
			<i>For &gt;20 To 40, Deduct</i>	-73.52	
			<i>For &gt;40, Deduct</i>	-153.62	
26 56 13 00-0191	EA		18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,291.57	301.27
			<i>For Galvanized Finish, Add</i>	20.67	
			<i>For &gt;10 To 20, Deduct</i>	-42.62	
			<i>For &gt;20 To 40, Deduct</i>	-78.36	
			<i>For &gt;40, Deduct</i>	-163.61	
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,363.35	328.66
			<i>For Galvanized Finish, Add</i>	21.18	
			<i>For &gt;10 To 20, Deduct</i>	-44.67	
			<i>For &gt;20 To 40, Deduct</i>	-82.29	
			<i>For &gt;40, Deduct</i>	-171.64	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,630.82	438.21
			<i>For Galvanized Finish, Add</i>	22.63	
			<i>For &gt;10 To 20, Deduct</i>	-52.09	
			<i>For &gt;20 To 40, Deduct</i>	-96.63	
			<i>For &gt;40, Deduct</i>	-200.80	
26 56 13 00-0194	EA		10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	889.42	191.72
			<i>For Galvanized Finish, Add</i>	15.18	
			<i>For &gt;10 To 20, Deduct</i>	-29.83	
			<i>For &gt;20 To 40, Deduct</i>	-54.59	
			<i>For &gt;40, Deduct</i>	-114.24	
26 56 13 00-0195	EA		12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	975.58	219.10
			<i>For Galvanized Finish, Add</i>	16.12	
			<i>For &gt;10 To 20, Deduct</i>	-32.45	
			<i>For &gt;20 To 40, Deduct</i>	-59.53	
			<i>For &gt;40, Deduct</i>	-124.43	
26 56 13 00-0196	EA		14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,138.88	246.49
			<i>For Galvanized Finish, Add</i>	19.38	
			<i>For &gt;10 To 20, Deduct</i>	-38.16	
			<i>For &gt;20 To 40, Deduct</i>	-69.86	
			<i>For &gt;40, Deduct</i>	-146.18	
26 56 13 00-0197	EA		16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,210.64	273.88
			<i>For Galvanized Finish, Add</i>	19.89	
			<i>For &gt;10 To 20, Deduct</i>	-40.21	
			<i>For &gt;20 To 40, Deduct</i>	-73.79	
			<i>For &gt;40, Deduct</i>	-154.21	
26 56 13 00-0198	EA		18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,291.57	301.27
			<i>For Galvanized Finish, Add</i>	20.67	
			<i>For &gt;10 To 20, Deduct</i>	-42.62	
			<i>For &gt;20 To 40, Deduct</i>	-78.36	
			<i>For &gt;40, Deduct</i>	-163.61	
26 56 13 00-0199	EA		20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,363.35	328.66
			<i>For Galvanized Finish, Add</i>	21.18	
			<i>For &gt;10 To 20, Deduct</i>	-44.67	
			<i>For &gt;20 To 40, Deduct</i>	-82.29	
			<i>For &gt;40, Deduct</i>	-171.64	
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,667.43	438.21
			<i>For Galvanized Finish, Add</i>	23.73	
			<i>For &gt;10 To 20, Deduct</i>	-53.55	
			<i>For &gt;20 To 40, Deduct</i>	-99.19	
			<i>For &gt;40, Deduct</i>	-206.29	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,844.97	492.99
			<i>For Galvanized Finish, Add</i>	25.77	
			<i>For &gt;10 To 20, Deduct</i>	-59.01	
			<i>For &gt;20 To 40, Deduct</i>	-109.43	
			<i>For &gt;40, Deduct</i>	-227.45	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,447.03	328.66
			<i>For Galvanized Finish, Add</i>	23.69	
			<i>For &gt;10 To 20, Deduct</i>	-48.02	
			<i>For &gt;20 To 40, Deduct</i>	-88.15	
			<i>For &gt;40, Deduct</i>	-184.19	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,684.43	438.21
			<i>For Galvanized Finish, Add</i>	24.24	
			<i>For &gt;10 To 20, Deduct</i>	-54.23	
			<i>For &gt;20 To 40, Deduct</i>	-100.38	
			<i>For &gt;40, Deduct</i>	-208.84	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,877.66	492.99
			<i>For Galvanized Finish, Add</i>	26.75	
			<i>For &gt;10 To 20, Deduct</i>	-60.32	
			<i>For &gt;20 To 40, Deduct</i>	-111.72	
			<i>For &gt;40, Deduct</i>	-232.35	

26 56 13 00-0205 Round Tapered, Steel Area Light Poles (26 56 13 00-0178)

26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0207	EA	20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,742.51 32.56 -59.84 -108.83 -228.51	328.66
26 56	13 00-0208	EA	20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,783.04 33.77 -61.46 -111.67 -234.59	328.66
26 56	13 00-0209	EA	25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,091.05 36.44 -70.50 -128.85 -269.84	438.21
26 56	13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,174.73 38.95 -73.84 -134.70 -282.39	438.21
26 56	13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,331.35 40.36 -78.46 -143.48 -300.40	492.99
26 56	13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,471.24 44.56 -84.06 -153.27 -321.39	492.99
26 56	13 00-0213	EA	35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,554.79 45.42 -86.58 -158.02 -331.18	520.37
26 56	13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,641.08 48.01 -90.03 -164.06 -344.12	520.37
26 56	13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,847.66 54.21 -98.30 -178.52 -375.11	520.37
26 56	13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,886.75 53.74 -99.04 -180.16 -378.24	547.76
26 56	13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,923.36 54.83 -100.50 -182.72 -383.73	547.76
26 56	13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,956.74 75.98 -136.91 -248.49 -522.30	712.09
26 56	13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,168.00 75.74 -142.07 -258.89 -543.04	821.64
26 56	13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,742.17 55.97 -96.54 -174.42 -367.50	438.21
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,110.59 63.74 -109.63 -198.02 -417.29	492.99
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,591.47 74.88 -127.23 -229.49 -483.94	547.76
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,364.67 88.21 -153.22 -277.04 -583.49	712.09



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0224	EA		50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,088.45	821.64
			<i>For Galvanized Finish, Add</i>	103.35	
			<i>For &gt;10 To 20, Deduct</i>	-178.89	
			<i>For &gt;20 To 40, Deduct</i>	-323.33	
			<i>For &gt;40, Deduct</i>	-681.10	
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,620.58	821.64
			<i>For Galvanized Finish, Add</i>	119.32	
			<i>For &gt;10 To 20, Deduct</i>	-200.17	
			<i>For &gt;20 To 40, Deduct</i>	-360.57	
			<i>For &gt;40, Deduct</i>	-760.92	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,398.73	821.64
			<i>For Galvanized Finish, Add</i>	172.66	
			<i>For &gt;10 To 20, Deduct</i>	-271.30	
			<i>For &gt;20 To 40, Deduct</i>	-485.05	
			<i>For &gt;40, Deduct</i>	-1,027.65	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,261.65	821.64
			<i>For Galvanized Finish, Add</i>	198.55	
			<i>For &gt;10 To 20, Deduct</i>	-305.82	
			<i>For &gt;20 To 40, Deduct</i>	-545.45	
			<i>For &gt;40, Deduct</i>	-1,157.08	
<b>26 56 13 00-0228</b>			<b>Square Straight, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>		
<b>26 56 13 00-0229</b>			<b>Square Straight, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0228)</small>		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	844.96	191.72
			<i>For Galvanized Finish, Add</i>	13.85	
			<i>For &gt;10 To 20, Deduct</i>	-28.05	
			<i>For &gt;20 To 40, Deduct</i>	-51.48	
			<i>For &gt;40, Deduct</i>	-107.57	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	899.74	219.10
			<i>For Galvanized Finish, Add</i>	13.85	
			<i>For &gt;10 To 20, Deduct</i>	-29.42	
			<i>For &gt;20 To 40, Deduct</i>	-54.22	
			<i>For &gt;40, Deduct</i>	-113.05	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	976.75	246.49
			<i>For Galvanized Finish, Add</i>	14.51	
			<i>For &gt;10 To 20, Deduct</i>	-31.68	
			<i>For &gt;20 To 40, Deduct</i>	-58.51	
			<i>For &gt;40, Deduct</i>	-121.86	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,035.51	260.19
			<i>For Galvanized Finish, Add</i>	15.45	
			<i>For &gt;10 To 20, Deduct</i>	-33.61	
			<i>For &gt;20 To 40, Deduct</i>	-62.08	
			<i>For &gt;40, Deduct</i>	-129.31	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,062.90	273.88
			<i>For Galvanized Finish, Add</i>	15.45	
			<i>For &gt;10 To 20, Deduct</i>	-34.30	
			<i>For &gt;20 To 40, Deduct</i>	-63.45	
			<i>For &gt;40, Deduct</i>	-132.05	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,132.06	301.27
			<i>For Galvanized Finish, Add</i>	15.89	
			<i>For &gt;10 To 20, Deduct</i>	-36.24	
			<i>For &gt;20 To 40, Deduct</i>	-67.19	
			<i>For &gt;40, Deduct</i>	-139.68	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,198.61	328.66
			<i>For Galvanized Finish, Add</i>	16.24	
			<i>For &gt;10 To 20, Deduct</i>	-38.08	
			<i>For &gt;20 To 40, Deduct</i>	-70.76	
			<i>For &gt;40, Deduct</i>	-146.93	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,496.16	438.21
			<i>For Galvanized Finish, Add</i>	18.59	
			<i>For &gt;10 To 20, Deduct</i>	-46.70	
			<i>For &gt;20 To 40, Deduct</i>	-87.20	
			<i>For &gt;40, Deduct</i>	-180.60	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,375.12	328.66
			<i>For Galvanized Finish, Add</i>	21.53	
			<i>For &gt;10 To 20, Deduct</i>	-45.15	
			<i>For &gt;20 To 40, Deduct</i>	-83.11	
			<i>For &gt;40, Deduct</i>	-173.40	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,739.34	438.21
			<i>For Galvanized Finish, Add</i>	25.89	
			<i>For &gt;10 To 20, Deduct</i>	-56.43	
			<i>For &gt;20 To 40, Deduct</i>	-104.23	
			<i>For &gt;40, Deduct</i>	-217.08	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,991.41	492.99
			<i>For Galvanized Finish, Add</i>	30.16	
			<i>For &gt;10 To 20, Deduct</i>	-64.87	
			<i>For &gt;20 To 40, Deduct</i>	-119.68	
			<i>For &gt;40, Deduct</i>	-249.41	
26 56 13 00-0241	EA		20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,326.74	328.66
			<i>For Galvanized Finish, Add</i>	20.08	
			<i>For &gt;10 To 20, Deduct</i>	-43.21	
			<i>For &gt;20 To 40, Deduct</i>	-79.73	
			<i>For &gt;40, Deduct</i>	-166.15	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0242	EA		25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,645.21	438.21
			<i>For Galvanized Finish, Add</i>	23.06	
			<i>For &gt;10 To 20, Deduct</i>	-52.66	
			<i>For &gt;20 To 40, Deduct</i>	-97.64	
			<i>For &gt;40, Deduct</i>	-202.96	
26 56 13 00-0243	EA		30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,910.34	492.99
			<i>For Galvanized Finish, Add</i>	27.73	
			<i>For &gt;10 To 20, Deduct</i>	-61.62	
			<i>For &gt;20 To 40, Deduct</i>	-114.00	
			<i>For &gt;40, Deduct</i>	-237.25	
26 56 13 00-0244	EA		20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,492.79	328.66
			<i>For Galvanized Finish, Add</i>	25.06	
			<i>For &gt;10 To 20, Deduct</i>	-49.85	
			<i>For &gt;20 To 40, Deduct</i>	-91.35	
			<i>For &gt;40, Deduct</i>	-191.05	
26 56 13 00-0245	EA		25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,857.02	438.21
			<i>For Galvanized Finish, Add</i>	29.42	
			<i>For &gt;10 To 20, Deduct</i>	-61.13	
			<i>For &gt;20 To 40, Deduct</i>	-112.46	
			<i>For &gt;40, Deduct</i>	-234.73	
26 56 13 00-0246	EA		30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,102.54	492.99
			<i>For Galvanized Finish, Add</i>	33.50	
			<i>For &gt;10 To 20, Deduct</i>	-69.31	
			<i>For &gt;20 To 40, Deduct</i>	-127.46	
			<i>For &gt;40, Deduct</i>	-266.08	
26 56 13 00-0247	EA		35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,319.45	520.37
			<i>For Galvanized Finish, Add</i>	38.36	
			<i>For &gt;10 To 20, Deduct</i>	-77.17	
			<i>For &gt;20 To 40, Deduct</i>	-141.55	
			<i>For &gt;40, Deduct</i>	-295.88	
26 56 13 00-0248	EA		30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,360.11	492.99
			<i>For Galvanized Finish, Add</i>	41.22	
			<i>For &gt;10 To 20, Deduct</i>	-79.61	
			<i>For &gt;20 To 40, Deduct</i>	-145.49	
			<i>For &gt;40, Deduct</i>	-304.72	
26 56 13 00-0249	EA		35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,578.32	520.37
			<i>For Galvanized Finish, Add</i>	46.13	
			<i>For &gt;10 To 20, Deduct</i>	-87.52	
			<i>For &gt;20 To 40, Deduct</i>	-159.67	
			<i>For &gt;40, Deduct</i>	-334.71	
26 56 13 00-0250	EA		40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,725.93	547.76
			<i>For Galvanized Finish, Add</i>	48.91	
			<i>For &gt;10 To 20, Deduct</i>	-92.60	
			<i>For &gt;20 To 40, Deduct</i>	-168.90	
			<i>For &gt;40, Deduct</i>	-354.11	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253	EA		20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	2,825.36	328.66
			<i>For Galvanized Finish, Add</i>	65.04	
			<i>For &gt;10 To 20, Deduct</i>	-103.15	
			<i>For &gt;20 To 40, Deduct</i>	-184.63	
			<i>For &gt;40, Deduct</i>	-390.94	
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,191.87	438.21
			<i>For Galvanized Finish, Add</i>	69.46	
			<i>For &gt;10 To 20, Deduct</i>	-114.53	
			<i>For &gt;20 To 40, Deduct</i>	-205.90	
			<i>For &gt;40, Deduct</i>	-434.96	
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	4,402.83	492.99
			<i>For Galvanized Finish, Add</i>	102.51	
			<i>For &gt;10 To 20, Deduct</i>	-161.32	
			<i>For &gt;20 To 40, Deduct</i>	-288.48	
			<i>For &gt;40, Deduct</i>	-611.13	
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	2,878.21	328.66
			<i>For Galvanized Finish, Add</i>	66.63	
			<i>For &gt;10 To 20, Deduct</i>	-105.27	
			<i>For &gt;20 To 40, Deduct</i>	-188.33	
			<i>For &gt;40, Deduct</i>	-398.87	
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,499.21	438.21
			<i>For Galvanized Finish, Add</i>	78.68	
			<i>For &gt;10 To 20, Deduct</i>	-126.82	
			<i>For &gt;20 To 40, Deduct</i>	-227.42	
			<i>For &gt;40, Deduct</i>	-481.06	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	4,860.35	492.99
			<i>For Galvanized Finish, Add</i>	116.23	
			<i>For &gt;10 To 20, Deduct</i>	-179.62	
			<i>For &gt;20 To 40, Deduct</i>	-320.51	
			<i>For &gt;40, Deduct</i>	-679.75	
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	5,553.45	520.37
			<i>For Galvanized Finish, Add</i>	135.38	
			<i>For &gt;10 To 20, Deduct</i>	-206.53	
			<i>For &gt;20 To 40, Deduct</i>	-367.93	
			<i>For &gt;40, Deduct</i>	-780.98	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	6,494.08	547.76
			<i>For Galvanized Finish, Add</i>	161.96	
			<i>For &gt;10 To 20, Deduct</i>	-243.33	
			<i>For &gt;20 To 40, Deduct</i>	-432.68	
			<i>For &gt;40, Deduct</i>	-919.34	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	2,741.92	328.66
			<i>For Galvanized Finish, Add</i>	62.54	
			<i>For &gt;10 To 20, Deduct</i>	-99.82	
			<i>For &gt;20 To 40, Deduct</i>	-178.79	
			<i>For &gt;40, Deduct</i>	-378.42	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,058.37	438.21
			<i>For Galvanized Finish, Add</i>	65.46	
			<i>For &gt;10 To 20, Deduct</i>	-109.19	
			<i>For &gt;20 To 40, Deduct</i>	-196.56	
			<i>For &gt;40, Deduct</i>	-414.93	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	4,167.80	492.99
			<i>For Galvanized Finish, Add</i>	95.45	
			<i>For &gt;10 To 20, Deduct</i>	-151.92	
			<i>For &gt;20 To 40, Deduct</i>	-272.03	
			<i>For &gt;40, Deduct</i>	-575.87	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	2,837.88	328.66
			<i>For Galvanized Finish, Add</i>	65.42	
			<i>For &gt;10 To 20, Deduct</i>	-103.66	
			<i>For &gt;20 To 40, Deduct</i>	-185.51	
			<i>For &gt;40, Deduct</i>	-392.82	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,374.05	438.21
			<i>For Galvanized Finish, Add</i>	74.93	
			<i>For &gt;10 To 20, Deduct</i>	-121.82	
			<i>For &gt;20 To 40, Deduct</i>	-218.66	
			<i>For &gt;40, Deduct</i>	-462.29	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base.....	4,686.52	492.99
			<i>For Galvanized Finish, Add</i>	111.02	
			<i>For &gt;10 To 20, Deduct</i>	-172.67	
			<i>For &gt;20 To 40, Deduct</i>	-308.34	
			<i>For &gt;40, Deduct</i>	-653.68	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	2,985.29	328.66
			<i>For Galvanized Finish, Add</i>	69.84	
			<i>For &gt;10 To 20, Deduct</i>	-109.55	
			<i>For &gt;20 To 40, Deduct</i>	-195.82	
			<i>For &gt;40, Deduct</i>	-414.93	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,639.67	438.21
			<i>For Galvanized Finish, Add</i>	82.90	
			<i>For &gt;10 To 20, Deduct</i>	-132.44	
			<i>For &gt;20 To 40, Deduct</i>	-237.25	
			<i>For &gt;40, Deduct</i>	-502.13	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	4,999.42	492.99
			<i>For Galvanized Finish, Add</i>	120.40	
			<i>For &gt;10 To 20, Deduct</i>	-185.19	
			<i>For &gt;20 To 40, Deduct</i>	-330.24	
			<i>For &gt;40, Deduct</i>	-700.61	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	5,723.11	520.37
			<i>For Galvanized Finish, Add</i>	140.47	
			<i>For &gt;10 To 20, Deduct</i>	-213.31	
			<i>For &gt;20 To 40, Deduct</i>	-379.80	
			<i>For &gt;40, Deduct</i>	-806.43	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	6,584.47	547.76
			<i>For Galvanized Finish, Add</i>	164.67	
			<i>For &gt;10 To 20, Deduct</i>	-246.95	
			<i>For &gt;20 To 40, Deduct</i>	-439.00	
			<i>For &gt;40, Deduct</i>	-932.89	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,183.13	328.66
			<i>For Galvanized Finish, Add</i>	45.77	
			<i>For &gt;10 To 20, Deduct</i>	-77.47	
			<i>For &gt;20 To 40, Deduct</i>	-139.67	
			<i>For &gt;40, Deduct</i>	-294.60	
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,671.56	438.21
			<i>For Galvanized Finish, Add</i>	53.85	
			<i>For &gt;10 To 20, Deduct</i>	-93.72	
			<i>For &gt;20 To 40, Deduct</i>	-169.48	
			<i>For &gt;40, Deduct</i>	-356.91	
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,975.92	492.99
			<i>For Galvanized Finish, Add</i>	59.70	
			<i>For &gt;10 To 20, Deduct</i>	-104.25	
			<i>For &gt;20 To 40, Deduct</i>	-188.60	
			<i>For &gt;40, Deduct</i>	-397.09	
26 56 13 00-0277	EA		35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,288.27	520.37
			<i>For Galvanized Finish, Add</i>	67.43	
			<i>For &gt;10 To 20, Deduct</i>	-115.92	
			<i>For &gt;20 To 40, Deduct</i>	-209.36	
			<i>For &gt;40, Deduct</i>	-441.20	



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0278	EA 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,465.95 71.11 -122.21 -220.71 -465.12	547.76
26 56 13 00-0279	EA 20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,770.18 63.39 -100.95 -180.77 -382.66	328.66
26 56 13 00-0280	EA 25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,131.79 67.66 -112.13 -201.70 -425.95	438.21
26 56 13 00-0281	EA 30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,352.47 71.00 -119.31 -214.95 -453.57	492.99
26 56 13 00-0282	EA 30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,697.64 81.35 -133.12 -239.12 -505.35	492.99
26 56 13 00-0283	EA 35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,000.84 88.80 -144.42 -259.24 -548.09	520.37
26 56 13 00-0284	EA 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,428.38 101.63 -161.52 -289.17 -612.22	520.37
26 56 13 00-0285	EA 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,075.23 89.39 -146.58 -263.36 -556.51	547.76
26 56 13 00-0286	EA 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,127.74 120.97 -188.68 -337.03 -714.38	547.76
26 56 13 00-0287	EA 45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,847.12 102.69 -172.52 -310.81 -655.86	712.09
26 56 13 00-0288	EA 45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,564.92 124.22 -201.23 -361.06 -763.53	712.09
26 56 13 00-0289	EA 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,820.62 125.32 -208.18 -374.58 -790.93	821.64
26 56 13 00-0290	<b>Factory Accessories For Steel Area Light Poles</b> (26 56 13 00-0178)		
26 56 13 00-0291	EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	46.36	
26 56 13 00-0292	EA Extra Handhole For Steel Area Light Poles.....	68.94	
26 56 13 00-0293	EA Vibration Dampener For Steel Area Light Poles.....	70.13	
26 56 13 00-0294	<b>Aluminum Area Light Poles</b> (26 56 13 00-0177) Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295	<b>Round Straight, Aluminum Area Light Poles</b> (26 56 13 00-0294)		
26 56 13 00-0296	<b>Round Straight, Aluminum Area Light Poles, Anchor Base</b> (26 56 13 00-0295)		
26 56 13 00-0297	EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	698.37 36.97 73.94 -23.00 -42.31 -88.32	164.33



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0298	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	772.10	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	38.87	
			<i>For Black Anodized Finish, Add</i>	77.73	
			<i>For &gt;10 To 20, Deduct</i>	-25.13	
			<i>For &gt;20 To 40, Deduct</i>	-46.38	
			<i>For &gt;40, Deduct</i>	-96.64	
26 56	13 00-0299	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	850.58	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	41.24	
			<i>For Black Anodized Finish, Add</i>	82.47	
			<i>For &gt;10 To 20, Deduct</i>	-27.45	
			<i>For &gt;20 To 40, Deduct</i>	-50.78	
			<i>For &gt;40, Deduct</i>	-105.68	
26 56	13 00-0300	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	930.01	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	43.70	
			<i>For Black Anodized Finish, Add</i>	87.40	
			<i>For &gt;10 To 20, Deduct</i>	-29.81	
			<i>For &gt;20 To 40, Deduct</i>	-55.24	
			<i>For &gt;40, Deduct</i>	-114.85	
26 56	13 00-0301	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	973.50	260.19
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.31	
			<i>For Black Anodized Finish, Add</i>	90.63	
			<i>For &gt;10 To 20, Deduct</i>	-31.13	
			<i>For &gt;20 To 40, Deduct</i>	-57.74	
			<i>For &gt;40, Deduct</i>	-120.01	
26 56	13 00-0302	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,016.06	273.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	46.83	
			<i>For Black Anodized Finish, Add</i>	93.66	
			<i>For &gt;10 To 20, Deduct</i>	-32.43	
			<i>For &gt;20 To 40, Deduct</i>	-60.17	
			<i>For &gt;40, Deduct</i>	-125.02	
26 56	13 00-0303	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,072.94	273.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.52	
			<i>For Black Anodized Finish, Add</i>	105.04	
			<i>For &gt;10 To 20, Deduct</i>	-34.70	
			<i>For &gt;20 To 40, Deduct</i>	-64.15	
			<i>For &gt;40, Deduct</i>	-133.55	
26 56	13 00-0304	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,163.74	301.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.12	
			<i>For Black Anodized Finish, Add</i>	112.24	
			<i>For &gt;10 To 20, Deduct</i>	-37.51	
			<i>For &gt;20 To 40, Deduct</i>	-69.41	
			<i>For &gt;40, Deduct</i>	-144.43	
26 56	13 00-0305	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,248.86	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	59.15	
			<i>For Black Anodized Finish, Add</i>	118.31	
			<i>For &gt;10 To 20, Deduct</i>	-40.09	
			<i>For &gt;20 To 40, Deduct</i>	-74.27	
			<i>For &gt;40, Deduct</i>	-154.46	
26 56	13 00-0306	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,183.01	260.19
			<i>For Bronze Or Satin Anodized Finish, Add</i>	66.26	
			<i>For Black Anodized Finish, Add</i>	132.53	
			<i>For &gt;10 To 20, Deduct</i>	-39.51	
			<i>For &gt;20 To 40, Deduct</i>	-72.40	
			<i>For &gt;40, Deduct</i>	-151.43	
26 56	13 00-0307	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,458.36	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	80.10	
			<i>For Black Anodized Finish, Add</i>	160.21	
			<i>For &gt;10 To 20, Deduct</i>	-48.47	
			<i>For &gt;20 To 40, Deduct</i>	-88.94	
			<i>For &gt;40, Deduct</i>	-185.89	
26 56	13 00-0308	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,564.54	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	90.72	
			<i>For Black Anodized Finish, Add</i>	181.44	
			<i>For &gt;10 To 20, Deduct</i>	-52.72	
			<i>For &gt;20 To 40, Deduct</i>	-96.37	
			<i>For &gt;40, Deduct</i>	-201.82	
26 56	13 00-0309	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,883.17	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	100.68	
			<i>For Black Anodized Finish, Add</i>	201.35	
			<i>For &gt;10 To 20, Deduct</i>	-62.18	
			<i>For &gt;20 To 40, Deduct</i>	-114.29	
			<i>For &gt;40, Deduct</i>	-238.65	
26 56	13 00-0310	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,181.37	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	119.54	
			<i>For Black Anodized Finish, Add</i>	239.08	
			<i>For &gt;10 To 20, Deduct</i>	-72.47	
			<i>For &gt;20 To 40, Deduct</i>	-132.98	
			<i>For &gt;40, Deduct</i>	-277.91	
26 56	13 00-0311	EA	20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,314.27	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	65.70	
			<i>For Black Anodized Finish, Add</i>	131.39	
			<i>For &gt;10 To 20, Deduct</i>	-42.71	
			<i>For &gt;20 To 40, Deduct</i>	-78.85	
			<i>For &gt;40, Deduct</i>	-164.27	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0312	EA		20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,556.00	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	89.87	
			<i>For Black Anodized Finish, Add</i>	179.74	
			<i>For &gt;10 To 20, Deduct</i>	-52.38	
			<i>For &gt;20 To 40, Deduct</i>	-95.77	
			<i>For &gt;40, Deduct</i>	-200.53	
26 56 13 00-0313	EA		25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,868.01	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	99.16	
			<i>For Black Anodized Finish, Add</i>	198.32	
			<i>For &gt;10 To 20, Deduct</i>	-61.57	
			<i>For &gt;20 To 40, Deduct</i>	-113.23	
			<i>For &gt;40, Deduct</i>	-236.38	
26 56 13 00-0314	EA		25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,005.46	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	112.90	
			<i>For Black Anodized Finish, Add</i>	225.81	
			<i>For &gt;10 To 20, Deduct</i>	-67.07	
			<i>For &gt;20 To 40, Deduct</i>	-122.85	
			<i>For &gt;40, Deduct</i>	-257.00	
26 56 13 00-0315	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,336.84	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	135.09	
			<i>For Black Anodized Finish, Add</i>	270.17	
			<i>For &gt;10 To 20, Deduct</i>	-78.68	
			<i>For &gt;20 To 40, Deduct</i>	-143.86	
			<i>For &gt;40, Deduct</i>	-301.23	
<b>26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)</b>					
26 56 13 00-0317	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	795.07	164.33
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	69.96	
			<i>For &gt;10 To 20, Deduct</i>	-26.87	
			<i>For &gt;20 To 40, Deduct</i>	-49.08	
			<i>For &gt;40, Deduct</i>	-102.83	
26 56 13 00-0318	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	887.76	191.72
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	75.65	
			<i>For &gt;10 To 20, Deduct</i>	-29.76	
			<i>For &gt;20 To 40, Deduct</i>	-54.47	
			<i>For &gt;40, Deduct</i>	-113.99	
26 56 13 00-0319	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	976.66	219.10
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	80.77	
			<i>For &gt;10 To 20, Deduct</i>	-32.49	
			<i>For &gt;20 To 40, Deduct</i>	-59.60	
			<i>For &gt;40, Deduct</i>	-124.59	
26 56 13 00-0320	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,047.56	246.49
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	83.19	
			<i>For &gt;10 To 20, Deduct</i>	-34.51	
			<i>For &gt;20 To 40, Deduct</i>	-63.47	
			<i>For &gt;40, Deduct</i>	-132.48	
26 56 13 00-0321	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,129.82	273.88
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	87.31	
			<i>For &gt;10 To 20, Deduct</i>	-36.98	
			<i>For &gt;20 To 40, Deduct</i>	-68.13	
			<i>For &gt;40, Deduct</i>	-142.09	
26 56 13 00-0322	EA		10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	907.66	191.72
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	78.63	
			<i>For &gt;10 To 20, Deduct</i>	-30.55	
			<i>For &gt;20 To 40, Deduct</i>	-55.87	
			<i>For &gt;40, Deduct</i>	-116.98	
26 56 13 00-0323	EA		12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	994.67	219.10
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	83.47	
			<i>For &gt;10 To 20, Deduct</i>	-33.21	
			<i>For &gt;20 To 40, Deduct</i>	-60.86	
			<i>For &gt;40, Deduct</i>	-127.29	
26 56 13 00-0324	EA		14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,084.53	246.49
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	88.73	
			<i>For &gt;10 To 20, Deduct</i>	-35.99	
			<i>For &gt;20 To 40, Deduct</i>	-66.06	
			<i>For &gt;40, Deduct</i>	-138.03	
26 56 13 00-0325	EA		16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,173.43	273.88
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	93.85	
			<i>For &gt;10 To 20, Deduct</i>	-38.72	
			<i>For &gt;20 To 40, Deduct</i>	-71.18	
			<i>For &gt;40, Deduct</i>	-148.63	
26 56 13 00-0326	EA		18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,267.07	301.27
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	99.68	
			<i>For &gt;10 To 20, Deduct</i>	-41.64	
			<i>For &gt;20 To 40, Deduct</i>	-76.64	
			<i>For &gt;40, Deduct</i>	-159.93	
26 56 13 00-0327	EA		20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,355.03	328.66
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	104.66	
			<i>For &gt;10 To 20, Deduct</i>	-44.34	
			<i>For &gt;20 To 40, Deduct</i>	-81.71	
			<i>For &gt;40, Deduct</i>	-170.39	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0328	EA		12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,031.65 89.02 -34.69 -63.45 -132.84	219.10
26 56 13 00-0329	EA		14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,128.14 95.27 -37.73 -69.11 -144.57	246.49
26 56 13 00-0330	EA		16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,223.67 101.39 -40.73 -74.70 -156.16	273.88
26 56 13 00-0331	EA		18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,321.11 107.79 -43.81 -80.43 -168.04	301.27
26 56 13 00-0332	EA		16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,276.76 109.35 -42.85 -78.42 -164.13	273.88
26 56 13 00-0333	EA		20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,479.22 123.29 -49.31 -90.40 -189.02	328.66
26 56 13 00-0334	EA		12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,066.72 94.28 -36.10 -65.91 -138.10	219.10
26 56 13 00-0335	EA		14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,173.64 102.10 -39.55 -72.30 -151.40	246.49
26 56 13 00-0336	EA		16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,271.07 108.50 -42.63 -78.02 -163.27	273.88
26 56 13 00-0337	EA		18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,374.20 115.75 -45.93 -84.14 -176.00	301.27
26 56 13 00-0338	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,474.48 122.57 -49.12 -90.07 -188.31	328.66
26 56 13 00-0339	EA		16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,340.27 118.88 -45.39 -82.86 -173.65	273.88
26 56 13 00-0340	EA		18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,451.93 127.41 -49.04 -89.58 -187.66	301.27
26 56 13 00-0341	EA		20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,503.87 126.98 -50.30 -92.12 -192.71	328.66
<b>26 56 13 00-0342</b>			<b>Round Straight, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0295)</small>		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0343	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	622.74 34.89 69.77 -20.80 -38.11 -79.72	136.94
26 56 13 00-0344	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	668.14 36.69 73.37 -22.21 -40.74 -85.16	150.64

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0345	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial.....	738.19	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	40.95	
			<i>For Black Anodized Finish, Add</i>	81.91	
			<i>For &gt;10 To 20, Deduct</i>	-24.60	
			<i>For &gt;20 To 40, Deduct</i>	-45.10	
			<i>For &gt;40, Deduct</i>	-94.30	
26 56 13 00-0346	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial.....	759.99	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	43.13	
			<i>For Black Anodized Finish, Add</i>	86.27	
			<i>For &gt;10 To 20, Deduct</i>	-25.47	
			<i>For &gt;20 To 40, Deduct</i>	-46.63	
			<i>For &gt;40, Deduct</i>	-97.57	
26 56 13 00-0347	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial.....	787.48	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.88	
			<i>For Black Anodized Finish, Add</i>	91.76	
			<i>For &gt;10 To 20, Deduct</i>	-26.57	
			<i>For &gt;20 To 40, Deduct</i>	-48.55	
			<i>For &gt;40, Deduct</i>	-101.69	
26 56 13 00-0348	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	898.28	178.02
			<i>For Bronze Or Satin Anodized Finish, Add</i>	54.22	
			<i>For Black Anodized Finish, Add</i>	108.45	
			<i>For &gt;10 To 20, Deduct</i>	-30.59	
			<i>For &gt;20 To 40, Deduct</i>	-55.76	
			<i>For &gt;40, Deduct</i>	-116.94	
26 56 13 00-0349	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	960.75	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	57.73	
			<i>For Black Anodized Finish, Add</i>	115.46	
			<i>For &gt;10 To 20, Deduct</i>	-32.68	
			<i>For &gt;20 To 40, Deduct</i>	-59.58	
			<i>For &gt;40, Deduct</i>	-124.94	
26 56 13 00-0350	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,107.69	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	72.43	
			<i>For Black Anodized Finish, Add</i>	144.85	
			<i>For &gt;10 To 20, Deduct</i>	-38.56	
			<i>For &gt;20 To 40, Deduct</i>	-69.87	
			<i>For &gt;40, Deduct</i>	-146.98	
26 56 13 00-0351	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,351.11	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	91.29	
			<i>For Black Anodized Finish, Add</i>	182.58	
			<i>For &gt;10 To 20, Deduct</i>	-47.47	
			<i>For &gt;20 To 40, Deduct</i>	-85.81	
			<i>For &gt;40, Deduct</i>	-180.76	
26 56 13 00-0352	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,532.92	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	103.99	
			<i>For Black Anodized Finish, Add</i>	207.99	
			<i>For &gt;10 To 20, Deduct</i>	-53.92	
			<i>For &gt;20 To 40, Deduct</i>	-97.44	
			<i>For &gt;40, Deduct</i>	-205.29	
26 56 13 00-0353	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,706.40	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	121.34	
			<i>For Black Anodized Finish, Add</i>	242.68	
			<i>For &gt;10 To 20, Deduct</i>	-60.86	
			<i>For &gt;20 To 40, Deduct</i>	-109.59	
			<i>For &gt;40, Deduct</i>	-231.31	
26 56 13 00-0354			Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0355			Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0356	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	596.94	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	26.83	
			<i>For Black Anodized Finish, Add</i>	53.66	
			<i>For &gt;10 To 20, Deduct</i>	-18.95	
			<i>For &gt;20 To 40, Deduct</i>	-35.21	
			<i>For &gt;40, Deduct</i>	-73.11	
26 56 13 00-0357	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	673.51	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	29.01	
			<i>For Black Anodized Finish, Add</i>	58.02	
			<i>For &gt;10 To 20, Deduct</i>	-21.19	
			<i>For &gt;20 To 40, Deduct</i>	-39.48	
			<i>For &gt;40, Deduct</i>	-81.86	
26 56 13 00-0358	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	750.10	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	31.19	
			<i>For Black Anodized Finish, Add</i>	62.38	
			<i>For &gt;10 To 20, Deduct</i>	-23.43	
			<i>For &gt;20 To 40, Deduct</i>	-43.74	
			<i>For &gt;40, Deduct</i>	-90.60	
26 56 13 00-0359	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	835.21	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	34.22	
			<i>For Black Anodized Finish, Add</i>	68.44	
			<i>For &gt;10 To 20, Deduct</i>	-26.01	
			<i>For &gt;20 To 40, Deduct</i>	-48.60	
			<i>For &gt;40, Deduct</i>	-100.63	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	919.37	273.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	37.16	
			<i>For Black Anodized Finish, Add</i>	74.32	
			<i>For &gt;10 To 20, Deduct</i>	-28.56	
			<i>For &gt;20 To 40, Deduct</i>	-53.40	
			<i>For &gt;40, Deduct</i>	-110.52	
26 56	13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	698.16	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	31.47	
			<i>For Black Anodized Finish, Add</i>	62.95	
			<i>For &gt;10 To 20, Deduct</i>	-22.17	
			<i>For &gt;20 To 40, Deduct</i>	-41.20	
			<i>For &gt;40, Deduct</i>	-85.55	
26 56	13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	788.96	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	35.08	
			<i>For Black Anodized Finish, Add</i>	70.15	
			<i>For &gt;10 To 20, Deduct</i>	-24.99	
			<i>For &gt;20 To 40, Deduct</i>	-46.46	
			<i>For &gt;40, Deduct</i>	-96.43	
26 56	13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	876.92	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	38.39	
			<i>For Black Anodized Finish, Add</i>	76.79	
			<i>For &gt;10 To 20, Deduct</i>	-27.68	
			<i>For &gt;20 To 40, Deduct</i>	-51.52	
			<i>For &gt;40, Deduct</i>	-106.89	
26 56	13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,046.19	301.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.37	
			<i>For Black Anodized Finish, Add</i>	88.73	
			<i>For &gt;10 To 20, Deduct</i>	-32.81	
			<i>For &gt;20 To 40, Deduct</i>	-61.18	
			<i>For &gt;40, Deduct</i>	-126.80	
26 56	13 00-0365	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,124.67	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	46.74	
			<i>For Black Anodized Finish, Add</i>	93.47	
			<i>For &gt;10 To 20, Deduct</i>	-35.13	
			<i>For &gt;20 To 40, Deduct</i>	-65.58	
			<i>For &gt;40, Deduct</i>	-135.83	
26 56	13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	824.04	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	38.58	
			<i>For Black Anodized Finish, Add</i>	77.17	
			<i>For &gt;10 To 20, Deduct</i>	-26.39	
			<i>For &gt;20 To 40, Deduct</i>	-48.92	
			<i>For &gt;40, Deduct</i>	-101.70	
26 56	13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	917.69	246.49
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.47	
			<i>For Black Anodized Finish, Add</i>	84.94	
			<i>For &gt;10 To 20, Deduct</i>	-29.31	
			<i>For &gt;20 To 40, Deduct</i>	-54.38	
			<i>For &gt;40, Deduct</i>	-113.00	
26 56	13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,017.96	273.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	47.02	
			<i>For Black Anodized Finish, Add</i>	94.04	
			<i>For &gt;10 To 20, Deduct</i>	-32.50	
			<i>For &gt;20 To 40, Deduct</i>	-60.30	
			<i>For &gt;40, Deduct</i>	-125.31	
26 56	13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,101.18	301.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	49.86	
			<i>For Black Anodized Finish, Add</i>	99.73	
			<i>For &gt;10 To 20, Deduct</i>	-35.01	
			<i>For &gt;20 To 40, Deduct</i>	-65.03	
			<i>For &gt;40, Deduct</i>	-135.05	
26 56	13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,197.67	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	54.04	
			<i>For Black Anodized Finish, Add</i>	108.07	
			<i>For &gt;10 To 20, Deduct</i>	-38.05	
			<i>For &gt;20 To 40, Deduct</i>	-70.69	
			<i>For &gt;40, Deduct</i>	-146.78	
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,110.86	273.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.31	
			<i>For Black Anodized Finish, Add</i>	112.62	
			<i>For &gt;10 To 20, Deduct</i>	-36.22	
			<i>For &gt;20 To 40, Deduct</i>	-66.81	
			<i>For &gt;40, Deduct</i>	-139.24	
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,219.68	301.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	61.71	
			<i>For Black Anodized Finish, Add</i>	123.43	
			<i>For &gt;10 To 20, Deduct</i>	-39.75	
			<i>For &gt;20 To 40, Deduct</i>	-73.33	
			<i>For &gt;40, Deduct</i>	-152.83	
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,289.62	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	63.23	
			<i>For Black Anodized Finish, Add</i>	126.46	
			<i>For &gt;10 To 20, Deduct</i>	-41.73	
			<i>For &gt;20 To 40, Deduct</i>	-77.13	
			<i>For &gt;40, Deduct</i>	-160.58	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0374	EA		23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,483.54	383.43
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.67	
			<i>For Black Anodized Finish, Add</i>	143.33	
			<i>For &gt;10 To 20, Deduct</i>	-47.84	
			<i>For &gt;20 To 40, Deduct</i>	-88.51	
			<i>For &gt;40, Deduct</i>	-184.19	
26 56 13 00-0375	EA		25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,683.15	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	80.67	
			<i>For Black Anodized Finish, Add</i>	161.35	
			<i>For &gt;10 To 20, Deduct</i>	-54.18	
			<i>For &gt;20 To 40, Deduct</i>	-100.29	
			<i>For &gt;40, Deduct</i>	-208.65	
26 56 13 00-0376	EA		18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,312.58	301.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.00	
			<i>For Black Anodized Finish, Add</i>	142.01	
			<i>For &gt;10 To 20, Deduct</i>	-43.47	
			<i>For &gt;20 To 40, Deduct</i>	-79.83	
			<i>For &gt;40, Deduct</i>	-166.76	
26 56 13 00-0377	EA		20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,402.43	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	74.51	
			<i>For Black Anodized Finish, Add</i>	149.02	
			<i>For &gt;10 To 20, Deduct</i>	-46.24	
			<i>For &gt;20 To 40, Deduct</i>	-85.02	
			<i>For &gt;40, Deduct</i>	-177.50	
26 56 13 00-0378	EA		23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,572.65	383.43
			<i>For Bronze Or Satin Anodized Finish, Add</i>	80.58	
			<i>For Black Anodized Finish, Add</i>	161.16	
			<i>For &gt;10 To 20, Deduct</i>	-51.40	
			<i>For &gt;20 To 40, Deduct</i>	-94.75	
			<i>For &gt;40, Deduct</i>	-197.55	
26 56 13 00-0379	EA		25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,751.41	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	87.50	
			<i>For Black Anodized Finish, Add</i>	175.00	
			<i>For &gt;10 To 20, Deduct</i>	-56.91	
			<i>For &gt;20 To 40, Deduct</i>	-105.07	
			<i>For &gt;40, Deduct</i>	-218.89	
26 56 13 00-0380	EA		28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,882.97	465.60
			<i>For Bronze Or Satin Anodized Finish, Add</i>	95.18	
			<i>For Black Anodized Finish, Add</i>	190.35	
			<i>For &gt;10 To 20, Deduct</i>	-61.35	
			<i>For &gt;20 To 40, Deduct</i>	-113.18	
			<i>For &gt;40, Deduct</i>	-235.89	
26 56 13 00-0381	EA		30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,016.42	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	103.05	
			<i>For Black Anodized Finish, Add</i>	206.09	
			<i>For &gt;10 To 20, Deduct</i>	-65.87	
			<i>For &gt;20 To 40, Deduct</i>	-121.43	
			<i>For &gt;40, Deduct</i>	-253.16	
26 56 13 00-0382	EA		23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,660.82	383.43
			<i>For Bronze Or Satin Anodized Finish, Add</i>	89.40	
			<i>For Black Anodized Finish, Add</i>	178.79	
			<i>For &gt;10 To 20, Deduct</i>	-54.93	
			<i>For &gt;20 To 40, Deduct</i>	-100.92	
			<i>For &gt;40, Deduct</i>	-210.78	
26 56 13 00-0383	EA		25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,810.18	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	93.38	
			<i>For Black Anodized Finish, Add</i>	186.75	
			<i>For &gt;10 To 20, Deduct</i>	-59.26	
			<i>For &gt;20 To 40, Deduct</i>	-109.18	
			<i>For &gt;40, Deduct</i>	-227.71	
26 56 13 00-0384	EA		28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,946.49	465.60
			<i>For Bronze Or Satin Anodized Finish, Add</i>	101.53	
			<i>For Black Anodized Finish, Add</i>	203.06	
			<i>For &gt;10 To 20, Deduct</i>	-63.89	
			<i>For &gt;20 To 40, Deduct</i>	-117.63	
			<i>For &gt;40, Deduct</i>	-245.41	
26 56 13 00-0385	EA		30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,115.01	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	112.90	
			<i>For Black Anodized Finish, Add</i>	225.81	
			<i>For &gt;10 To 20, Deduct</i>	-69.81	
			<i>For &gt;20 To 40, Deduct</i>	-128.33	
			<i>For &gt;40, Deduct</i>	-267.95	
26 56 13 00-0386	EA		33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,185.06	506.68
			<i>For Bronze Or Satin Anodized Finish, Add</i>	117.17	
			<i>For Black Anodized Finish, Add</i>	234.34	
			<i>For &gt;10 To 20, Deduct</i>	-72.20	
			<i>For &gt;20 To 40, Deduct</i>	-132.69	
			<i>For &gt;40, Deduct</i>	-277.09	
26 56 13 00-0387	EA		35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,327.16	520.37
			<i>For Bronze Or Satin Anodized Finish, Add</i>	128.64	
			<i>For Black Anodized Finish, Add</i>	257.28	
			<i>For &gt;10 To 20, Deduct</i>	-77.48	
			<i>For &gt;20 To 40, Deduct</i>	-142.09	
			<i>For &gt;40, Deduct</i>	-297.04	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	862.91 42.47 84.94 -27.94 -51.64 -107.53	219.10
26 56	13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	963.19 47.02 94.04 -31.13 -57.56 -119.83	246.49
26 56	13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,067.25 51.95 103.90 -34.47 -63.75 -132.70	273.88
26 56	13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,160.90 55.84 111.67 -37.40 -69.21 -144.01	301.27
26 56	13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,253.60 59.63 119.26 -40.28 -74.61 -155.17	328.66
26 56	13 00-0393	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,170.58 62.28 124.56 -38.61 -70.99 -148.20	273.88
26 56	13 00-0394	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,282.24 67.97 135.94 -42.25 -77.71 -162.21	301.27
26 56	13 00-0395	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,364.51 70.72 141.44 -44.72 -82.37 -171.81	328.66
26 56	13 00-0396	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,553.69 78.68 157.36 -50.64 -93.42 -194.71	383.43
26 56	13 00-0397	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,748.56 87.21 174.43 -56.80 -104.87 -218.46	438.21
26 56	13 00-0398	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,767.94 100.11 200.21 -59.21 -108.42 -226.85	383.43
26 56	13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,952.38 107.60 215.19 -64.95 -119.14 -249.04	438.21
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,100.06 116.89 233.77 -70.03 -128.38 -268.45	465.60
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,231.62 124.57 249.13 -74.48 -136.49 -285.44	492.99

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0402	EA		33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,350.96	506.68
			<i>For Bronze Or Satin Anodized Finish, Add</i>	133.76	
			<i>For Black Anodized Finish, Add</i>	267.52	
			<i>For &gt;10 To 20, Deduct</i>	-78.84	
			<i>For &gt;20 To 40, Deduct</i>	-144.30	
			<i>For &gt;40, Deduct</i>	-301.98	
26 56 13 00-0403	EA		35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,455.14	520.37
			<i>For Bronze Or Satin Anodized Finish, Add</i>	141.44	
			<i>For Black Anodized Finish, Add</i>	282.88	
			<i>For &gt;10 To 20, Deduct</i>	-82.59	
			<i>For &gt;20 To 40, Deduct</i>	-151.04	
			<i>For &gt;40, Deduct</i>	-316.23	
26 56 13 00-0404	EA		37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,544.13	534.07
			<i>For Bronze Or Satin Anodized Finish, Add</i>	147.60	
			<i>For Black Anodized Finish, Add</i>	295.20	
			<i>For &gt;10 To 20, Deduct</i>	-85.74	
			<i>For &gt;20 To 40, Deduct</i>	-156.73	
			<i>For &gt;40, Deduct</i>	-328.21	
26 56 13 00-0405	EA		39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,704.25	547.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	160.87	
			<i>For Black Anodized Finish, Add</i>	321.74	
			<i>For &gt;10 To 20, Deduct</i>	-91.74	
			<i>For &gt;20 To 40, Deduct</i>	-167.39	
			<i>For &gt;40, Deduct</i>	-350.86	
26 56 13 00-0406	EA		28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,509.59	465.60
			<i>For Bronze Or Satin Anodized Finish, Add</i>	157.84	
			<i>For Black Anodized Finish, Add</i>	315.68	
			<i>For &gt;10 To 20, Deduct</i>	-86.42	
			<i>For &gt;20 To 40, Deduct</i>	-157.05	
			<i>For &gt;40, Deduct</i>	-329.88	
26 56 13 00-0407	EA		30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,705.61	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	171.96	
			<i>For Black Anodized Finish, Add</i>	343.93	
			<i>For &gt;10 To 20, Deduct</i>	-93.43	
			<i>For &gt;20 To 40, Deduct</i>	-169.67	
			<i>For &gt;40, Deduct</i>	-356.54	
26 56 13 00-0408	EA		33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,843.91	506.68
			<i>For Bronze Or Satin Anodized Finish, Add</i>	183.06	
			<i>For Black Anodized Finish, Add</i>	366.11	
			<i>For &gt;10 To 20, Deduct</i>	-98.56	
			<i>For &gt;20 To 40, Deduct</i>	-178.81	
			<i>For &gt;40, Deduct</i>	-375.92	
26 56 13 00-0409	EA		35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,949.03	520.37
			<i>For Bronze Or Satin Anodized Finish, Add</i>	190.83	
			<i>For Black Anodized Finish, Add</i>	381.66	
			<i>For &gt;10 To 20, Deduct</i>	-102.35	
			<i>For &gt;20 To 40, Deduct</i>	-185.62	
			<i>For &gt;40, Deduct</i>	-390.32	
26 56 13 00-0410	EA		37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,007.70	534.07
			<i>For Bronze Or Satin Anodized Finish, Add</i>	193.96	
			<i>For Black Anodized Finish, Add</i>	387.91	
			<i>For &gt;10 To 20, Deduct</i>	-104.29	
			<i>For &gt;20 To 40, Deduct</i>	-189.18	
			<i>For &gt;40, Deduct</i>	-397.75	
26 56 13 00-0411	EA		39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,183.93	547.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	208.84	
			<i>For Black Anodized Finish, Add</i>	417.68	
			<i>For &gt;10 To 20, Deduct</i>	-110.92	
			<i>For &gt;20 To 40, Deduct</i>	-200.96	
			<i>For &gt;40, Deduct</i>	-422.81	
26 56 13 00-0412	EA		28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,379.71	465.60
			<i>For Bronze Or Satin Anodized Finish, Add</i>	144.85	
			<i>For Black Anodized Finish, Add</i>	289.70	
			<i>For &gt;10 To 20, Deduct</i>	-81.22	
			<i>For &gt;20 To 40, Deduct</i>	-147.96	
			<i>For &gt;40, Deduct</i>	-310.40	
26 56 13 00-0413	EA		30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,558.67	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	157.27	
			<i>For Black Anodized Finish, Add</i>	314.54	
			<i>For &gt;10 To 20, Deduct</i>	-87.56	
			<i>For &gt;20 To 40, Deduct</i>	-159.39	
			<i>For &gt;40, Deduct</i>	-334.50	
26 56 13 00-0414	EA		33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,628.72	506.68
			<i>For Bronze Or Satin Anodized Finish, Add</i>	161.54	
			<i>For Black Anodized Finish, Add</i>	323.07	
			<i>For &gt;10 To 20, Deduct</i>	-89.95	
			<i>For &gt;20 To 40, Deduct</i>	-163.74	
			<i>For &gt;40, Deduct</i>	-343.64	
26 56 13 00-0415	EA		35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,807.78	520.37
			<i>For Bronze Or Satin Anodized Finish, Add</i>	176.70	
			<i>For Black Anodized Finish, Add</i>	353.41	
			<i>For &gt;10 To 20, Deduct</i>	-96.70	
			<i>For &gt;20 To 40, Deduct</i>	-175.73	
			<i>For &gt;40, Deduct</i>	-369.13	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,895.84 182.77 365.54 -99.81 -181.35 -380.97	534.07
26 56	13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,073.02 197.75 395.50 -106.49 -193.20 -406.18	547.76
26 56	13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,973.15 204.20 408.39 -104.96 -189.50 -399.41	465.60
26 56	13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,143.57 215.76 431.52 -110.95 -200.33 -422.24	492.99
26 56	13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,283.77 227.04 454.08 -116.15 -209.60 -441.90	506.68
26 56	13 00-0421	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,500.76 246.00 492.00 -124.42 -224.24 -473.08	520.37
26 56	13 00-0422	EA	37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,548.99 248.09 496.17 -125.94 -227.07 -478.94	534.07
26 56	13 00-0423	EA	39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,765.04 266.95 533.90 -134.17 -241.64 -509.98	547.76
26 56	13 00-0424	EA	48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,751.72 310.84 621.69 -165.42 -299.75 -630.59	821.64
26 56	13 00-0425	EA	50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,869.27 322.60 645.20 -170.12 -307.98 -648.23	821.64
<b>26 56</b>	<b>13 00-0426</b>		<b>Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)</b>		
26 56	13 00-0427	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	800.75 70.81 -27.10 -49.48 -103.68	164.33
26 56	13 00-0428	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	875.43 73.80 -29.27 -53.61 -112.14	191.72
26 56	13 00-0429	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	951.07 76.93 -31.47 -57.81 -120.75	219.10
26 56	13 00-0430	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,028.60 80.34 -33.75 -62.14 -129.64	246.49



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0431 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,105.17 83.61 -35.99 -66.41 -138.39	273.88
26 56 13 00-0432 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	886.81 75.51 -29.72 -54.41 -113.85	191.72
26 56 13 00-0433 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	964.34 78.92 -32.00 -58.74 -122.74	219.10
26 56 13 00-0434 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,043.77 82.62 -34.36 -63.20 -131.92	246.49
26 56 13 00-0435 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,122.24 86.17 -36.67 -67.60 -140.95	273.88
26 56 13 00-0436 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,213.04 91.58 -39.48 -72.86 -151.83	301.27
26 56 13 00-0437 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,295.31 95.70 -41.95 -77.53 -161.43	328.66
26 56 13 00-0438 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,001.31 84.47 -33.48 -61.33 -128.29	219.10
26 56 13 00-0439 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,085.48 88.87 -36.02 -66.12 -138.17	246.49
26 56 13 00-0440 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,181.01 94.99 -39.02 -71.72 -149.76	273.88
26 56 13 00-0441 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,267.07 99.68 -41.64 -76.64 -159.93	301.27
26 56 13 00-0442 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,365.46 106.22 -44.76 -82.44 -171.95	328.66
26 56 13 00-0443 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,235.05 103.09 -41.19 -75.50 -157.87	273.88
26 56 13 00-0444 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,340.07 110.63 -44.56 -81.75 -170.88	301.27
26 56 13 00-0445 EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,424.24 115.04 -47.11 -86.55 -180.77	328.66
26 56 13 00-0446 EA 12' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,030.70 88.87 -34.65 -63.38 -132.69	219.10
26 56 13 00-0447 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,130.03 95.56 -37.81 -69.24 -144.86	246.49



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,235.05 103.09 -41.19 -75.50 -157.87	273.88
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,328.69 108.92 -44.11 -80.96 -169.18	301.27
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,428.98 115.75 -47.30 -86.88 -181.48	328.66
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,296.66 112.34 -43.65 -79.81 -167.11	273.88
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,409.27 121.01 -47.33 -86.60 -181.26	301.27
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,498.18 126.13 -50.07 -91.73 -191.86	328.66
<b>26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0354)</small>					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	554.48 28.06 56.12 -18.07 -33.34 -69.48	136.94
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	581.03 30.72 61.43 -19.13 -35.19 -73.46	136.94
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	630.22 32.90 65.79 -20.69 -38.09 -79.47	150.64
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	672.78 34.41 68.82 -21.98 -40.52 -84.48	164.33
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	706.90 37.82 75.65 -23.35 -42.91 -89.60	164.33
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	655.81 35.45 70.91 -21.71 -39.88 -83.31	150.64
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	709.75 38.11 76.22 -23.46 -43.11 -90.03	164.33
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	728.71 40.01 80.01 -24.22 -44.44 -92.87	164.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0463 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	786.42	178.02
For Bronze Or Satin Anodized Finish, Add	43.04	
For Black Anodized Finish, Add	86.08	
For >10 To 20, Deduct	-26.12	
For >20 To 40, Deduct	-47.93	
For >40, Deduct	-100.16	
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	840.36	191.72
For Bronze Or Satin Anodized Finish, Add	45.69	
For Black Anodized Finish, Add	91.39	
For >10 To 20, Deduct	-27.86	
For >20 To 40, Deduct	-51.16	
For >40, Deduct	-106.88	
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	783.69	164.33
For Bronze Or Satin Anodized Finish, Add	45.50	
For Black Anodized Finish, Add	91.01	
For >10 To 20, Deduct	-26.42	
For >20 To 40, Deduct	-48.29	
For >40, Deduct	-101.12	
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	847.09	178.02
For Bronze Or Satin Anodized Finish, Add	49.11	
For Black Anodized Finish, Add	98.21	
For >10 To 20, Deduct	-28.54	
For >20 To 40, Deduct	-52.18	
For >40, Deduct	-109.26	
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	905.77	191.72
For Bronze Or Satin Anodized Finish, Add	52.23	
For Black Anodized Finish, Add	104.47	
For >10 To 20, Deduct	-30.48	
For >20 To 40, Deduct	-55.74	
For >40, Deduct	-116.69	
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	924.83	178.02
For Bronze Or Satin Anodized Finish, Add	56.88	
For Black Anodized Finish, Add	113.76	
For >10 To 20, Deduct	-31.65	
For >20 To 40, Deduct	-57.62	
For >40, Deduct	-120.92	
26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,184.27	219.10
For Bronze Or Satin Anodized Finish, Add	74.61	
For Black Anodized Finish, Add	149.21	
For >10 To 20, Deduct	-40.80	
For >20 To 40, Deduct	-74.13	
For >40, Deduct	-155.73	
26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,291.39	219.10
For Bronze Or Satin Anodized Finish, Add	85.32	
For Black Anodized Finish, Add	170.64	
For >10 To 20, Deduct	-45.08	
For >20 To 40, Deduct	-81.63	
For >40, Deduct	-171.80	
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,438.13	246.49
For Bronze Or Satin Anodized Finish, Add	94.51	
For Black Anodized Finish, Add	189.03	
For >10 To 20, Deduct	-50.13	
For >20 To 40, Deduct	-90.81	
For >40, Deduct	-191.07	
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,554.73	246.49
For Bronze Or Satin Anodized Finish, Add	106.17	
For Black Anodized Finish, Add	212.35	
For >10 To 20, Deduct	-54.79	
For >20 To 40, Deduct	-98.97	
For >40, Deduct	-208.56	
<b>26 56 13 00-0473 Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)</b>		
<b>26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)</b>		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	720.18	164.33
For Bronze Or Satin Anodized Finish, Add	39.15	
For Black Anodized Finish, Add	78.30	
For >10 To 20, Deduct	-23.88	
For >20 To 40, Deduct	-43.84	
For >40, Deduct	-91.59	
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	794.85	191.72
For Bronze Or Satin Anodized Finish, Add	41.14	
For Black Anodized Finish, Add	82.28	
For >10 To 20, Deduct	-26.04	
For >20 To 40, Deduct	-47.97	
For >40, Deduct	-100.06	
26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	877.12	219.10
For Bronze Or Satin Anodized Finish, Add	43.89	
For Black Anodized Finish, Add	87.78	
For >10 To 20, Deduct	-28.51	
For >20 To 40, Deduct	-52.63	
For >40, Deduct	-109.66	



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	958.45 46.55 93.09 -30.94 -57.23 -119.12	246.49
26 56	13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,002.89 48.25 96.50 -32.31 -59.79 -124.42	260.19
26 56	13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,047.35 49.96 99.92 -33.68 -62.36 -129.71	273.88
26 56	13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,134.36 53.18 106.36 -36.34 -67.35 -140.03	301.27
26 56	13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,229.90 57.26 114.52 -39.34 -72.95 -151.62	328.66
26 56	13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,112.76 56.50 113.00 -36.29 -66.94 -139.53	273.88
26 56	13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,201.66 59.91 119.82 -39.03 -72.07 -150.12	301.27
26 56	13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,302.89 64.56 129.11 -42.26 -78.06 -162.57	328.66
26 56	13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,287.29 76.69 153.38 -43.69 -79.70 -167.08	260.19
26 56	13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,574.96 91.76 183.53 -53.14 -97.10 -203.38	328.66
26 56	13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,912.56 103.61 207.23 -63.36 -116.35 -243.06	438.21
26 56	13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,361.67 70.44 140.87 -44.61 -82.17 -171.38	328.66
26 56	13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,689.67 103.24 206.47 -57.73 -105.13 -220.58	328.66
26 56	13 00-0491	EA	25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,016.84 114.04 228.08 -67.53 -123.65 -258.71	438.21

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0492	EA		20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,869.79	328.66
			<i>For Bronze Or Satin Anodized Finish, Add</i>	121.25	
			<i>For Black Anodized Finish, Add</i>	242.49	
			<i>For &gt;10 To 20, Deduct</i>	-64.93	
			<i>For &gt;20 To 40, Deduct</i>	-117.74	
			<i>For &gt;40, Deduct</i>	-247.60	
26 56 13 00-0493	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,251.94	438.21
			<i>For Bronze Or Satin Anodized Finish, Add</i>	137.55	
			<i>For Black Anodized Finish, Add</i>	275.10	
			<i>For &gt;10 To 20, Deduct</i>	-76.93	
			<i>For &gt;20 To 40, Deduct</i>	-140.11	
			<i>For &gt;40, Deduct</i>	-293.97	
26 56 13 00-0494	EA		30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,606.07	492.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	162.01	
			<i>For Black Anodized Finish, Add</i>	324.02	
			<i>For &gt;10 To 20, Deduct</i>	-89.45	
			<i>For &gt;20 To 40, Deduct</i>	-162.71	
			<i>For &gt;40, Deduct</i>	-341.61	
<b>26 56 13 00-0495</b>			<b>Square Straight, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0473)</small>		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496	EA		10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	647.38	136.94
			<i>For Bronze Or Satin Anodized Finish, Add</i>	37.35	
			<i>For Black Anodized Finish, Add</i>	74.70	
			<i>For &gt;10 To 20, Deduct</i>	-21.79	
			<i>For &gt;20 To 40, Deduct</i>	-39.84	
			<i>For &gt;40, Deduct</i>	-83.41	
26 56 13 00-0497	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	723.12	150.64
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.19	
			<i>For Black Anodized Finish, Add</i>	84.37	
			<i>For &gt;10 To 20, Deduct</i>	-24.41	
			<i>For &gt;20 To 40, Deduct</i>	-44.59	
			<i>For &gt;40, Deduct</i>	-93.40	
26 56 13 00-0498	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	770.42	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.18	
			<i>For Black Anodized Finish, Add</i>	88.35	
			<i>For &gt;10 To 20, Deduct</i>	-25.89	
			<i>For &gt;20 To 40, Deduct</i>	-47.36	
			<i>For &gt;40, Deduct</i>	-99.13	
26 56 13 00-0499	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	794.12	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	46.55	
			<i>For Black Anodized Finish, Add</i>	93.09	
			<i>For &gt;10 To 20, Deduct</i>	-26.83	
			<i>For &gt;20 To 40, Deduct</i>	-49.02	
			<i>For &gt;40, Deduct</i>	-102.69	
26 56 13 00-0500	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	823.51	164.33
			<i>For Bronze Or Satin Anodized Finish, Add</i>	49.49	
			<i>For Black Anodized Finish, Add</i>	98.97	
			<i>For &gt;10 To 20, Deduct</i>	-28.01	
			<i>For &gt;20 To 40, Deduct</i>	-51.07	
			<i>For &gt;40, Deduct</i>	-107.09	
26 56 13 00-0501	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	951.37	178.02
			<i>For Bronze Or Satin Anodized Finish, Add</i>	59.53	
			<i>For Black Anodized Finish, Add</i>	119.07	
			<i>For &gt;10 To 20, Deduct</i>	-32.71	
			<i>For &gt;20 To 40, Deduct</i>	-59.48	
			<i>For &gt;40, Deduct</i>	-124.90	
26 56 13 00-0502	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,019.52	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	63.61	
			<i>For Black Anodized Finish, Add</i>	127.22	
			<i>For &gt;10 To 20, Deduct</i>	-35.03	
			<i>For &gt;20 To 40, Deduct</i>	-63.70	
			<i>For &gt;40, Deduct</i>	-133.76	
26 56 13 00-0503	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,168.36	191.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	78.49	
			<i>For Black Anodized Finish, Add</i>	156.99	
			<i>For &gt;10 To 20, Deduct</i>	-40.98	
			<i>For &gt;20 To 40, Deduct</i>	-74.12	
			<i>For &gt;40, Deduct</i>	-156.08	
26 56 13 00-0504	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,342.58	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	90.44	
			<i>For Black Anodized Finish, Add</i>	180.87	
			<i>For &gt;10 To 20, Deduct</i>	-47.13	
			<i>For &gt;20 To 40, Deduct</i>	-85.22	
			<i>For &gt;40, Deduct</i>	-179.48	
26 56 13 00-0505	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,675.32	219.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	123.71	
			<i>For Black Anodized Finish, Add</i>	247.42	
			<i>For &gt;10 To 20, Deduct</i>	-60.44	
			<i>For &gt;20 To 40, Deduct</i>	-108.51	
			<i>For &gt;40, Deduct</i>	-229.39	
<b>26 56 13 00-0506</b>			<b>Factory Accessories For Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>		
26 56 13 00-0507	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles .....	46.36	





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0508 EA Extra Handhole For Aluminum Area Light Poles.....	35.33	
26 56 13 00-0509 EA Vibration Dampener For Aluminum Area Light Poles.....	70.13	
<b>26 56 13 00-0510 Fiberglass Area Light Poles</b> <small>(26 56 13 00-0177)</small>		
Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
<b>26 56 13 00-0511 Round Tapered, Fiberglass Area Light Poles</b> <small>(26 56 13 00-0510)</small>		
<b>26 56 13 00-0512 Round Tapered, Fiberglass Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0511)</small>		
26 56 13 00-0513 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,152.22	191.72
For >10 To 20, Deduct	-40.34	
For >20 To 40, Deduct	-72.99	
For >40, Deduct	-153.66	
26 56 13 00-0514 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,252.76	219.10
For >10 To 20, Deduct	-43.54	
For >20 To 40, Deduct	-78.93	
For >40, Deduct	-166.00	
26 56 13 00-0515 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,354.61	246.49
For >10 To 20, Deduct	-46.79	
For >20 To 40, Deduct	-84.96	
For >40, Deduct	-178.54	
26 56 13 00-0516 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,455.14	273.88
For >10 To 20, Deduct	-49.99	
For >20 To 40, Deduct	-90.90	
For >40, Deduct	-190.88	
26 56 13 00-0517 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,579.21	301.27
For >10 To 20, Deduct	-54.13	
For >20 To 40, Deduct	-98.49	
For >40, Deduct	-206.75	
26 56 13 00-0518 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,682.37	328.66
For >10 To 20, Deduct	-57.44	
For >20 To 40, Deduct	-104.62	
For >40, Deduct	-219.49	
26 56 13 00-0519 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,838.99	383.43
For >10 To 20, Deduct	-62.06	
For >20 To 40, Deduct	-113.39	
For >40, Deduct	-237.51	
26 56 13 00-0520 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,994.30	438.21
For >10 To 20, Deduct	-66.63	
For >20 To 40, Deduct	-122.07	
For >40, Deduct	-255.32	
26 56 13 00-0521 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,100.20	438.21
For >10 To 20, Deduct	-70.86	
For >20 To 40, Deduct	-129.49	
For >40, Deduct	-271.21	
26 56 13 00-0522 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,247.81	465.60
For >10 To 20, Deduct	-75.94	
For >20 To 40, Deduct	-138.72	
For >40, Deduct	-290.61	
26 56 13 00-0523 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,395.41	492.99
For >10 To 20, Deduct	-81.03	
For >20 To 40, Deduct	-147.96	
For >40, Deduct	-310.01	
26 56 13 00-0524 EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,272.50	191.72
For >10 To 20, Deduct	-45.15	
For >20 To 40, Deduct	-81.41	
For >40, Deduct	-171.70	
26 56 13 00-0525 EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,349.51	219.10
For >10 To 20, Deduct	-47.41	
For >20 To 40, Deduct	-85.70	
For >40, Deduct	-180.52	
26 56 13 00-0526 EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,427.82	246.49
For >10 To 20, Deduct	-49.72	
For >20 To 40, Deduct	-90.09	
For >40, Deduct	-189.52	
26 56 13 00-0527 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,508.74	273.88
For >10 To 20, Deduct	-52.13	
For >20 To 40, Deduct	-94.66	
For >40, Deduct	-198.92	
26 56 13 00-0528 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,596.21	301.27
For >10 To 20, Deduct	-54.81	
For >20 To 40, Deduct	-99.68	
For >40, Deduct	-209.30	
26 56 13 00-0529 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,682.37	328.66
For >10 To 20, Deduct	-57.44	
For >20 To 40, Deduct	-104.62	
For >40, Deduct	-219.49	
26 56 13 00-0530 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,823.30	383.43
For >10 To 20, Deduct	-61.43	
For >20 To 40, Deduct	-112.29	
For >40, Deduct	-235.15	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,994.30	438.21
			<i>For &gt;10 To 20, Deduct</i>	-66.63	
			<i>For &gt;20 To 40, Deduct</i>	-122.07	
			<i>For &gt;40, Deduct</i>	-255.32	
26 56	13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,038.75	438.21
			<i>For &gt;10 To 20, Deduct</i>	-68.40	
			<i>For &gt;20 To 40, Deduct</i>	-125.18	
			<i>For &gt;40, Deduct</i>	-261.99	
26 56	13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,139.29	465.60
			<i>For &gt;10 To 20, Deduct</i>	-71.60	
			<i>For &gt;20 To 40, Deduct</i>	-131.13	
			<i>For &gt;40, Deduct</i>	-274.33	
26 56	13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,239.82	492.99
			<i>For &gt;10 To 20, Deduct</i>	-74.80	
			<i>For &gt;20 To 40, Deduct</i>	-137.07	
			<i>For &gt;40, Deduct</i>	-286.67	
26 56	13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,449.01	191.72
			<i>For &gt;10 To 20, Deduct</i>	-52.21	
			<i>For &gt;20 To 40, Deduct</i>	-93.76	
			<i>For &gt;40, Deduct</i>	-198.18	
26 56	13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,544.32	219.10
			<i>For &gt;10 To 20, Deduct</i>	-55.20	
			<i>For &gt;20 To 40, Deduct</i>	-99.34	
			<i>For &gt;40, Deduct</i>	-209.74	
26 56	13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,639.63	246.49
			<i>For &gt;10 To 20, Deduct</i>	-58.19	
			<i>For &gt;20 To 40, Deduct</i>	-104.91	
			<i>For &gt;40, Deduct</i>	-221.30	
26 56	13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,736.24	273.88
			<i>For &gt;10 To 20, Deduct</i>	-61.23	
			<i>For &gt;20 To 40, Deduct</i>	-110.58	
			<i>For &gt;40, Deduct</i>	-233.05	
26 56	13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,838.09	301.27
			<i>For &gt;10 To 20, Deduct</i>	-64.49	
			<i>For &gt;20 To 40, Deduct</i>	-116.62	
			<i>For &gt;40, Deduct</i>	-245.59	
26 56	13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	1,947.78	328.66
			<i>For &gt;10 To 20, Deduct</i>	-68.05	
			<i>For &gt;20 To 40, Deduct</i>	-123.20	
			<i>For &gt;40, Deduct</i>	-259.30	
26 56	13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,124.01	383.43
			<i>For &gt;10 To 20, Deduct</i>	-73.46	
			<i>For &gt;20 To 40, Deduct</i>	-133.34	
			<i>For &gt;40, Deduct</i>	-280.26	
26 56	13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,301.55	438.21
			<i>For &gt;10 To 20, Deduct</i>	-78.92	
			<i>For &gt;20 To 40, Deduct</i>	-143.58	
			<i>For &gt;40, Deduct</i>	-301.41	
26 56	13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,369.54	438.21
			<i>For &gt;10 To 20, Deduct</i>	-81.64	
			<i>For &gt;20 To 40, Deduct</i>	-148.34	
			<i>For &gt;40, Deduct</i>	-311.61	
26 56	13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,531.53	465.60
			<i>For &gt;10 To 20, Deduct</i>	-87.29	
			<i>For &gt;20 To 40, Deduct</i>	-158.58	
			<i>For &gt;40, Deduct</i>	-333.17	
26 56	13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,663.44	492.99
			<i>For &gt;10 To 20, Deduct</i>	-91.75	
			<i>For &gt;20 To 40, Deduct</i>	-166.72	
			<i>For &gt;40, Deduct</i>	-350.22	
26 56	13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,767.97	506.68
			<i>For &gt;10 To 20, Deduct</i>	-95.52	
			<i>For &gt;20 To 40, Deduct</i>	-173.49	
			<i>For &gt;40, Deduct</i>	-364.53	
26 56	13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....	2,872.50	520.37
			<i>For &gt;10 To 20, Deduct</i>	-99.29	
			<i>For &gt;20 To 40, Deduct</i>	-180.26	
			<i>For &gt;40, Deduct</i>	-378.84	
<b>26 56</b>	<b>13 00-0548</b>		<b>Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small></b>		
	13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	713.19	136.94
			<i>For &gt;10 To 20, Deduct</i>	-24.42	
			<i>For &gt;20 To 40, Deduct</i>	-44.45	
			<i>For &gt;40, Deduct</i>	-93.28	
	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	765.42	150.64
			<i>For &gt;10 To 20, Deduct</i>	-26.10	
			<i>For &gt;20 To 40, Deduct</i>	-47.55	
			<i>For &gt;40, Deduct</i>	-99.75	
	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	816.34	164.33
			<i>For &gt;10 To 20, Deduct</i>	-27.72	
			<i>For &gt;20 To 40, Deduct</i>	-50.57	
			<i>For &gt;40, Deduct</i>	-106.02	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0552	EA		16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	838.57	164.33
			<i>For &gt;10 To 20, Deduct</i>	-28.61	
			<i>For &gt;20 To 40, Deduct</i>	-52.13	
			<i>For &gt;40, Deduct</i>	-109.35	
26 56 13 00-0553	EA		18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	902.56	178.02
			<i>For &gt;10 To 20, Deduct</i>	-30.76	
			<i>For &gt;20 To 40, Deduct</i>	-56.06	
			<i>For &gt;40, Deduct</i>	-117.58	
26 56 13 00-0554	EA		20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	956.10	191.72
			<i>For &gt;10 To 20, Deduct</i>	-32.49	
			<i>For &gt;20 To 40, Deduct</i>	-59.26	
			<i>For &gt;40, Deduct</i>	-124.24	
26 56 13 00-0555	EA		22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,013.56	205.41
			<i>For &gt;10 To 20, Deduct</i>	-34.38	
			<i>For &gt;20 To 40, Deduct</i>	-62.73	
			<i>For &gt;40, Deduct</i>	-131.49	
26 56 13 00-0556	EA		24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,077.56	219.10
			<i>For &gt;10 To 20, Deduct</i>	-36.53	
			<i>For &gt;20 To 40, Deduct</i>	-66.67	
			<i>For &gt;40, Deduct</i>	-139.72	
26 56 13 00-0557	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,203.07	219.10
			<i>For &gt;10 To 20, Deduct</i>	-41.55	
			<i>For &gt;20 To 40, Deduct</i>	-75.45	
			<i>For &gt;40, Deduct</i>	-158.55	
26 56 13 00-0558	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,355.98	232.80
			<i>For &gt;10 To 20, Deduct</i>	-47.26	
			<i>For &gt;20 To 40, Deduct</i>	-85.61	
			<i>For &gt;40, Deduct</i>	-180.12	
26 56 13 00-0559	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,508.89	246.49
			<i>For &gt;10 To 20, Deduct</i>	-52.96	
			<i>For &gt;20 To 40, Deduct</i>	-95.76	
			<i>For &gt;40, Deduct</i>	-201.68	
26 56 13 00-0560	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	833.47	136.94
			<i>For &gt;10 To 20, Deduct</i>	-29.23	
			<i>For &gt;20 To 40, Deduct</i>	-52.87	
			<i>For &gt;40, Deduct</i>	-111.33	
26 56 13 00-0561	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	892.24	150.64
			<i>For &gt;10 To 20, Deduct</i>	-31.17	
			<i>For &gt;20 To 40, Deduct</i>	-56.43	
			<i>For &gt;40, Deduct</i>	-118.77	
26 56 13 00-0562	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	951.01	164.33
			<i>For &gt;10 To 20, Deduct</i>	-33.11	
			<i>For &gt;20 To 40, Deduct</i>	-60.00	
			<i>For &gt;40, Deduct</i>	-126.22	
26 56 13 00-0563	EA		16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	983.70	164.33
			<i>For &gt;10 To 20, Deduct</i>	-34.42	
			<i>For &gt;20 To 40, Deduct</i>	-62.29	
			<i>For &gt;40, Deduct</i>	-131.12	
26 56 13 00-0564	EA		18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,042.46	178.02
			<i>For &gt;10 To 20, Deduct</i>	-36.36	
			<i>For &gt;20 To 40, Deduct</i>	-65.85	
			<i>For &gt;40, Deduct</i>	-138.57	
26 56 13 00-0565	EA		20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,101.23	191.72
			<i>For &gt;10 To 20, Deduct</i>	-38.30	
			<i>For &gt;20 To 40, Deduct</i>	-69.42	
			<i>For &gt;40, Deduct</i>	-146.01	
26 56 13 00-0566	EA		22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,159.99	205.41
			<i>For &gt;10 To 20, Deduct</i>	-40.24	
			<i>For &gt;20 To 40, Deduct</i>	-72.98	
			<i>For &gt;40, Deduct</i>	-153.46	
26 56 13 00-0567	EA		24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,248.84	219.10
			<i>For &gt;10 To 20, Deduct</i>	-43.38	
			<i>For &gt;20 To 40, Deduct</i>	-78.65	
			<i>For &gt;40, Deduct</i>	-165.42	
26 56 13 00-0568	EA		26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,370.43	219.10
			<i>For &gt;10 To 20, Deduct</i>	-48.24	
			<i>For &gt;20 To 40, Deduct</i>	-87.17	
			<i>For &gt;40, Deduct</i>	-183.65	
26 56 13 00-0569	EA		28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,520.72	232.80
			<i>For &gt;10 To 20, Deduct</i>	-53.84	
			<i>For &gt;20 To 40, Deduct</i>	-97.14	
			<i>For &gt;40, Deduct</i>	-204.83	
26 56 13 00-0570	EA		30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,669.70	246.49
			<i>For &gt;10 To 20, Deduct</i>	-59.39	
			<i>For &gt;20 To 40, Deduct</i>	-107.02	
			<i>For &gt;40, Deduct</i>	-225.81	
26 56 13 00-0571	EA		10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	939.38	136.94
			<i>For &gt;10 To 20, Deduct</i>	-33.47	
			<i>For &gt;20 To 40, Deduct</i>	-60.28	
			<i>For &gt;40, Deduct</i>	-127.21	
26 56 13 00-0572	EA		12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	990.30	150.64
			<i>For &gt;10 To 20, Deduct</i>	-35.09	
			<i>For &gt;20 To 40, Deduct</i>	-63.30	
			<i>For &gt;40, Deduct</i>	-133.48	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0573	EA		14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,039.92	164.33
			<i>For &gt;10 To 20, Deduct</i>	-36.67	
			<i>For &gt;20 To 40, Deduct</i>	-66.22	
			<i>For &gt;40, Deduct</i>	-139.56	
26 56 13 00-0574	EA		16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,062.15	164.33
			<i>For &gt;10 To 20, Deduct</i>	-37.56	
			<i>For &gt;20 To 40, Deduct</i>	-67.78	
			<i>For &gt;40, Deduct</i>	-142.89	
26 56 13 00-0575	EA		18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,111.75	178.02
			<i>For &gt;10 To 20, Deduct</i>	-39.13	
			<i>For &gt;20 To 40, Deduct</i>	-70.70	
			<i>For &gt;40, Deduct</i>	-148.96	
26 56 13 00-0576	EA		20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,162.68	191.72
			<i>For &gt;10 To 20, Deduct</i>	-40.76	
			<i>For &gt;20 To 40, Deduct</i>	-73.72	
			<i>For &gt;40, Deduct</i>	-155.23	
26 56 13 00-0577	EA		22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,258.05	205.41
			<i>For &gt;10 To 20, Deduct</i>	-44.16	
			<i>For &gt;20 To 40, Deduct</i>	-79.85	
			<i>For &gt;40, Deduct</i>	-168.17	
26 56 13 00-0578	EA		24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,369.12	219.10
			<i>For &gt;10 To 20, Deduct</i>	-48.19	
			<i>For &gt;20 To 40, Deduct</i>	-87.07	
			<i>For &gt;40, Deduct</i>	-183.46	
26 56 13 00-0579	EA		26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,444.95	219.10
			<i>For &gt;10 To 20, Deduct</i>	-51.22	
			<i>For &gt;20 To 40, Deduct</i>	-92.38	
			<i>For &gt;40, Deduct</i>	-194.83	
26 56 13 00-0580	EA		28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,549.48	232.80
			<i>For &gt;10 To 20, Deduct</i>	-55.00	
			<i>For &gt;20 To 40, Deduct</i>	-99.15	
			<i>For &gt;40, Deduct</i>	-209.14	
26 56 13 00-0581	EA		30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial .....	1,654.01	246.49
			<i>For &gt;10 To 20, Deduct</i>	-58.77	
			<i>For &gt;20 To 40, Deduct</i>	-105.92	
			<i>For &gt;40, Deduct</i>	-223.45	
<b>26 56 13 00-0582</b>			<b>Factory Accessories For Fiberglass Area Light Poles</b> <small>(26 56 13 00-0510)</small>		
26 56 13 00-0583	EA		Open Or Capped Top For Fiberglass Area Light Poles.....	46.36	
26 56 13 00-0584	EA		Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	46.36	
26 56 13 00-0585	EA		Smooth Shaft Finish For Fiberglass Area Light Poles.....	87.96	
26 56 13 00-0586	EA		Vibration Dampener For Fiberglass Area Light Poles.....	116.48	
<b>26 56 13 00-0587</b>			<b>Concrete Area Light Poles</b> <small>(26 56 13 00-0177)</small>		
<b>26 56 13 00-0588</b>			<b>Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0587)</small>		
26 56 13 00-0589	EA		28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,974.33	465.60
26 56 13 00-0590	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,081.26	492.99
26 56 13 00-0591	EA		33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,159.60	506.68
26 56 13 00-0592	EA		36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,701.04	520.37
26 56 13 00-0593	EA		38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,004.85	547.76
26 56 13 00-0594	EA		43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,714.26	712.09
26 56 13 00-0595	EA		47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,446.30	876.42
26 56 13 00-0596	EA		27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,365.57	465.60
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0597	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,044.78	492.99
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0598	EA		Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	477.16	164.33
26 56 13 00-0599	EA		13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design .....	2,618.15	328.54
26 56 13 00-0600	EA		Pole Base Cover For All Octagon Poles.....	185.77	67.04
26 56 13 00-0601	EA		Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	379.67	134.09
<b>26 56 13 00-0602</b>			<b>Tapered, Spun Concrete Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0587)</small>		
			Note: Round or square.		
26 56 13 00-0603	EA		13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	2,161.35	219.10
26 56 13 00-0604	EA		16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	2,438.48	273.88
26 56 13 00-0605	EA		18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	2,688.87	328.66
26 56 13 00-0606	EA		30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	3,741.53	492.99
26 56 13 00-0607	EA		35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	4,321.49	520.37
26 56 13 00-0608	EA		40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	4,948.90	547.76
26 56 13 00-0609	EA		45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial .....	5,725.85	712.09
<b>26 56 13 00-0610</b>			<b>Round Tapered, Spun Concrete Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0587)</small>		
26 56 13 00-0611	EA		60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	11,294.01	1,232.46
26 56 13 00-0612	EA		70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	13,495.48	1,544.71
26 56 13 00-0613	EA		80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	16,059.44	2,086.72



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0614 Treated Wood Area Light Poles <small>(26 56 13 00-0177)</small> See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts <small>(26 56 13 00-0177)</small>		
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base <small>(26 56 13 00-0615)</small> Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,035.93	136.94
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,097.80	157.75
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,187.77	164.33
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,455.29	191.72
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,693.44	208.15
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,942.79	224.59
26 56 13 00-0623 Landscape Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56 13 00-0624 Aluminum Landscape Light Poles <small>(26 56 13 00-0623)</small> Note: Includes painted finish.		
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles <small>(26 56 13 00-0624)</small>		
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base <small>(26 56 13 00-0625)</small>		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base .....	413.02	164.33
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base .....	705.20	219.10
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial <small>(26 56 13 00-0625)</small>		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial .....	373.32	164.33
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial .....	665.50	219.10
26 56 13 00-0632 Steel Landscape Light Poles <small>(26 56 13 00-0623)</small> Note: Includes painted finish.		
26 56 13 00-0633 Round Straight, Steel Landscape Light Poles <small>(26 56 13 00-0632)</small>		
26 56 13 00-0634 Round Straight, Steel Landscape Light Poles, Anchor Base <small>(26 56 13 00-0633)</small>		
26 56 13 00-0635 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base .....	407.80	164.33
26 56 13 00-0636 Round Straight, Steel Landscape Light Poles, Direct Burial <small>(26 56 13 00-0633)</small>		
26 56 13 00-0637 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial .....	390.07	164.33
26 56 13 00-0638 Light Pole Brackets And Arms <small>(26 56 13 00-0001)</small>		
26 56 13 00-0639 Light Pole Brackets <small>(26 56 13 00-0638)</small>		
26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0639)</small>		
26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0640)</small>		
26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0641)</small> Note: Includes powdercoat finish.		
26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	383.10	32.87
For Galvanized Finish, Add	31.74	
26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	478.86	32.87
For Galvanized Finish, Add	41.31	
26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	508.09	32.87
For Galvanized Finish, Add	44.24	
26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	688.51	32.87
For Galvanized Finish, Add	62.28	
26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	716.60	32.87
For Galvanized Finish, Add	65.09	
26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0641)</small> Note: Includes satin brushed or painted finish.		
26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	220.25	32.87
For Bronze Or Satin Anodized Finish, Add	15.45	
For Black Anodized Finish, Add	30.90	
26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	269.55	32.87
For Bronze Or Satin Anodized Finish, Add	20.38	
For Black Anodized Finish, Add	40.76	
26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	282.82	32.87
For Bronze Or Satin Anodized Finish, Add	21.71	
For Black Anodized Finish, Add	43.42	
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	329.27	32.87
For Bronze Or Satin Anodized Finish, Add	26.35	
For Black Anodized Finish, Add	52.71	
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	338.75	32.87
For Bronze Or Satin Anodized Finish, Add	27.30	
For Black Anodized Finish, Add	54.60	





MINOR  
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TOTAL DIRECT DEMOLITION  
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26 56 13 00-0654	Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0655	Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.		
26 56 13 00-0656	EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket ..... For Galvanized Finish, Add	410.44 34.47	32.87
26 56 13 00-0657	EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	502.16 43.64	32.87
26 56 13 00-0658	EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	609.89 54.42	32.87
26 56 13 00-0659	EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	718.11 65.24	32.87
26 56 13 00-0660	Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0661	Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.		
26 56 13 00-0662	EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	403.12	54.77
26 56 13 00-0663	EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket .....	590.85	54.77
26 56 13 00-0664	EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	812.97	54.77
26 56 13 00-0665	EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	886.05	54.77
26 56 13 00-0666	Light Pole Arms (26 56 13 00-0638)		
26 56 13 00-0667	Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668	Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669	EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	245.00	49.30
26 56 13 00-0670	EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	260.88	54.77
26 56 13 00-0671	EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	305.52	68.47
26 56 13 00-0672	EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	350.83	54.77
26 56 13 00-0673	EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	395.22	68.47
26 56 13 00-0674	EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount .....	479.18	82.16
26 56 13 00-0675	Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676	EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount .....	215.71	54.77
26 56 13 00-0677	EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount .....	270.15	54.77
26 56 13 00-0678	EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount .....	362.21	68.47
26 56 13 00-0679	EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount .....	476.84	82.16
26 56 13 00-0680	Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681	Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682	EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount .....	444.27	54.77
26 56 13 00-0683	EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount .....	681.41	60.26
26 56 13 00-0684	EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount .....	756.43	65.73
26 56 13 00-0685	EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount .....	894.21	71.21
26 56 13 00-0686	EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount .....	531.79	68.47
26 56 13 00-0687	EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	745.41	73.95
26 56 13 00-0688	Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689	EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount .....	264.08	54.77
26 56 13 00-0690	EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount .....	325.59	68.47
26 56 13 00-0691	EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount .....	389.00	82.16
26 56 13 00-0692	EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount .....	262.18	54.77
26 56 13 00-0693	EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	375.52	60.26
26 56 13 00-0694	EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	321.80	68.47
26 56 13 00-0695	EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	457.89	73.95
26 56 13 00-0696	EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	390.90	82.16
26 56 13 00-0697	EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	556.38	87.64
26 56 13 00-0698	Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699	EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms .....	1,807.62	
26 56 13 00-0700	High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701	High Mast Lighting Assemblies (26 56 13 00-0700) Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702	EA 60' High Mast Lighting Assembly .....	33,546.62	1,714.69
26 56 13 00-0703	EA 70' High Mast Lighting Assembly .....	35,429.54	1,795.88
26 56 13 00-0704	EA 80' High Mast Lighting Assembly .....	37,347.62	1,913.17



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0705 EA 90' High Mast Lighting Assembly .....	39,299.77	2,066.55
26 56 13 00-0706 EA 100' High Mast Lighting Assembly .....	41,273.53	2,255.97
26 56 13 00-0707 EA 110' High Mast Lighting Assembly .....	43,814.47	2,481.73
26 56 13 00-0708 EA 120' High Mast Lighting Assembly .....	45,881.72	2,707.31
26 56 13 00-0709 EA 130' High Mast Lighting Assembly .....	47,797.86	2,932.90
26 56 13 00-0710 EA 140' High Mast Lighting Assembly .....	49,865.12	3,158.59
26 56 13 00-0711 EA 150' High Mast Lighting Assembly .....	52,360.02	3,384.18
<b>26 56 13 00-0712 High Mast Light Poles</b> <small>(26 56 13 00-0700)</small>		
26 56 13 00-0713 EA 60' High Mast Light Poles .....	13,044.15	1,029.81
26 56 13 00-0714 EA 70' High Mast Light Poles .....	14,902.70	1,078.59
26 56 13 00-0715 EA 80' High Mast Light Poles .....	16,785.55	1,149.06
26 56 13 00-0716 EA 90' High Mast Light Poles .....	18,691.63	1,241.19
26 56 13 00-0717 EA 100' High Mast Light Poles .....	20,622.02	1,355.02
26 56 13 00-0718 EA 110' High Mast Light Poles .....	22,576.76	1,490.51
26 56 13 00-0719 EA 120' High Mast Light Poles .....	24,072.49	1,626.01
26 56 13 00-0720 EA 130' High Mast Light Poles .....	23,654.46	3,013.55
26 56 13 00-0721 EA 140' High Mast Light Poles .....	26,911.71	1,897.02
26 56 13 00-0722 EA 150' High Mast Light Poles .....	28,559.70	2,032.53
<b>26 56 13 00-0723 High Mast Lighting Accessories</b> <small>(26 56 13 00-0700)</small>		
<small>See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.</small>		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting .....	607.66	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting .....	1,685.58	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting .....	1,276.23	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting .....	545.56	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting .....	1,031.23	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting .....	10,589.85	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting .....	10,675.91	
<b>26 56 13 00-0731 Concrete Bases</b> <small>(26 56 13 00-0001)</small>		
<b>26 56 13 00-0732 Concrete Bases, Cast In Place</b> <small>(26 56 13 00-0731)</small>		
<small>Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.</small>		
26 56 13 00-0733 VLF 2' Diameter Concrete Base For Poles.....	82.68	
26 56 13 00-0734 VLF 2-1/2' Diameter Concrete Base For Poles.....	105.30	
26 56 13 00-0735 VLF 3' Diameter Concrete Base For Poles.....	128.97	
26 56 13 00-0736 VLF 3-1/2' Diameter Concrete Base For Poles.....	161.17	
26 56 13 00-0737 VLF 4' Diameter Concrete Base For Poles.....	192.82	
26 56 13 00-0738 VLF 5' Diameter Concrete Base For Poles.....	265.45	
26 56 13 00-0739 VLF 6' Diameter Concrete Base For Poles.....	352.10	
<b>26 56 18 Incandescent Exterior Lighting</b> <small>(26 56)</small>		
<b>26 56 18 00-0001 Exterior Globe</b> <small>(26 56 18)</small>		
<b>26 56 18 00-0002 Incandescent, Exterior Globe</b> <small>(26 56 18 00-0001)</small>		
26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	60.12	18.59
26 56 18 00-0004 EA 150-200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	101.80	18.59
26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	75.05	18.59
26 56 18 00-0006 EA 150-200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	107.55	18.59
<b>26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 18)</small>		
<small>Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.</small>		
26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	198.24	74.34
26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	207.57	78.99
26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	226.57	83.64
26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	228.49	92.92
26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	258.14	106.86
<b>26 56 19 LED Exterior Lighting</b> <small>(26 56)</small>		
<b>26 56 19 00-0001 LED, Roadway Lighting</b> <small>(26 56 19)</small>		
<b>26 56 19 00-0002 LED Roadway Lighting (Philips Lumec)</b> <small>(26 56 19 00-0001)</small>		
<b>26 56 19 00-0003 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series)</b> <small>(26 56 19 00-0002)</small>		
<small>Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.</small>		
26 56 19 00-0004 EA 49 LEDs, 102 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series) .....	1,002.17	133.24
26 56 19 00-0005 EA 98 LEDs, 204 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series) .....	1,528.96	136.84



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TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 56 19 00-0006		<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series)</b> <small>(26 56 19 00-0002)</small> Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0007	EA	48 LEDs, 55 System Watts, Type III Medium, 120-277 Volts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	747.89	133.24
26 56 19 00-0008	EA	48 LEDs, 80 System Watts, Type III Medium, 120-277 Volts, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	747.89	133.24
26 56 19 00-0009	EA	48 LEDs, 108 System Watts, Type III Medium, 120-277 Volts, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	747.89	133.24
26 56 19 00-0010		<b>LED Roadway Lighting (Lithonia)</b> <small>(26 56 19 00-0001)</small>		
26 56 19 00-0011		<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series)</b> <small>(26 56 19 00-0010)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0012	EA	30 LEDs, 74 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	1,422.33	126.04
26 56 19 00-0013	EA	60 LEDs, 146 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,312.34	129.64
26 56 19 00-0014		<b>LED Roadway Lighting (CREE® BetaLED®)</b> <small>(26 56 19 00-0001)</small>		
26 56 19 00-0015		<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY)</b> <small>(26 56 19 00-0014)</small> Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0016	EA	20 LEDs, 25 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	763.42	122.44
26 56 19 00-0017	EA	30 LEDs, 35 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	858.56	126.04
26 56 19 00-0018	EA	40 LEDs, 45 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	973.41	129.64
26 56 19 00-0019	EA	50 LEDs, 55 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,070.07	133.24
26 56 19 00-0020	EA	60 LEDs, 65 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,166.73	136.84
26 56 19 00-0021	EA	70 LEDs, 75 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,396.80	140.45
26 56 19 00-0022	EA	80 LEDs, 86 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,493.47	144.04
26 56 19 00-0023	EA	90 LEDs, 96 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,588.61	147.64
26 56 19 00-0024	EA	100 LEDs, 111 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,774.72	151.25
26 56 19 00-0025	EA	110 LEDs, 122 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,871.38	154.85
26 56 19 00-0026	EA	120 LEDs, 133 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,968.04	158.44
26 56 19 00-0027		<b>Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG)</b> <small>(26 56 19 00-0014)</small> Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028	EA	40 LEDs, 47 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,526.82	129.64
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0029	EA	60 LEDs, 68 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,764.11	136.84
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0030	EA	80 LEDs, 90 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,001.40	144.04
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0031	EA	100 LEDs, 111 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,238.68	151.25
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0032	EA	120 LEDs, 132 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,949.02	158.44
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0033	EA	140 LEDs, 157 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,186.30	165.65
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0034	EA	160 LEDs, 179 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,423.60	172.85
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0035		<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP)</b> <small>(26 56 19 00-0014)</small> Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0036	EA		4,806 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	632.93	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Backlight Control Shield, Add</i>	29.87	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Bird Spikes, Add</i>	46.76	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Fuse, Add</i>	53.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0037	EA		5,340 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	632.93	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Backlight Control Shield, Add</i>	29.87	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Bird Spikes, Add</i>	46.76	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Fuse, Add</i>	53.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0038	EA		8,407 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	700.52	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Backlight Control Shield, Add</i>	29.87	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Bird Spikes, Add</i>	46.76	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
26 56 19 00-0039	EA		8,820 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	700.52	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Backlight Control Shield, Add</i>	29.87	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Bird Spikes, Add</i>	46.76	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
26 56 19 00-0040	EA		9,612 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	820.68	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Backlight Control Shield, Add</i>	43.00	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Fuse, Add</i>	53.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For Bird Spikes, Add</i>	76.81	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0041	EA		10,680 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	820.68	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Backlight Control Shield, Add</i>	43.00	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Fuse, Add</i>	53.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For Bird Spikes, Add</i>	76.81	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0042	EA		13,732 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	933.35	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Backlight Control Shield, Add</i>	43.00	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For Bird Spikes, Add</i>	76.81	
			<i>For 480 Volt, Add</i>	80.47	
26 56 19 00-0043	EA		14,408 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	933.35	129.64
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Field Adjustable Output, Add</i>	26.83	
			<i>For Backlight Control Shield, Add</i>	43.00	
			<i>For Field Adjustable Output And Utility Label, Add</i>	35.77	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	53.64	
			<i>For Bird Spikes, Add</i>	76.81	
			<i>For 480 Volt, Add</i>	80.47	
26 56 19 00-0044	EA		2,529 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	512.76	129.64
			<i>For Utility Label, Add</i>	8.94	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	26.83	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0045	EA		2,722 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G) .....	512.76	129.64
			For Utility Label, Add .....	8.94	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	17.88	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	26.83	
			For 0 To 10 Volt Dimming, Add .....	53.64	
26 56 19 00-0046	EA		3,819 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C) .....	540.93	129.64
			For Utility Label, Add .....	8.94	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	17.88	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	26.83	
			For 0 To 10 Volt Dimming, Add .....	53.64	
26 56 19 00-0047	EA		4,109 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C) .....	540.93	129.64
			For Utility Label, Add .....	8.94	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	17.88	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	26.83	
			For 0 To 10 Volt Dimming, Add .....	53.64	
26 56 19 00-0048	EA		4,548 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A) .....	550.31	129.64
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	17.88	
			For Field Adjustable Output, Add .....	26.83	
			For Field Adjustable Output And Utility Label, Add .....	35.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	53.64	
			For 0 To 10 Volt Dimming, Add .....	53.64	
26 56 19 00-0049	EA		4,627 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A) .....	550.31	129.64
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	17.88	
			For Field Adjustable Output, Add .....	26.83	
			For Field Adjustable Output And Utility Label, Add .....	35.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add .....	53.64	
			For 0 To 10 Volt Dimming, Add .....	53.64	
26 56 19 00-0050			<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)</b> <small>(26 56 19 00-0014)</small> Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051	EA		3,300 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N) .....	531.54	129.64
			For Field Adjustable Output, Add .....	26.83	
			For Backlight Control Shield, Add .....	57.67	
			For Bird Spikes, Add .....	77.33	
26 56 19 00-0052	EA		3,300 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N) .....	531.54	129.64
			For Field Adjustable Output, Add .....	26.83	
			For Backlight Control Shield, Add .....	57.67	
			For Bird Spikes, Add .....	77.33	
26 56 19 00-0053	EA		5,000 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N) .....	550.31	129.64
			For Field Adjustable Output, Add .....	26.83	
			For Backlight Control Shield, Add .....	57.67	
			For Bird Spikes, Add .....	77.33	
26 56 19 00-0054	EA		5,000 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N) .....	550.31	129.64
			For Field Adjustable Output, Add .....	26.83	
			For Backlight Control Shield, Add .....	57.67	
			For Bird Spikes, Add .....	77.33	
26 56 19 00-0055			<b>LED Roadway Lighting (Cooper Lighting)</b> <small>(26 56 19 00-0001)</small>		
26 56 19 00-0056			<b>Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™)</b> <small>(26 56 19 00-0055)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA		1 LED Light Square, 51 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	661.70	129.64
26 56 19 00-0058	EA		2 LED Light Squares, 103 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	881.05	144.04
26 56 19 00-0059	EA		3 LED Light Squares, 154 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	950.62	165.65
26 56 19 00-0060	EA		4 LED Light Squares, 206 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	1,381.24	180.06
26 56 19 00-0061	EA		6 LED Light Squares, 309 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	1,795.99	204.98
26 56 19 00-0062			<b>LED Roadway Lighting (PlanLED)</b> <small>(26 56 19 00-0001)</small>		
26 56 19 00-0063			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA)</b> <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0064	EA		8,500 Lumens, 85 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W) .....	780.92	126.04
26 56 19 00-0065	EA		11,000 Lumens, 110 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W) .....	844.62	127.42
26 56 19 00-0066	EA		15,000 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W) .....	895.35	129.64
<b>26 56 19 00-0067</b>			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA)</b> <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068	EA		7,200 Lumens, 60 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060) .....	534.77	122.99
26 56 19 00-0069	EA		10,000 Lumens, 80 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080) .....	569.66	125.21
26 56 19 00-0070	EA		12,500 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100) .....	624.06	127.42
<b>26 56 19 00-0071</b>			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META)</b> <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072	EA		13,000 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100) .....	659.40	127.42
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	52.20	
26 56 19 00-0073	EA		16,900 Lumens, 130 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130) .....	724.97	128.53
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	15.42	
26 56 19 00-0074	EA		19,500 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150) .....	775.93	129.64
			<i>For 0 To 10 Volt Dimming, Add</i>	52.20	
			<i>For 347-480 Volt, Add</i>	-5.51	
<b>26 56 19 00-0075</b>			<b>LED Roadway Lighting (General Electric)</b> <small>(26 56 19 00-0001)</small>		
<b>26 56 19 00-0076</b>			<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric)</b> <small>(26 56 19 00-0075)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077	EA		2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY) .....	422.88	122.44
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-17.80	
			<i>For &gt;500, Deduct</i>	-28.48	
26 56 19 00-0078	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY) .....	426.19	124.10
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-17.80	
			<i>For &gt;500, Deduct</i>	-28.48	
26 56 19 00-0079	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY) .....	442.40	126.04
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-19.03	
			<i>For &gt;500, Deduct</i>	-28.55	
26 56 19 00-0080	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY) .....	458.60	127.42
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-20.38	
			<i>For &gt;500, Deduct</i>	-30.56	
26 56 19 00-0081	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY) .....	501.07	130.19
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-24.07	
			<i>For &gt;500, Deduct</i>	-50.54	
26 56 19 00-0082	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY) .....	523.44	131.30
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-26.08	
			<i>For &gt;500, Deduct</i>	-39.13	
26 56 19 00-0083	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY) .....	565.39	133.24
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-29.89	
			<i>For &gt;500, Deduct</i>	-44.84	
26 56 19 00-0084	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY) .....	654.32	136.84
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;25 To 500, Deduct</i>	-38.06	
			<i>For &gt;500, Deduct</i>	-57.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0085 EA 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY) .....	758.28	144.04
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-47.02	
For >500, Deduct	-70.53	
<b>26 56 19 00-0086 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)</b>		
<b>26 56 19 00-0087 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)</b>		
Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0088 EA 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70) .....	758.50	126.04
26 56 19 00-0089 EA 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70) .....	928.10	129.64
26 56 19 00-0090 EA 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70) .....	1,269.79	133.24
26 56 19 00-0091 EA 13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70) .....	1,614.71	138.51
26 56 19 00-0092 EA 17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70) .....	1,951.17	142.38
<b>26 56 19 00-0093 LED Roadway Lighting (Leotek) (26 56 19 00-0001)</b>		
<b>26 56 19 00-0094 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0093)</b>		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095 EA Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL) .....	433.10	126.04
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-18.10	
For >1,000 To 2,500, Deduct	-25.34	
For >2,500, Deduct	-32.58	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	
26 56 19 00-0096 EA Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL) .....	441.75	127.42
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-18.69	
For >1,000 To 2,500, Deduct	-26.17	
For >2,500, Deduct	-33.64	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	
26 56 19 00-0097 EA Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL) .....	466.92	128.25
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-21.04	
For >1,000 To 2,500, Deduct	-29.46	
For >2,500, Deduct	-37.87	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	
26 56 19 00-0098 EA Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL) .....	533.31	133.24
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-26.68	
For >1,000 To 2,500, Deduct	-37.36	
For >2,500, Deduct	-48.03	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	
26 56 19 00-0099 EA Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL) .....	613.40	136.84
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-33.97	
For >1,000 To 2,500, Deduct	-47.56	
For >2,500, Deduct	-61.15	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	
26 56 19 00-0100 EA Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL) .....	617.82	139.06
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >500 To 1,000, Deduct	-33.97	
For >1,000 To 2,500, Deduct	-47.56	
For >2,500, Deduct	-61.15	
For Twist Lock Shorting Cap, Add	5.60	
For ANSI 7-wire Photocontrol Receptacle, Add	16.79	
For Ripley Long-Life Twist Lock Photocontrol, Add	30.05	



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0101	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	740.99	141.27
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-45.84	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-64.18	
			<i>For &gt;2,500, Deduct</i>	-82.52	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0102	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	774.74	144.04
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-48.67	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-68.13	
			<i>For &gt;2,500, Deduct</i>	-87.60	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0103	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	856.75	146.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-56.42	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-78.99	
			<i>For &gt;2,500, Deduct</i>	-101.56	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0104	EA		Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....	914.07	148.48
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-61.71	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-86.40	
			<i>For &gt;2,500, Deduct</i>	-111.08	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0105	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	491.12	127.42
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-23.63	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-33.08	
			<i>For &gt;2,500, Deduct</i>	-42.53	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0106	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	534.20	130.74
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-27.27	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-38.18	
			<i>For &gt;2,500, Deduct</i>	-49.09	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0107	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	572.10	133.24
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.56	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-42.79	
			<i>For &gt;2,500, Deduct</i>	-55.01	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0108	EA		Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	605.24	136.29
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.27	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-46.57	
			<i>For &gt;2,500, Deduct</i>	-59.88	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0109	EA		Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	638.02	137.40
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-36.32	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-50.85	
			<i>For &gt;2,500, Deduct</i>	-65.38	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 19 00-0110	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....		747.90	142.38
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-46.31	
		For >1,000 To 2,500, Deduct		-64.84	
		For >2,500, Deduct		-83.37	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0111	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....		836.90	145.15
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-54.66	
		For >1,000 To 2,500, Deduct		-76.52	
		For >2,500, Deduct		-98.39	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0112	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....		885.02	145.70
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-59.36	
		For >1,000 To 2,500, Deduct		-83.11	
		For >2,500, Deduct		-106.85	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0113	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....		931.84	147.37
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-63.71	
		For >1,000 To 2,500, Deduct		-89.20	
		For >2,500, Deduct		-114.68	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0114	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....		528.49	139.06
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-25.04	
		For >1,000 To 2,500, Deduct		-35.05	
		For >2,500, Deduct		-45.07	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0115	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....		566.52	140.45
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-28.56	
		For >1,000 To 2,500, Deduct		-39.99	
		For >2,500, Deduct		-51.42	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0116	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....		417.68	127.14
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-16.34	
		For >1,000 To 2,500, Deduct		-22.87	
		For >2,500, Deduct		-29.41	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0117	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....		424.60	128.25
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-16.81	
		For >1,000 To 2,500, Deduct		-23.53	
		For >2,500, Deduct		-30.26	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	
26 56 19 00-0118	EA	Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....		456.62	130.74
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For >500 To 1,000, Deduct		-19.51	
		For >1,000 To 2,500, Deduct		-27.32	
		For >2,500, Deduct		-35.12	
		For Twist Lock Shorting Cap, Add		5.60	
		For ANSI 7-wire Photocontrol Receptacle, Add		16.79	
		For Ripley Long-Life Twist Lock Photocontrol, Add		30.05	



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0119	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	669.28	141.27
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-38.67	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-54.14	
			<i>For &gt;2,500, Deduct</i>	-69.61	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0120	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	852.11	145.70
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-56.07	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-78.50	
			<i>For &gt;2,500, Deduct</i>	-100.93	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0121	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	768.59	146.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For &gt;500 To 1,000, Deduct</i>	-47.61	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-66.65	
			<i>For &gt;2,500, Deduct</i>	-85.69	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0122	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	404.14	127.42
			<i>For &gt;500 To 1,000, Deduct</i>	-14.93	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-20.90	
			<i>For &gt;2,500, Deduct</i>	-26.87	
			<i>For Twist Lock Shorting Cap, Add</i>	5.60	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.79	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	30.05	
26 56 19 00-0123			LED, Wall Packs <sup>(26 56 19)</sup>		
26 56 19 00-0124			Full Cutoff, LED Wall Packs <sup>(26 56 19 00-0123)</sup>		
26 56 19 00-0125			Full Cutoff, LED Wall Packs (Lithonia) <sup>(26 56 19 00-0124)</sup>		
26 56 19 00-0126	EA		30 LEDs, 57 System Watts, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,311.34	96.95
26 56 19 00-0127	EA		30 LEDs, 35 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,432.64	96.95
26 56 19 00-0128			Full Cutoff, LED Wall Packs (CREE® BetaLED®) <sup>(26 56 19 00-0124)</sup>		
26 56 19 00-0129			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <sup>(26 56 19 00-0128)</sup>		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0130	EA		20 LEDs, 26 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	836.14	94.19
			Note: Includes 350mA or 525mA driver.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Bird Spikes, Add</i>	43.22	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0131	EA		40 LEDs, 47 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,081.94	99.72
			Note: Includes 350mA or 525mA driver.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Bird Spikes, Add</i>	43.77	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0132	EA		60 LEDs, 68 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,214.25	105.26
			Note: Includes 350mA or 525mA driver.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Bird Spikes, Add</i>	44.33	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	
26 56 19 00-0133	EA		80 LEDs, 90 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,573.50	110.81
			Note: Includes 350mA or 525mA driver.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	17.88	
			<i>For Bird Spikes, Add</i>	44.88	
			<i>For Fuse, Add</i>	53.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
			<i>For 480 Volt, Add</i>	80.47	
			<i>For Multi-Level, Add</i>	116.23	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0134 EA 100 LEDs, 111 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,819.29	116.34
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For Bird Spikes, Add	45.43	
For Fuse, Add	53.64	
For 0 To 10 Volt Dimming, Add	53.64	
For 480 Volt, Add	80.47	
For Multi-Level, Add	116.23	
26 56 19 00-0135 EA 120 LEDs, 132 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	2,065.09	121.88
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For Bird Spikes, Add	45.99	
For Fuse, Add	53.64	
For 0 To 10 Volt Dimming, Add	53.64	
For 480 Volt, Add	80.47	
For Multi-Level, Add	116.23	
<b>26 56 19 00-0136 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56</b>		
<small>19 00-0128)</small>		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0137 EA 25 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	487.61	94.19
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For 0 To 10 Volt Dimming, Add	53.64	
For Multi-Level, Add	53.64	
26 56 19 00-0138 EA 42 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	568.52	99.72
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For 0 To 10 Volt Dimming, Add	53.64	
For Multi-Level, Add	53.64	
<b>26 56 19 00-0139 Open Face LED Wall Pack (26 56 19 00-0123)</b>		
Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0140 EA 3,640 Lumens, 28 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	525.44	101.74
26 56 19 00-0141 EA 5,540 Lumens, 40 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	558.02	101.74
26 56 19 00-0142 EA 7,065 Lumens, 50 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	575.09	101.74
26 56 19 00-0143 EA 11,375 Lumens, 80 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	588.93	101.74
26 56 19 00-0144 EA 16,945 Lumens, 120 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	692.73	101.74
<b>26 56 19 00-0145 LED, Pole Mounted (26 56 19)</b>		
<b>26 56 19 00-0146 LED, Pole Mounted (Dialight) (26 56 19 00-0145)</b>		
26 56 19 00-0147 EA 131 System Watts, Enclosed And Gasketed, Exterior Roadway Fixture (Dialight SL2C4ELGH).....	1,237.54	158.44
<b>26 56 19 00-0148 LED, Pole Mounted (LED-Era) (26 56 19 00-0145)</b>		
26 56 19 00-0149 EA 88 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5).....	1,509.31	144.04
26 56 19 00-0150 EA 124 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7).....	1,789.77	158.44
<b>26 56 19 00-0151 LED, Pole Mounted (Lighting Science Group) (26 56 19 00-0145)</b>		
26 56 19 00-0152 EA 50 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B).....	1,114.88	129.64
26 56 19 00-0153 EA 75 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B).....	1,143.69	144.04
26 56 19 00-0154 EA 100 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B).....	1,235.06	151.25
26 56 19 00-0155 EA 100 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B).....	1,235.06	151.25
26 56 19 00-0156 EA 150 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B).....	1,263.87	165.65
26 56 19 00-0157 EA 150 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B).....	1,263.87	165.65
26 56 19 00-0158 EA 86 System Watts, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	1,454.54	144.04
<b>26 56 19 00-0159 LED, Area Fixtures (26 56 19)</b>		
<b>26 56 19 00-0160 Pole Mount, LED Area Fixtures (26 56 19 00-0159)</b>		
<b>26 56 19 00-0161 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26</b>		
<small>56 19 00-0160)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0162 EA 20 LEDs, 45 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,557.42	94.19
26 56 19 00-0163 EA 40 LEDs, 91 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,758.04	99.72
26 56 19 00-0164 EA 80 LEDs, 188 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,969.71	110.81
26 56 19 00-0165 EA 100 LEDs, 218 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,980.79	116.34



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 56 19 00-0166 Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG)</b> <small>(26 56 19 00-0160)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0167 EA 40 LEDs, 47 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,127.36	99.72
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	35.46	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0168 EA 60 LEDs, 68 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,361.33	105.26
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	36.02	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0169 EA 80 LEDs, 90 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,684.73	110.81
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	36.57	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0170 EA 100 LEDs, 111 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,918.69	116.34
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	37.12	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0171 EA 120 LEDs, 132 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,152.67	121.88
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	37.68	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0172 EA 140 LEDs, 157 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,457.89	127.42
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	38.23	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
26 56 19 00-0173 EA 160 LEDs, 179 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,691.84	132.96
For Backlight Shielding, Add	21.23	
For Type II Medium Optic, Add	38.79	
For 347-480 Volt, Add	61.79	
For Multi-Level Drive Currents, Add	212.27	
<b>26 56 19 00-0174 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO)</b> <small>(26 56 19 00-0160)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0175 EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	1,988.10	121.88
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For Bird Spikes, Add	40.36	
For 5,000K Color Temperature, Add	44.71	
For Fuse, Add	53.64	
For 0 To 10 Volt Dimming, Add	53.64	
For 480 Volt, Add	80.47	
For Multi-Level, Add	116.23	
For 1,000mA Driver, Add	150.22	
26 56 19 00-0176 EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	3,357.86	149.58
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	17.88	
For 5,000K Color Temperature, Add	44.71	
For Fuse, Add	53.64	
For 0 To 10 Volt Dimming, Add	53.64	
For Bird Spikes, Add	60.04	
For Multi-Level, Add	116.23	
For 1,000mA Driver, Add	150.21	
For 480 Volt, Add	160.93	
<b>26 56 19 00-0177 Wall Mount, LED Area Fixtures</b> <small>(26 56 19 00-0159)</small>		
<b>26 56 19 00-0178 Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW)</b> <small>(26 56 19 00-0177)</small> Note: UL wet listed. Includes 4,000K color temperature, 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0179 EA 20 LEDs, 47 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,099.98	94.19
26 56 19 00-0180 EA 30 LEDs, 71 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,122.15	105.26
<b>26 56 19 00-0181 Surface Mount, LED Parking Structure Fixtures</b> <small>(26 56 19 00-0159)</small>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 56 19 00-0182		<b>Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG)</b> <small>(26 56 19 00-0181)</small> Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0183	EA	40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	993.94	99.72
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0184	EA	60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,227.90	105.26
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0185	EA	80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,461.85	110.81
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0186	EA	100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,695.81	116.34
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0187		<b>Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304)</b> <small>(26 56 19 00-0181)</small> Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0188	EA	40 LEDs, 47 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	957.55	99.72
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0189	EA	60 LEDs, 68 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,058.09	105.26
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0190		<b>Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG)</b> <small>(26 56 19 00-0181)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0191	EA	3,700 Lumens, 50 System Watts, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	634.46	99.72
26 56 19 00-0192		<b>Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG)</b> <small>(26 56 19 00-0181)</small> Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0193	EA	70 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,207.21	105.26
26 56 19 00-0194	EA	110 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,229.36	116.34
26 56 19 00-0195		<b>Surface Mount, LED Canopy Fixtures</b> <small>(26 56 19 00-0195)</small>		
26 56 19 00-0196		<b>Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG)</b> <small>(26 56 19 00-0195)</small> Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0197	EA	40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,154.66	99.72
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0198	EA	60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,388.62	105.26
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0199	EA	80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,622.57	110.81
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0200	EA	100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,856.53	116.34
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0201	EA	120 LEDs, 132 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,090.50	121.88
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0202	EA	140 LEDs, 157 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,413.92	127.42
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0203	EA	160 LEDs, 179 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,647.87	132.96
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0204	EA	200 LEDs, 221 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,115.80	144.04
		<i>For Multi-Level Drive Currents, Add</i>	212.27	
26 56 19 00-0205	EA	240 LEDs, 264 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,572.65	149.58
		<i>For Multi-Level Drive Currents, Add</i>	212.27	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0206 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0195)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0207 EA 8,000 Lumens, 82 System Watts, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	793.21	110.81
26 56 19 00-0208 Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0159)</small>		
26 56 19 00-0209 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0208)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0210 EA 40 LEDs, 47 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	975.74	99.72
26 56 19 00-0211 EA 60 LEDs, 68 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,076.28	105.26
26 56 19 00-0212 Surface Mount, LED Area Fixtures <small>(26 56 19 00-0159)</small>		
26 56 19 00-0213 Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0212)</small> Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0214 EA 50 LEDs, 59 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	820.66	99.72
26 56 19 00-0215 EA 50 LEDs, 59 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	892.84	99.72
26 56 19 00-0216 EA 68 LEDs, 79 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	758.14	110.81
26 56 19 00-0217 EA 68 LEDs, 79 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	923.71	110.81
26 56 19 00-0218 Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0212)</small> Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0219 EA 13 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	270.58	36.63
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 19 00-0220 EA 20 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	315.02	36.63
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 19 00-0221 EA 30 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	399.68	36.63
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 19 00-0222 Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0159)</small>		
26 56 19 00-0223 Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0222)</small>		
26 56 19 00-0224 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	455.81	42.75
26 56 19 00-0225 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	728.34	39.03
26 56 19 00-0226 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	923.08	32.53
26 56 19 00-0227 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,117.80	26.01
26 56 19 00-0228 Post Top, LED Area Fixtures <small>(26 56 19 00-0159)</small>		
26 56 19 00-0229 Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0228)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0230 EA 1,800 Lumens, 27 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,307.52	152.36
26 56 19 00-0231 EA 3,400 Lumens, 54 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	1,435.47	152.36
26 56 19 00-0232 EA 77 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	1,536.62	152.36
26 56 19 00-0233 Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0228)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0234 EA 3,200 Lumens, 45 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	1,528.37	152.36
For >25 To 500, Deduct	-85.66	
For >500, Deduct	-281.44	
26 56 19 00-0235 EA 6,515 Lumens, 80 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	1,561.28	152.36
For >25 To 500, Deduct	-87.96	
For >500, Deduct	-289.01	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 56 19 00-0236		<b>Post Top, LED Area Fixtures (General Electric EPTC)</b> <small>(26 56 19 00-0228)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0237	EA	3,200 Lumens, 45 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,082.75	152.36
		<i>For &gt;25 To 500, Deduct</i>	-54.46	
		<i>For &gt;500, Deduct</i>	-225.63	
26 56 19 00-0238	EA	6,150 Lumens, 80 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3) .....	1,132.01	152.36
		<i>For &gt;25 To 500, Deduct</i>	-57.91	
		<i>For &gt;500, Deduct</i>	-215.10	
26 56 19 00-0239		<b>Post Top, LED Area Fixtures (General Electric EPST)</b> <small>(26 56 19 00-0228)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0240	EA	3,135 Lumens, 45 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....	858.85	152.36
		<i>For &gt;25 To 500, Deduct</i>	-38.79	
		<i>For &gt;500, Deduct</i>	-116.37	
26 56 19 00-0241	EA	6,115 Lumens, 80 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3) .....	908.11	152.36
		<i>For &gt;25 To 500, Deduct</i>	-42.24	
		<i>For &gt;500, Deduct</i>	-126.72	
26 56 19 00-0242		<b>Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR)</b> <small>(26 56 19 00-0228)</small> Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0243	EA	13,800 Lumens, 130 System Watts, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....	2,615.39	152.36
26 56 19 00-0244		<b>LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53)</b> <small>(26 56 19 00-0228)</small> Note: Includes 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0245	EA	LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	720.12	83.10
		<i>For 0 To 10 Volt Dimming, Add</i>	53.64	
26 56 19 00-0246		<b>LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)</b> <small>(26 56 19 00-0228)</small> Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0247	EA	LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) .....	453.95	17.73
		<i>For Backlight Control Shield, Add</i>	35.47	
26 56 19 00-0248		<b>Surface Mount, LED Strip Fixtures (Sylvania)</b> <small>(26 56 19 00-0159)</small>		
26 56 19 00-0249	EA	4' Long, 5,200 Lumens, 40 Watts, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D).....	317.01	34.01
<b>26 56 21</b>		<b>HID Exterior Lighting</b> <small>(26 56)</small>		
26 56 21 00-0001		<b>High Mast Fixtures</b> <small>(26 56 21)</small>		
26 56 21 00-0002		<b>Metal Halide, High Mast Fixtures</b> <small>(26 56 21 00-0001)</small>		
26 56 21 00-0003	EA	400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	1,330.35	136.94
26 56 21 00-0004	EA	400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	1,419.88	136.94
26 56 21 00-0005	EA	750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	1,412.14	156.44
26 56 21 00-0006	EA	750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	1,465.86	156.44
26 56 21 00-0007	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	1,491.14	195.55
26 56 21 00-0008	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	1,544.86	195.55
26 56 21 00-0009		<b>High Pressure Sodium, High Mast Fixtures</b> <small>(26 56 21 00-0001)</small>		
26 56 21 00-0010	EA	400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux .....	1,374.93	136.94
26 56 21 00-0011	EA	400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	1,428.65	136.94
26 56 21 00-0012	EA	600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	1,655.22	144.75
26 56 21 00-0013	EA	750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	1,697.72	156.44
26 56 21 00-0014	EA	1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	1,803.57	195.55
26 56 21 00-0015		<b>HID, Pole Mounted</b> <small>(26 56 21)</small>		
26 56 21 00-0016		<b>Metal Halide, Pole Mounted</b> <small>(26 56 21 00-0015)</small>		
26 56 21 00-0017	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	518.82	223.29
26 56 21 00-0018	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	581.98	242.37
26 56 21 00-0019	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	672.51	260.72





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	863.88	305.57
<b>26 56 21 00-0021 High Pressure Sodium, Pole Mounted</b> <small>(26 56 21 00-0015)</small>		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	602.21	260.72
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	619.09	260.72
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	647.33	260.72
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	719.23	260.72
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	831.44	260.72
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture.....	831.58	260.72
<b>26 56 21 00-0028 Low Pressure Sodium, Pole Mounted</b> <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed .....	517.77	141.83
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....	581.53	208.58
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....	667.76	208.58
<b>26 56 21 00-0032 Metal Halide, Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0033 Metal Halide, Pole Mount, Area Fixtures</b> <small>(26 56 21 00-0032)</small>		
Note: Includes pulse start ballast.		
26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount .....	737.72	136.94
26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount .....	809.76	150.64
26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount .....	894.40	164.33
26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount .....	954.84	191.72
<b>26 56 21 00-0038 High Pressure Sodium, Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0039 Pole Mount, High Pressure Sodium Area Fixtures</b> <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	610.79	109.56
26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	673.55	136.94
26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	738.46	164.33
26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	787.72	191.72
<b>26 56 21 00-0044 Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0045 Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	491.04	208.58
26 56 21 00-0047 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	556.15	234.66
26 56 21 00-0048 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	658.40	260.72
26 56 21 00-0049 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	850.75	305.57
<b>26 56 21 00-0050 High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	465.91	178.34
26 56 21 00-0052 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	504.69	189.81
26 56 21 00-0053 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	543.18	200.24
26 56 21 00-0054 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	561.85	208.58
26 56 21 00-0055 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	622.20	234.66
26 56 21 00-0056 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	671.57	260.72
26 56 21 00-0057 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	925.18	305.57
<b>26 56 21 00-0058 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0059 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	530.25	140.80
26 56 21 00-0061 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	553.69	156.44
26 56 21 00-0062 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	595.95	178.34
26 56 21 00-0063 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	614.27	189.81
26 56 21 00-0064 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	633.56	200.24
26 56 21 00-0065 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	663.39	208.58
26 56 21 00-0066 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	725.91	234.66
26 56 21 00-0067 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	870.69	260.72
<b>26 56 21 00-0068 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	584.13	156.44
26 56 21 00-0070 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	621.78	178.34

**26 Electrical**  
**26 50 Lighting**  
 26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	644.41	189.81
26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	672.98	200.24
26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	689.25	208.58
26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	753.10	234.66
26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	942.93	260.72
<b>26 56 21 00-0076 Wall Packs (26 56 21)</b>		
<b>26 56 21 00-0077 Non Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)</b>		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	257.86	50.86
26 56 21 00-0079 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	273.33	50.86
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	273.33	50.86
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	348.31	50.86
<b>26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)</b>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	469.33	50.86
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	474.89	50.86
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	479.70	50.86
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	470.93	50.86
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	434.85	50.86
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	415.03	50.86
<b>26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)</b>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	492.16	50.86
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	497.23	50.86
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	488.46	50.86
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	495.52	50.86
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	495.52	50.86
<b>26 56 21 00-0095 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	484.73	67.75
26 56 21 00-0097 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	484.73	67.75
26 56 21 00-0098 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	457.57	67.75
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	467.98	67.75
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	467.98	67.75
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	437.87	67.75
<b>26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	500.82	67.75
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	500.82	67.75
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	500.82	67.75
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	484.84	67.75
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	484.84	67.75
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	484.84	67.75
<b>26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack.....	630.79	67.75
<b>26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. Lithonia TWR2.		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	610.31	83.93
Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	647.12	83.93
Note: 9-1/4" x 17-7/8" x 12-1/2".		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	691.01	83.93
Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	703.09	83.93
Note: 9-1/4" x 17-7/8" x 12-1/2".		
<b>26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	657.66	83.93
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	699.02	83.93
<b>26 56 21 00-0119 Non Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 21 00-0076)</b>		
Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	626.47	101.74



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0121 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack .....	582.66	101.74
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack .....	616.33	101.74
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack .....	619.68	101.74
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack .....	623.20	101.74
<b>26 56 21 00-0125 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 21 00-0076)</b>		
Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	626.48	101.74
26 56 21 00-0127 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	641.10	101.74
26 56 21 00-0128 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	684.91	101.74
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	655.71	101.74
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	670.32	101.74
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	699.50	101.74
<b>26 56 21 00-0132 Semi Cutoff, Induction Wall Packs (26 56 21 00-0076)</b>		
<b>26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132)</b>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70) .....	748.41	94.19
26 56 21 00-0135 EA 80 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80) .....	765.74	99.72
26 56 21 00-0136 EA 100 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100) .....	783.06	105.26
26 56 21 00-0137 EA 120 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120) .....	869.02	110.81
<b>26 56 21 00-0138 Wall Pack Accessories (26 56 21 00-0076)</b>		
26 56 21 00-0139 EA Photocell For Wall Pack .....	95.65	25.44
26 56 21 00-0140 EA Wire Guard For Mini And Small Wall Pack .....	105.01	25.44
26 56 21 00-0141 EA Wire Guard For Medium And Large Wall Pack .....	144.16	25.44
26 56 21 00-0142 EA Clear Polycarbonate Vandal Guard For Wall Packs .....	200.66	25.44
26 56 21 00-0143 EA Full Cutoff Visor For Wall Pack .....	102.46	25.44
<b>26 56 21 00-0144 Induction, Roadway Lighting (26 56 21)</b>		
<b>26 56 21 00-0145 Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0144)</b>		
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0146 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	719.04	166.21
26 56 21 00-0147 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	805.93	171.74
26 56 21 00-0148 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	828.08	182.83
26 56 21 00-0149 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	850.25	193.90
26 56 21 00-0150 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	1,035.69	199.45
26 56 21 00-0151 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....	1,052.84	204.98
26 56 21 00-0152 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....	655.36	166.21
26 56 21 00-0153 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....	751.35	171.74
26 56 21 00-0154 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....	773.50	182.83
26 56 21 00-0155 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....	795.67	193.90
<b>26 56 21 00-0156 Induction, Area Fixtures (26 56 21)</b>		
<b>26 56 21 00-0157 Post Top, Induction Area Fixtures (26 56 21 00-0156)</b>		
<b>26 56 21 00-0158 Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0157)</b>		
Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0159 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....	852.05	152.36
26 56 21 00-0160 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....	939.99	152.36
26 56 21 00-0161 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....	939.99	152.36
26 56 21 00-0162 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....	939.99	152.36
<b>26 56 21 00-0163 Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0156)</b>		
<b>26 56 21 00-0164 Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0163)</b>		
26 56 21 00-0165 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	750.60	138.51
26 56 21 00-0166 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	807.70	141.27
26 56 21 00-0167 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	819.30	144.04
26 56 21 00-0168 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	830.90	146.81
26 56 21 00-0169 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	842.51	149.58
26 56 21 00-0170 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	860.17	152.36
26 56 21 00-0171 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	907.24	144.04
26 56 21 00-0172 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	918.84	146.81
26 56 21 00-0173 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	930.45	149.58
26 56 21 00-0174 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC) .....	973.89	152.36

26	<b>26</b>	<b>Electrical</b>
	26 50	Lighting
	26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0175 Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0156)</small>		
26 56 21 00-0176 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0175)</small> Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0177 EA 70 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70).....	779.61	94.19
26 56 21 00-0178 EA 80 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80).....	803.18	99.72
26 56 21 00-0179 EA 100 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100).....	826.74	105.26

**END OF SECTION 26**

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## About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2020.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

## MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



## The Unit Prices Include:

### LABOR COSTS:

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

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### EQUIPMENT COSTS:

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

### MATERIAL COSTS:

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

## The Adjustment Factors Include:

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

### BUSINESS COSTS:

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

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

### PROJECT RELATED COSTS:

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

sleet or snow. Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.

- Daily clean-up.
- Final professional clean-up.

### PRICE VARIATIONS:

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

### SUMMARY:

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

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

### General Rules:

- Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than

2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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

#### DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner

designated area, located within 125' of the project site.

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

#### WORKING HEIGHT:

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

#### FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying

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required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate tasks.

equipment, spare parts, services, and work required by a Technical Specification shall be considered included in the unit price, unless the task description states otherwise.

### ASSEMBLIES:

- Assembly tasks take precedence over individual component tasks.

### RESTRICTED AND CONFINED SPACES:

- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.

### TECHNICAL SPECIFICATIONS:

- Technical Specifications for tasks shall be interpreted as follows: All labor, material,

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### Or Equals:

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

### Useful Information:

#### UNIT OF MEASURE DEFINITIONS:

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

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

Clay	3220	2150	3570
Gneiss	4550	2720	3180

**BULK FACTORS FOR DEMOLITION:**

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

**CONVERSIONS:**

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

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

**1 Centimeter** = 0.3937 Inches = 0.0328 Feet

**1 Cubic Foot** = 0.03704 Cubic Yards = 0.02832 Cubic Meters

**1 Cubic Meter** = 1.3080 Cubic Yards = 35.3147 Cubic Feet

**1 Cubic Yard** = 27 Cubic Feet = 0.7646 Cubic Meters

**1 Foot** = 12 Inches = 0.3048 Meters

**1 Inch** = 2.54 Centimeters = 0.0254 Meters

**1 Kilogram** = 2.2046 Pounds

**1 Kilometer** = 0.6214 Miles = 3280 Feet

**1 Meter** = 100 Centimeters = 3.2808 Feet

**1 Mile** = 5280 Feet = 1.6093 Kilometers

**1 Pound** = 0.4536 Kilograms

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

**1 Square Meter** = 1.1960 Square Yards = 10.7639 Square Feet

**1 Square Yard** = 9 Square Feet = 0.8361 Square Meters

**MATERIAL WEIGHTS:**

**EARTHEN MATERIAL**

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

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

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**1 Ton = 2000 Pounds = 907.185 Kilograms**

**1 Yard = 3 Feet = 0.9144 Meters**

## TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, eziQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

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

## STANDARD GEOMETRY:

### Circle

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

### Cylinder

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

### Sphere

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

**$\pi = 3.14159$**

### United Inch

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





MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

### 27 05 Common Work Results for Communications <sup>(27)</sup>

#### 27 05 26 Grounding and Bonding for Communications Systems <sup>(27 05)</sup>

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00) ..... Note: Excludes terminations.	671.27	104.11
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00) ..... Note: Excludes terminations.	868.37	138.85
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00) ..... Note: Excludes terminations.	1,363.11	208.23
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit .....	8.14	1.52
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK) .....	64.57	27.51
27 05 26 00-0006	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar .....	132.18	27.51
27 05 26 00-0007	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar .....	235.60	27.51
27 05 26 00-0008	EA	#6 AWG, Cable Runway Ground Strap.....	46.70	5.10
27 05 26 00-0009	EA	1/4" Screw Size, #6 AWG Compression Lug .....	18.30	5.10
27 05 26 00-0010	EA	3/8" Screw Size, #6 AWG Compression Lug .....	19.30	5.10
27 05 26 00-0011	EA	Two Mounting Hole, Ground Terminal Block.....	21.16	5.10

#### 27 05 29 Hangers And Supports For Communications Systems <sup>(27 05)</sup>

See CSI section 26 05 29 00-0000 for hangers and supports.

##### 27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29)</sup>

##### 27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29 00-0001)</sup>

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i>	7.12 -0.31 -0.61 -1.17 -1.73 1.38 1.53 0.41	2.55
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	7.43 -0.31 -0.63 -1.19 -1.76 1.38 1.53 1.44 5.12	2.55
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	7.92 -0.33 -0.65 -1.23 -1.81 1.38 1.53 1.76 6.37	2.55
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	12.11 -0.43 -0.86 -1.55 -2.23 1.38 1.53 0.94 5.64	2.55

##### 27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29 00-0001)</sup>

Note: Includes screw.

27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i>	7.86 -0.32 -0.65 -1.23 -1.81 1.38 1.53	2.55
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**27 Communications****27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB) .....	9.74	2.55
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.37	
For >500, Deduct	-1.99	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.38	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0010 EA 2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB) .....	10.66	2.55
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.44	
For >500, Deduct	-2.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.38	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0011 EA 4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB) .....	13.94	2.55
For >50 To 100, Deduct	-0.48	
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.68	
For >500, Deduct	-2.41	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.38	
For Work In Restricted Working Space, Add	1.53	
<b>27 05 29 00-0012 Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)</b>		
Note: Excludes strut.		
27 05 29 00-0013 EA 3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4) .....	8.21	2.55
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.25	
For >500, Deduct	-1.84	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0014 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4) .....	9.46	2.55
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.35	
For >500, Deduct	-1.97	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0015 EA 2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4) .....	10.11	2.55
For >50 To 100, Deduct	-0.38	
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.40	
For >500, Deduct	-2.03	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0016 EA 4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4) .....	13.22	2.55
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-2.34	
For Work In Restricted Working Space, Add	1.53	
<b>27 05 29 00-0017 T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)</b>		
Note: Excludes T-Bar.		
27 05 29 00-0018 EA 3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28) .....	9.58	2.55
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.36	
For >500, Deduct	-1.98	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0019 EA 1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28) .....	11.71	2.55
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-2.19	
For Work In Restricted Working Space, Add	1.53	
27 05 29 00-0020 EA 2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28) .....	12.27	2.55
For >50 To 100, Deduct	-0.43	
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-2.25	
For Work In Restricted Working Space, Add	1.53	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0021				<b>Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small>		
				Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022	EA			3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6) .....	8.04	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.33	
				<i>For &gt;100 To 250, Deduct</i>	-0.66	
				<i>For &gt;250 To 500, Deduct</i>	-1.24	
				<i>For &gt;500, Deduct</i>	-1.82	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0023	EA			1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6) .....	8.33	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.34	
				<i>For &gt;100 To 250, Deduct</i>	-0.67	
				<i>For &gt;250 To 500, Deduct</i>	-1.26	
				<i>For &gt;500, Deduct</i>	-1.85	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0024	EA			2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6) .....	9.80	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.37	
				<i>For &gt;100 To 250, Deduct</i>	-0.75	
				<i>For &gt;250 To 500, Deduct</i>	-1.37	
				<i>For &gt;500, Deduct</i>	-2.00	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0025				<b>Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small>		
				Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA			1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB) .....	9.63	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.37	
				<i>For &gt;100 To 250, Deduct</i>	-0.74	
				<i>For &gt;250 To 500, Deduct</i>	-1.36	
				<i>For &gt;500, Deduct</i>	-1.98	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0027	EA			2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB) .....	10.32	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.39	
				<i>For &gt;100 To 250, Deduct</i>	-0.77	
				<i>For &gt;250 To 500, Deduct</i>	-1.41	
				<i>For &gt;500, Deduct</i>	-2.05	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0028	EA			4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB) .....	13.75	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.47	
				<i>For &gt;100 To 250, Deduct</i>	-0.94	
				<i>For &gt;250 To 500, Deduct</i>	-1.67	
				<i>For &gt;500, Deduct</i>	-2.40	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0029				<b>Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small>		
27 05 29 00-0030	EA			3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A) .....	9.53	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.37	
				<i>For &gt;100 To 250, Deduct</i>	-0.73	
				<i>For &gt;250 To 500, Deduct</i>	-1.35	
				<i>For &gt;500, Deduct</i>	-1.97	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0031	EA			1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A) .....	10.77	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.40	
				<i>For &gt;100 To 250, Deduct</i>	-0.79	
				<i>For &gt;250 To 500, Deduct</i>	-1.45	
				<i>For &gt;500, Deduct</i>	-2.10	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0032	EA			2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A) .....	11.42	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.41	
				<i>For &gt;100 To 250, Deduct</i>	-0.83	
				<i>For &gt;250 To 500, Deduct</i>	-1.49	
				<i>For &gt;500, Deduct</i>	-2.16	
				<i>For Work In Restricted Working Space, Add</i>	1.53	
27 05 29 00-0033	EA			4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A) .....	15.00	2.55
				<i>For &gt;50 To 100, Deduct</i>	-0.50	
				<i>For &gt;100 To 250, Deduct</i>	-1.01	
				<i>For &gt;250 To 500, Deduct</i>	-1.76	
				<i>For &gt;500, Deduct</i>	-2.52	
				<i>For Work In Restricted Working Space, Add</i>	1.53	

**27 Communications****27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425) <sup>(27 05 29)</sup></b>		
27 05 29 00-0035 EA Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425) .....	25.93	3.36
For >50 To 100, Deduct	-0.90	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-4.63	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.65	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0036 EA Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	26.39	3.36
For >50 To 100, Deduct	-0.91	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-3.25	
For >500, Deduct	-4.68	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0037 EA Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	28.79	3.36
For >50 To 100, Deduct	-0.97	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-3.43	
For >500, Deduct	-4.92	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0038 EA >1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	25.86	3.36
For >50 To 100, Deduct	-0.90	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-3.21	
For >500, Deduct	-4.62	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0039 EA Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	26.97	3.36
For >50 To 100, Deduct	-0.93	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-3.30	
For >500, Deduct	-4.73	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0040 EA >1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425) .....	28.06	3.36
For >50 To 100, Deduct	-0.96	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-3.38	
For >500, Deduct	-4.84	
For Work In Restricted Working Space, Add	3.05	
27 05 29 00-0041 EA Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	26.59	3.36
For >50 To 100, Deduct	-0.92	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.27	
For >500, Deduct	-4.70	
For Work In Restricted Working Space, Add	3.05	
<b>27 05 33 Conduits And Backboxes For Communications Systems <sup>(27 05)</sup></b>		
See CSI section 26 05 33 00-0000 for conduit and boxes.		
<b>27 05 39 Surface Raceways For Communications Systems <sup>(27 05)</sup></b>		
See CSI section 26 05 33 00-0000 for surface raceways.		
<b>27 05 43 Underground Ducts And Raceways For Communications Systems <sup>(27 05)</sup></b>		
See CSI section 26 05 43 00-0000 for underground ducts and raceways.		
<b>27 05 46 Utility Poles For Communications Systems <sup>(27 05)</sup></b>		
See CSI section 26 05 46 00-0000 for utility poles.		
<b>27 05 53 Identification For Communications Systems <sup>(27 05)</sup></b>		
See CSI section 26 05 53 00-0000 for identification.		
<b>27 10 Structured Cabling <sup>(27)</sup></b>		
Note: Includes testing.		
<b>27 11 Communications Equipment Room Fittings <sup>(27 10)</sup></b>		
<b>27 11 16 Communications Cabinets, Racks, Frames, And Enclosures <sup>(27 11)</sup></b>		
<b>27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards <sup>(27 11 16)</sup></b>		
27 11 16 00-0002 EA 4' x 4' x 3/4" Fire Retardant Plywood Phone Backboard .....	72.88	26.45
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	46.80	
27 11 16 00-0003 EA 4' x 8' x 3/4" Fire Retardant Plywood Phone Backboard .....	144.94	52.91
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	93.59	
<b>27 11 16 00-0004 Terminal Cabinets <sup>(27 11 16)</sup></b>		
27 11 16 00-0005 EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	269.41	76.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0006 EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	334.74	83.93
27 11 16 00-0007 EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	385.20	96.65
27 11 16 00-0008 EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	399.50	99.19
27 11 16 00-0009 EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	479.70	101.74
27 11 16 00-0010 EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard.....	588.69	114.45
27 11 16 00-0011 EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	600.28	111.90
27 11 16 00-0012 EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	777.98	159.42
27 11 16 00-0013 EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	834.36	175.19
27 11 16 00-0014 EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	996.06	185.06
27 11 16 00-0015 EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	822.55	152.60
27 11 16 00-0016 EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	889.69	165.32
27 11 16 00-0017 EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,111.82	211.92
27 11 16 00-0018 EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,339.77	264.92
27 11 16 00-0019 EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,501.96	261.97
27 11 16 00-0020 EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,733.18	318.74
27 11 16 00-0021 <b>Equipment Racks And Cable Managers</b> <small>(27 11 16)</small>		
27 11 16 00-0022 <b>Equipment Racks</b> <small>(27 11 16 00-0021)</small> Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023 <b>Standard Equipment Racks</b> <small>(27 11 16 00-0022)</small>		
27 11 16 00-0024 <b>19" Width, Standard Equipment Racks</b> <small>(27 11 16 00-0023)</small>		
27 11 16 00-0025 EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03).....	507.43	162.78
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	9.09	
27 11 16 00-0026 EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15).....	704.82	172.95
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	17.95	
27 11 16 00-0027 EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08).....	761.42	183.12
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.76	
27 11 16 00-0028 <b>Universal Equipment Racks</b> <small>(27 11 16 00-0022)</small>		
27 11 16 00-0029 <b>Universal Equipment Racks</b> <small>(27 11 16 00-0028)</small>		
27 11 16 00-0030 <b>19" Width, EIA Universal Equipment Racks</b> <small>(27 11 16 00-0029)</small>		
27 11 16 00-0031 EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31).....	660.98	142.43
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	18.81	
27 11 16 00-0032 EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20).....	722.43	144.97
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.62	
27 11 16 00-0033 EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19).....	721.44	147.52
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.32	
27 11 16 00-0034 EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00).....	739.99	150.06
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.99	
27 11 16 00-0035 EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01).....	758.34	152.60
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.66	
27 11 16 00-0036 EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02).....	778.20	155.14
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.40	
27 11 16 00-0037 EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03).....	662.73	157.69
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	17.37	
27 11 16 00-0038 EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05).....	816.79	160.23
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.82	
27 11 16 00-0039 EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15).....	845.74	162.78
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.01	
27 11 16 00-0040 EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17).....	871.02	165.32
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.02	
27 11 16 00-0041 EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08).....	877.12	167.87
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.07	
27 11 16 00-0042 <b>23" Width, Universal Equipment Racks</b> <small>(27 11 16 00-0029)</small>		
27 11 16 00-0043 EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31).....	699.58	142.43
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.74	
27 11 16 00-0044 EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20).....	723.86	144.97
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.70	
27 11 16 00-0045 EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19).....	745.21	147.52
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.51	
27 11 16 00-0046 EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00).....	785.20	150.06
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.25	
27 11 16 00-0047 EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01).....	804.88	152.60
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.98	
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02).....	826.28	155.14
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.80	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03).....	711.36	157.69
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.80	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05).....	867.81	160.23
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.37	
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15).....	899.18	162.78
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.68	
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17).....	926.57	165.32
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.80	



<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 11</b>	<b>Communications Equipment Room Fittings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	932.76 29.85	167.87
<b>27 11 16 00-0054 35" Width, Universal Equipment Racks</b> (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	870.30 28.25	152.60
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	916.53 30.06	157.69
<b>27 11 16 00-0057 UL Listed Universal Equipment Racks</b> (27 11 16 00-0028) Note: UL listed as a communications circuit accessory.		
<b>27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks</b> (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	698.60 20.69	142.43
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	755.35 23.27	144.97
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	766.91 23.59	147.52
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	784.01 24.19	150.06
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	803.64 24.92	152.60
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	824.99 25.73	155.14
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	845.49 26.51	157.69
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	866.45 27.30	160.23
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	897.78 28.61	162.78
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	925.09 29.72	165.32
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	931.22 29.78	167.87
<b>27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks</b> (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	741.09 22.81	142.43
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	812.97 26.15	144.97
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	823.31 26.41	147.52
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	833.70 26.68	150.06
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	854.83 27.48	152.60
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	877.88 28.38	155.14
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	899.94 29.23	157.69
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	922.53 30.10	160.23
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	956.53 31.55	162.78
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	986.17 32.78	165.32
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	992.55 32.84	167.87
<b>27 11 16 00-0082 4-Post Equipment Racks And Server Frames</b> (27 11 16 00-0022)		
<b>27 11 16 00-0083 4-Post Equipment Racks</b> (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,412.58 45.20	254.33
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,542.62 50.68	264.51
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,665.27 55.80	274.68
<b>27 11 16 00-0087 4-Post Server Frame</b> (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,452.33 47.18	254.33
<b>27 11 16 00-0089 Cable Managers</b> (27 11 16 00-0021)		
<b>27 11 16 00-0090 Horizontal Cable Managers</b> (27 11 16 00-0089)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 11 16 00-0091</b> <b>Single-Sided, Horizontal Cable Managers</b> <small>(27 11 16 00-0090)</small>		
27 11 16 00-0092    EA    1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719).....	81.87	10.18
27 11 16 00-0093    EA    1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723).....	91.20	10.18
27 11 16 00-0094    EA    1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701).....	68.30	10.18
27 11 16 00-0095    EA    2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719).....	83.27	10.18
27 11 16 00-0096    EA    2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723).....	97.72	10.18
27 11 16 00-0097    EA    2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702).....	75.67	10.18
27 11 16 00-0098    EA    3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719).....	112.37	10.18
27 11 16 00-0099    EA    3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723).....	127.96	10.18
27 11 16 00-0100    EA    3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703).....	90.43	10.18
<b>27 11 16 00-0101</b> <b>Double-Sided, Horizontal Cable Managers</b> <small>(27 11 16 00-0090)</small>		
27 11 16 00-0102    EA    1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719).....	101.75	10.18
27 11 16 00-0103    EA    1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723).....	114.05	10.18
27 11 16 00-0104    EA    2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719).....	107.08	10.18
27 11 16 00-0105    EA    2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723).....	124.69	10.18
27 11 16 00-0106    EA    3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719).....	138.65	10.18
27 11 16 00-0107    EA    3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723).....	155.31	10.18
<b>27 11 16 00-0108</b> <b>Vertical Cable Managers</b> <small>(27 11 16 00-0089)</small>		
<b>27 11 16 00-0109</b> <b>Single-Sided, Vertical Cable Managers</b> <small>(27 11 16 00-0108)</small>		
27 11 16 00-0110    EA    3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701).....	183.58	15.26
27 11 16 00-0111    EA    6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701).....	259.19	15.26
27 11 16 00-0112    EA    10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701).....	417.78	15.26
27 11 16 00-0113    EA    12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701).....	473.11	15.26
27 11 16 00-0114    EA    3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703).....	196.49	15.26
27 11 16 00-0115    EA    6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703).....	279.47	15.26
27 11 16 00-0116    EA    10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703).....	454.67	15.26
27 11 16 00-0117    EA    12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703).....	509.99	15.26
27 11 16 00-0118    EA    3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715).....	222.31	15.26
27 11 16 00-0119    EA    6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715).....	307.14	15.26
27 11 16 00-0120    EA    10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715).....	509.99	15.26
27 11 16 00-0121    EA    12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715).....	565.31	15.26
<b>27 11 16 00-0122</b> <b>Double-Sided, Vertical Cable Managers</b> <small>(27 11 16 00-0108)</small>		
27 11 16 00-0123    EA    3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701).....	266.57	15.26
27 11 16 00-0124    EA    6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701).....	314.51	15.26
27 11 16 00-0125    EA    10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701).....	509.99	15.26
27 11 16 00-0126    EA    12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701).....	602.19	15.26
27 11 16 00-0127    EA    3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703).....	288.70	15.26
27 11 16 00-0128    EA    6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703).....	336.64	15.26
27 11 16 00-0129    EA    10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703).....	546.87	15.26
27 11 16 00-0130    EA    12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703).....	639.08	15.26
27 11 16 00-0131    EA    3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715).....	318.20	15.26
27 11 16 00-0132    EA    6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715).....	366.15	15.26
27 11 16 00-0133    EA    10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715).....	602.19	15.26
27 11 16 00-0134    EA    12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715).....	694.40	15.26
<b>27 11 16 00-0135</b> <b>Accessories For Vertical Cable Managers</b> <small>(27 11 16 00-0108)</small>		
27 11 16 00-0136    EA    Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716).....	112.56	10.18
27 11 16 00-0137    EA    Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717).....	119.93	10.18
27 11 16 00-0138    EA    Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718).....	127.31	10.18
27 11 16 00-0139    EA    Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726).....	116.24	10.18
27 11 16 00-0140    EA    Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727).....	127.31	10.18
27 11 16 00-0141    EA    Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728).....	138.37	10.18
27 11 16 00-0142    EA    Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746).....	131.00	10.18
27 11 16 00-0143    EA    Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747).....	142.06	10.18
27 11 16 00-0144    EA    Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748).....	153.13	10.18
27 11 16 00-0145    EA    Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756).....	138.37	10.18
27 11 16 00-0146    EA    Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757).....	153.13	10.18
27 11 16 00-0147    EA    Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758).....	164.19	10.18
27 11 16 00-0148    EA    Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001).....	94.11	10.18
27 11 16 00-0149    EA    Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701).....	108.87	10.18
27 11 16 00-0150    EA    Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001).....	113.85	10.18
27 11 16 00-0151    EA    Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001).....	71.99	10.18
<b>27 11 19</b> <b>Communications Termination Blocks And Patch Panels</b> <small>(27 11)</small>		
Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.		
<b>27 11 19 00-0001</b> <b>Computer Network Components</b> <small>(27 11 19)</small>		
<b>27 11 19 00-0002</b> <b>Ethernet Patch Panels</b> <small>(27 11 19 00-0001)</small>		
27 11 19 00-0003    EA    12 Port, Category 5E Patch Panel.....	205.63	50.86
27 11 19 00-0004    EA    24 Port, Category 5E Patch Panel.....	294.27	50.86

<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 11</b>	<b>Communications Equipment Room Fittings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel .....	378.14	50.86
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel .....	456.29	50.86
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel .....	604.55	63.59
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel .....	835.02	76.30
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel .....	248.53	50.86
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel .....	299.98	50.86
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel .....	498.23	50.86
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel .....	915.08	76.30
27 11 19 00-0013 EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP) .....	489.14	76.30
27 11 19 00-0014 EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP) .....	518.13	76.30
27 11 19 00-0015 EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289) .....	214.19	50.86
27 11 19 00-0016 EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications .....	36.05	
For >5 To 10 Cables, Deduct	-6.49	
For >10 Cables, Deduct	-14.42	
27 11 19 00-0017 EA Terminate One End Of A Twisted Pair Of Wires .....	9.91	
Note: Per each pair		
For >20 To 40 Pairs, Deduct	-1.59	
For >40 Pairs, Deduct	-3.77	
<b>27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)</b>		
<b>27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)</b>		
<b>27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)</b>		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing .....	109.47	22.89
27 11 19 00-0022 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing .....	159.03	22.89
27 11 19 00-0023 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing .....	232.37	22.89
27 11 19 00-0024 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing .....	344.55	38.15
27 11 19 00-0025 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing .....	475.11	38.15
<b>27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)</b>		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing .....	357.93	38.15
27 11 19 00-0028 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing .....	407.72	38.15
27 11 19 00-0029 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing .....	438.16	38.15
27 11 19 00-0030 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing .....	511.74	38.15
<b>27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)</b>		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing .....	443.25	38.15
For Splice Tray Bracket, Add	46.05	
27 11 19 00-0033 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing .....	517.30	38.15
For Splice Tray Bracket, Add	50.36	
27 11 19 00-0034 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing .....	642.09	38.15
For Splice Tray Bracket, Add	183.48	
<b>27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)</b>		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0036 EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing .....	559.43	38.15
27 11 19 00-0037 EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing .....	712.12	38.15
27 11 19 00-0038 EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing .....	804.67	38.15
27 11 19 00-0039 EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing .....	1,040.73	38.15
<b>27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)</b>		
Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0041 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing .....	496.13	22.89
27 11 19 00-0042 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing .....	688.23	38.15
27 11 19 00-0043 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing .....	721.66	38.15
<b>27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019)</b>		
Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing .....	519.24	22.89
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing .....	687.83	38.15
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing .....	806.10	38.15
<b>27 11 19 00-0048 Fiber Optic Cable Connector Panels (27 11 19 00-0018)</b>		
<b>27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	68.87	5.09
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	74.61	5.09
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	83.52	5.09
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	91.16	5.09
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	112.83	5.09
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	124.27	5.09
<b>27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)</b>		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	66.34	5.09
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	67.68	5.09
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	80.16	5.09
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	81.95	5.09
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	107.78	5.09
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	110.45	5.09
<b>27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)</b>		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	71.51	5.09
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	78.27	5.09
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	87.03	5.09
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	96.05	5.09
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	118.11	5.09
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	131.62	5.09
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	149.18	5.09
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	167.18	5.09
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	211.29	5.09
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	217.57	5.09
<b>27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)</b>		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	57.51	5.09
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	61.85	5.09
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	68.38	5.09
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	74.17	5.09
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	90.09	5.09
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	98.79	5.09
<b>27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)</b>		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	71.11	5.09
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	105.62	5.09
<b>27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)</b>		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	600.43	5.09
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	602.50	5.09
<b>27 11 19 00-0087 Fiber Optic Cable Splice Housings (27 11 19 00-0018)</b>		
<b>27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)</b>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	255.51	50.86
<b>27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)</b>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	370.87	38.15
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	376.26	38.15
<b>27 11 19 00-0093 Fiber Optic Cable Splice Trays (27 11 19 00-0087)</b>		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray.....	72.49	12.71
<b>27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018)</b>		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	145.05	38.15
<b>27 11 19 00-0097 Miscellaneous Accessories (27 11 19 00-0001)</b>		
27 11 19 00-0098 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	53.33	
27 11 19 00-0099 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	70.51	
27 11 19 00-0100 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	77.33	
27 11 19 00-0101 EA Wall Mount Bracket For 96 Port Patch Panel.....	86.33	
27 11 19 00-0102 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	335.45	50.86
<b>27 11 19 00-0103 Telephone Components (27 11 19)</b>		



<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 11</b>	<b>Communications Equipment Room Fittings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 11 19 00-0104</b>	<b>Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)</b>	
27 11 19 00-0105 EA Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	27.40	10.19
27 11 19 00-0106 EA Terminal Block, Fuse Holder 600 Volt, 6.3 Amp With Wire Range 22-8 AWG.....	46.57	10.19
27 11 19 00-0107 EA Terminal Block, Fuse Holder 600 Volt, 10 Amp With Wire Range 22-8 AWG.....	38.73	10.19
27 11 19 00-0108 EA Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	22.07	10.19
27 11 19 00-0109 EA Flat Terminal Block Connection With Wire Range 22-8 AWG.....	15.72	7.13
27 11 19 00-0110 EA Ground Terminal Block With Wire Range 22-8 AWG.....	28.23	10.19
27 11 19 00-0111 EA Terminal Block, Solderless Box With Lug 600 Volt, 60 Amp With Wire Range 22-8 AWG.....	22.07	10.19
27 11 19 00-0112 EA Terminal Block, Mini Box Lug 300 Volt, 30 Amp With Wire Range 22-8 AWG.....	15.60	7.13
27 11 19 00-0113 EA Flat Terminal Block Connection 300 Volt, 20 Amp With Wire Range 22-8 AWG.....	15.51	7.13
27 11 19 00-0114 EA Self Lifting Terminal Block, 300 Volt, 40 Amp Wire Connection With Wire Range 22-12 AWG.....	15.89	7.13
<b>27 11 19 00-0115</b>	<b>Terminal Block Mounting Channel (27 11 19 00-0103)</b>	
27 11 19 00-0116 EA Terminal Block Mounting Channel, .5 M Galvanized Steel.....	14.30	5.10
27 11 19 00-0117 EA Terminal Block Mounting Channel, 1 M Galvanized Steel.....	17.68	5.10
27 11 19 00-0118 EA Terminal Block Mounting Channel, 2 M Galvanized Steel.....	23.52	5.10
27 11 19 00-0119 EA Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	17.88	6.11
27 11 19 00-0120 EA Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	23.44	6.11
27 11 19 00-0121 EA Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	32.41	6.11
<b>27 11 19 00-0122</b>	<b>Outlet Termination Hardware (27 11 19 00-0103)</b>	
27 11 19 00-0123 EA Telephone Outlet Blocks.....	24.69	5.10
27 11 19 00-0124 EA Phone Outlet Block For Floor Box.....	83.37	38.66
Note: Excludes box.		
27 11 19 00-0125 EA Fiber Optic "SC" Type Modular Bulkhead.....	66.57	22.89
27 11 19 00-0126 EA Fiber Optic "ST" Type Modular Bulkhead.....	66.57	22.89
27 11 19 00-0127 EA Type "F" Coaxial Connector Male.....	40.06	15.26
27 11 19 00-0128 EA Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	95.03	25.44
27 11 19 00-0129 EA Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	95.03	25.44
27 11 19 00-0130 EA Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	111.49	25.44
27 11 19 00-0131 EA Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	111.49	25.44
27 11 19 00-0132 EA Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	102.83	25.44
27 11 19 00-0133 EA Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	836.39	127.17
27 11 19 00-0134 EA Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	45.45	10.18
Note: Excludes cable terminations.		
27 11 19 00-0135 EA 5-Pair, Connecting Block.....	2.86	1.02
27 11 19 00-0136 EA 4-Pair, Connecting Block.....	3.04	1.02
27 11 19 00-0137 EA Plastic Label Holder, Transparent.....	11.73	2.54
27 11 19 00-0138 EA Marked Label, White, 5-Pair.....	3.33	
27 11 19 00-0139 EA Marked Label, Blue, 4-Pair.....	3.33	
<b>27 11 19 00-0140</b>	<b>Terminations in Manhole or Junction Box (27 11 19 00-0103)</b>	
27 11 19 00-0141 EA 25 Pair Cable Termination In Manhole Or Junction Box.....	162.78	
27 11 19 00-0142 EA 50 Pair Cable Termination In Manhole Or Junction Box.....	325.55	
27 11 19 00-0143 EA 100 Pair Cable Termination In Manhole Or Junction Box.....	651.11	
27 11 19 00-0144 EA 150 Pair Cable Termination In Manhole Or Junction Box.....	976.66	
27 11 19 00-0145 EA 200 Pair Cable Termination In Manhole Or Junction Box.....	1,142.49	
27 11 19 00-0146 EA 300 Pair Cable Termination In Manhole Or Junction Box.....	1,713.22	
27 11 19 00-0147 EA 400 Pair Cable Termination In Manhole Or Junction Box.....	2,154.75	
27 11 19 00-0148 EA 500 Pair Cable Termination In Manhole Or Junction Box.....	2,693.95	
27 11 19 00-0149 EA 750 Pair Cable Termination In Manhole Or Junction Box.....	4,040.90	
27 11 19 00-0150 EA 1,000 Pair Cable Termination In Manhole Or Junction Box.....	4,900.54	
27 11 19 00-0151 EA 1,200 Pair Cable Termination In Manhole Or Junction Box.....	5,585.31	
<b>27 11 23</b>	<b>Communications Cable Management and Ladder Rack (27 11)</b>	
<b>27 11 23 00-0001</b>	<b>Equipment Supports (27 11 23)</b>	
27 11 23 00-0002 EA Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	17,897.45	801.64
27 11 23 00-0003 EA DVR Enclosure.....	1,343.73	200.39
27 11 23 00-0004 EA Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	4,764.09	400.79
27 11 23 00-0005 EA Panel, NEMA 12/27.00x21.00.....	386.20	100.20
27 11 23 00-0006 EA Panel, NEMA 12/8.75x6.88.....	118.29	100.20
27 11 23 00-0007 EA Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	147.26	100.20
27 11 23 00-0008 EA Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	4,062.71	100.20
27 11 23 00-0009 EA 12" x 5'-11" Tubular Runway.....	85.83	24.41
27 11 23 00-0010 EA 12" x 9'-11" Tubular Runway.....	148.15	40.69
27 11 23 00-0011 EA Shelf Bracket Support For Tubular Runway.....	27.29	7.63
27 11 23 00-0012 EA Straight Clamp Hardware For Tubular Runway.....	12.67	5.09
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway.....	13.28	5.09
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway.....	29.11	9.16
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway.....	59.70	15.26
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway.....	5.83	2.23
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway.....	31.92	12.71
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133).....	28.72	5.09
27 11 23 00-0019 LF Velcro CMP.....	2.40	1.02





<b>Communications</b>	<b>27</b>	<b>27</b>
Structured Cabling	27 10	
Communications Equipment Room Fittings	27 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**27 13 Communications Backbone Cabling** (27 10)

**27 13 13 Communications Copper Backbone Cabling** (27 13)

**27 13 13 13 Communications Copper Cable Splicing and Terminations** (27 13 13)

**27 13 13 13-0001 Building Entrance Terminals** (27 13 13 13)

27 13 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,697.07	223.02
27 13 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,311.84	371.70
27 13 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,320.01	595.19

**27 13 13 13-0005 Modular Plugs For Copper Communications Cable** (27 13 13 13)

27 13 13 13-0006	EA	Modular Plug For Non-Shielded Copper Communications Cable.....	23.86	
		Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
		For >5 To 10, Deduct	-3.05	
		For >10, Deduct	-6.09	
27 13 13 13-0007	EA	Modular Plug For Shielded Copper Communications Cable.....	27.15	
		Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
		For >5 To 10, Deduct	-3.43	
		For >10, Deduct	-6.86	

**27 13 13 13-0008 Testing And Certification Of Copper Communications Cable** (27 13 13 13)

Note: Use for existing systems.				
27 13 13 13-0009	EA	Test 1-Pair Of A Copper Communications Cable For Continuity.....	5.09	
		For >25-Pair, Deduct	-2.03	
27 13 13 13-0010	EA	Certify 1-Pair Of A Copper Communications Cable.....	7.63	
		For >25-Pair, Deduct	-3.05	
27 13 13 13-0011	EA	Certify And Document 1-Pair Of A Copper Communications Cable.....	12.21	
		For >25-Pair, Deduct	-4.88	
27 13 13 13-0012	EA	Test 4-Pair Cat 5-7 Telecommunications Cable For Continuity.....	20.35	
		For >25-Pair, Deduct	-8.12	
27 13 13 13-0013	EA	Certify 4-Pair Cat 5-7 Telecommunications Cable.....	30.52	
		For >25-Pair, Deduct	-12.18	
27 13 13 13-0014	EA	Certify And Document 4-Pair Cat 5-7 Telecommunications Cable.....	48.83	
		For >25-Pair, Deduct	-19.50	

**27 13 13 13-0015 Communications Termination Blocks** (27 13 13 13)

27 13 13 13-0016	EA	100-Pair, 110 Block With Legs.....	43.32	12.71
27 13 13 13-0017	EA	300-Pair, 110 Block With Legs.....	69.32	12.71
27 13 13 13-0018	EA	Clear Label Holder For 110 Wiring Block.....	10.69	5.09
27 13 13 13-0019	EA	4-Pair, 110C Connecting Block.....	5.88	2.54
27 13 13 13-0020	EA	5-Pair, 110C Connecting Block.....	5.97	2.54
27 13 13 13-0021	EA	100-Pair, 110 Jack Panel System.....	209.69	15.26
		Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0022	EA	300-Pair, 110 Jack Panel System.....	485.78	15.26
		Note: Includes twelve 8-pin modular jacks and mounting legs.		

**27 13 23 Communications Optical Fiber Backbone Cabling** (27 13)

**27 13 23 13 Communications Optical Fiber Splicing And Terminations** (27 13 23)

**27 13 23 13-0001 Fiber Optic Cable Connectors** (27 13 23 13)

27 13 23 13-0002	EA	ST Connector For Multimode Fiber Optic Cable.....	28.04	
27 13 23 13-0003	EA	ST Connector For Singlemode Fiber Optic Cable.....	31.86	
27 13 23 13-0004	EA	SC Connector For Multimode Fiber Optic Cable.....	30.87	
27 13 23 13-0005	EA	SC Connector For Singlemode Fiber Optic Cable.....	35.75	
27 13 23 13-0006	EA	LC Connector For Multimode Fiber Optic Cable.....	41.83	
27 13 23 13-0007	EA	LC Connector For Singlemode Fiber Optic Cable.....	42.96	
27 13 23 13-0008	EA	MT-RJ Connector For Multimode Fiber Optic Cable.....	60.57	

**27 13 23 13-0009 Fiber Optic Cable Fan Out Kits** (27 13 23 13)

**27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable** (27 13 23 13-0009)

27 13 23 13-0011	EA	6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	217.19	
27 13 23 13-0012	EA	12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	219.81	
27 13 23 13-0013	EA	6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	241.94	
27 13 23 13-0014	EA	12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	258.53	

**27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable** (27 13 23 13-0009)

Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.				
27 13 23 13-0016	EA	6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	249.46	
27 13 23 13-0017	EA	12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	267.05	
27 13 23 13-0018	EA	18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	391.78	
27 13 23 13-0019	EA	24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	511.10	

<b>27</b>	<b>27 Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 13</b>	<b>Communications Backbone Cabling</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 13 23 13-0020</b> <b>Fiber Optic Cable Splice Closures</b> <small>(27 13 23 13)</small> Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure .....	626.94	101.74
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure .....	830.41	203.47
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure .....	830.41	203.47
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure .....	1,010.12	101.74
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure .....	1,213.59	203.47
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure .....	1,213.59	203.47
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure .....	46.79	12.71
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
<b>27 13 23 13-0028</b> <b>Fiber Optic Cable Splicing</b> <small>(27 13 23 13)</small>		
27 13 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable .....	30.52	
27 13 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable .....	101.74	
<b>27 13 23 13-0031</b> <b>Fiber Optic Cable Testing</b> <small>(27 13 23 13)</small> Note: Price based on testing one wavelength.		
<b>27 13 23 13-0032</b> <b>Fiber Optic Cable Testing Using An OTDR</b> <small>(27 13 23 13-0031)</small> Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test .....	20.35	
For >12 To 48 Strands, Deduct	-1.53	
For >48 Strands, Deduct	-2.04	
27 13 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test .....	30.52	
For >12 To 48 Strands, Deduct	-2.29	
For >48 Strands, Deduct	-3.05	
27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation .....	50.86	
For >12 To 48 Strands, Deduct	-3.81	
For >48 Strands, Deduct	-5.09	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation .....	76.30	
For >12 To 48 Strands, Deduct	-5.72	
For >48 Strands, Deduct	-7.63	
<b>27 13 23 13-0037</b> <b>Fiber Optic Cable Testing Using A Power Meter</b> <small>(27 13 23 13-0031)</small>		
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test .....	20.35	
For >12 To 48 Strands, Deduct	-1.53	
For >48 Strands, Deduct	-2.04	
27 13 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test .....	30.52	
For >12 To 48 Strands, Deduct	-2.29	
For >48 Strands, Deduct	-3.05	
<b>27 13 23 13-0040</b> <b>Fiber Optic Cable Light Source/Continuity Testing</b> <small>(27 13 23 13-0031)</small>		
27 13 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test .....	20.35	
For >12 To 48 Strands, Deduct	-1.53	
For >48 Strands, Deduct	-2.04	
<b>27 13 23 13-0042</b> <b>Other Fiber Optic Cable Equipment</b> <small>(27 13 23 13)</small>		
27 13 23 13-0043 EA 8 Port Ethernet Switch .....	715.09	200.15
27 13 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHZ Band, 18 Degree Beamwidth .....	957.50	200.15
Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge .....	20,652.46	200.15
Note: 8 Volt DC input		
27 13 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U .....	219.85	25.06
27 13 23 13-0047 EA Hardened Ethernet Switch .....	2,225.87	100.20
27 13 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station .....	57,527.08	2,404.71
27 13 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station .....	71,577.32	3,206.30
27 13 23 13-0050 EA Fiber Break Out Box For 24 Fiber .....	1,029.42	200.39
27 13 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM .....	1,105.64	100.20
27 13 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers .....	935.90	100.20
27 13 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input .....	1,205.83	150.29
27 13 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic, Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems) .....	883.56	
27 13 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC .....	883.56	
<b>27 13 23 13-0056</b> <b>Other Fiber Optic Cable Splicing</b> <small>(27 13 23 13)</small>		
27 13 23 13-0057 EA Fiber Optic Finger Splice .....	33.56	19.12
27 13 23 13-0058 EA Fiber Optic Splice Box - Manholes .....	4,631.13	

## 27 15 Communications Horizontal Cabling (27 10)

### 27 15 13 Communications Copper Horizontal Cabling (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
	27 15 13 00-0001			<b>Solid Conductor Low Voltage Cable</b> (27 15 13)		
	27 15 13 00-0002			<b>Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> (27 15 13 00-0001)		
	27 15 13 00-0003			<b>#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> (27 15 13 00-0002)		
	27 15 13 00-0004	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,040.96	919.96
				<i>For #10 AWG, Add</i> .....	474.18	
				<i>For Work In Restricted Working Space, Add</i> .....	460.02	
	27 15 13 00-0005	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,524.58	952.48
				<i>For #10 AWG, Add</i> .....	626.68	
				<i>For Work In Restricted Working Space, Add</i> .....	476.38	
	27 15 13 00-0006	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,947.69	985.94
				<i>For #10 AWG, Add</i> .....	759.18	
				<i>For Work In Restricted Working Space, Add</i> .....	492.83	
	27 15 13 00-0007	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,395.89	1,019.39
				<i>For #10 AWG, Add</i> .....	899.71	
				<i>For Work In Restricted Working Space, Add</i> .....	509.85	
	27 15 13 00-0008	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,878.80	1,088.15
				<i>For #10 AWG, Add</i> .....	1,044.17	
				<i>For Work In Restricted Working Space, Add</i> .....	544.24	
	27 15 13 00-0009	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,318.41	1,155.98
				<i>For #10 AWG, Add</i> .....	1,174.55	
				<i>For Work In Restricted Working Space, Add</i> .....	578.15	
	27 15 13 00-0010	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,673.58	1,293.51
				<i>For #10 AWG, Add</i> .....	1,262.07	
				<i>For Work In Restricted Working Space, Add</i> .....	646.64	
	27 15 13 00-0011	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,198.91	1,705.17
				<i>For #10 AWG, Add</i> .....	1,676.26	
				<i>For Work In Restricted Working Space, Add</i> .....	852.42	
	27 15 13 00-0012	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,232.28	2,518.27
				<i>For #10 AWG, Add</i> .....	2,501.17	
				<i>For Work In Restricted Working Space, Add</i> .....	1,258.81	
	27 15 13 00-0013			<b>#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> (27 15 13 00-0002)		
	27 15 13 00-0014	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,825.88	804.73
				<i>For Work In Restricted Working Space, Add</i> .....	402.27	
	27 15 13 00-0015	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,284.15	833.54
				<i>For Work In Restricted Working Space, Add</i> .....	416.77	
	27 15 13 00-0016	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,684.37	862.35
				<i>For Work In Restricted Working Space, Add</i> .....	431.27	
	27 15 13 00-0017	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,107.65	892.08
				<i>For Work In Restricted Working Space, Add</i> .....	446.04	
	27 15 13 00-0018	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,559.89	952.48
				<i>For Work In Restricted Working Space, Add</i> .....	476.15	
	27 15 13 00-0019	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,970.42	1,011.95
				<i>For Work In Restricted Working Space, Add</i> .....	505.70	
	27 15 13 00-0020	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,292.36	1,131.82
				<i>For Work In Restricted Working Space, Add</i> .....	565.91	
	27 15 13 00-0021	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,693.73	1,491.44
				<i>For Work In Restricted Working Space, Add</i> .....	745.72	
	27 15 13 00-0022	MLF		24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,484.36	2,203.25
				<i>For Work In Restricted Working Space, Add</i> .....	1,101.71	
	27 15 13 00-0023			<b>#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> (27 15 13 00-0002)		
	27 15 13 00-0024	MLF		1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,624.86	718.30
				<i>For Work In Restricted Working Space, Add</i> .....	359.34	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0025 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,925.83 372.17	744.33
27 15 13 00-0026 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,381.24 384.99	770.34
27 15 13 00-0027 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,755.21 398.37	796.37
27 15 13 00-0028 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	3,154.29 425.13	850.26
27 15 13 00-0029 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	3,517.35 451.61	903.23
27 15 13 00-0030 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	3,659.93 478.38	957.13
27 15 13 00-0031 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	3,803.43 505.42	1,011.02
27 15 13 00-0032 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	4,263.42 537.48	1,075.14
27 15 13 00-0033 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	5,044.46 665.85	1,331.61
27 15 13 00-0034 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	7,516.28 983.66	1,967.22
<b>27 15 13 00-0035 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)</b>		
27 15 13 00-0036 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,355.32 316.13	632.82
27 15 13 00-0037 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,648.32 327.56	655.12
27 15 13 00-0038 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,905.23 338.99	677.42
27 15 13 00-0039 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,175.89 350.42	700.66
27 15 13 00-0040 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,473.66 374.12	748.05
27 15 13 00-0041 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,745.74 397.53	794.50
27 15 13 00-0042 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,978.17 444.65	889.29
27 15 13 00-0043 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	3,947.95 585.98	1,171.79
27 15 13 00-0044 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	5,877.33 865.59	1,731.19
<b>27 15 13 00-0045 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)</b>		
27 15 13 00-0046 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,189.79 287.42	575.21
27 15 13 00-0047 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,421.33 297.73	595.65
27 15 13 00-0048 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,622.59 308.05	616.55
27 15 13 00-0049 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	1,834.50 318.64	637.47
27 15 13 00-0050 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,075.84 339.96	680.21
27 15 13 00-0051 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ..... <i>For Work In Restricted Working Space, Add</i> .....	2,296.03 361.29	722.95



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0052 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,513.79 404.22	808.44
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0053 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,308.67 532.74	1,065.84
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0054 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,922.58 786.98	1,574.15
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0055 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,244.32 805.66	1,611.32
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0056 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,262.35 938.08	1,876.15
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0057 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,720.42 1,004.14	2,008.11
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0058 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,002.70 1,254.76	2,509.90
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0059 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,912.60 1,652.01	3,304.40
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0060 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)</b>		
27 15 13 00-0061 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	983.58 258.71	517.59
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0062 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,058.90 267.90	536.17
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0063 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,152.17 277.38	554.76
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0064 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,253.93 286.86	573.34
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0065 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,402.28 306.10	612.37
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0066 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,552.84 324.50	648.62
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0067 Triad (27 15 13 00-0002)</b>		
27 15 13 00-0068 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit.....	1,754.43	770.34
27 15 13 00-0069 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	2,342.36	1,065.84
27 15 13 00-0070 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	3,577.48	1,574.15
27 15 13 00-0071 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	4,379.33	1,876.15
27 15 13 00-0072 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	7,020.96	2,906.69
27 15 13 00-0073 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	8,041.32	3,304.40
<b>27 15 13 00-0074 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)</b>		
<b>27 15 13 00-0075 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)</b>		
27 15 13 00-0076 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,574.35 780.85 920.03	1,839.92
<i>For #10 AWG, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0077 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,112.51 944.27 952.76	1,904.96
<i>For #10 AWG, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0078 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,590.44 1,087.73 985.65	1,971.86
<i>For #10 AWG, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0079 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,095.38 1,239.61 1,019.69	2,038.77
<i>For #10 AWG, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0080 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,692.91 1,406.99 1,088.47	2,176.30
<i>For #10 AWG, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0081 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,245.56	2,311.97
For #10 AWG, Add	1,559.98	
For Work In Restricted Working Space, Add	1,156.29	
27 15 13 00-0082 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,829.02	2,587.03
For #10 AWG, Add	1,693.16	
For Work In Restricted Working Space, Add	1,293.27	
27 15 13 00-0083 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,040.31	3,410.35
For #10 AWG, Add	2,244.54	
For Work In Restricted Working Space, Add	1,704.84	
27 15 13 00-0084 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,428.30	5,036.52
For #10 AWG, Add	3,340.37	
For Work In Restricted Working Space, Add	2,517.61	
<b>27 15 13 00-0085 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)</b>		
27 15 13 00-0086 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,166.78	1,609.46
For Work In Restricted Working Space, Add	804.54	
27 15 13 00-0087 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,673.38	1,667.07
For Work In Restricted Working Space, Add	833.54	
27 15 13 00-0088 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,121.91	1,724.68
For Work In Restricted Working Space, Add	862.53	
27 15 13 00-0089 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,594.44	1,784.16
For Work In Restricted Working Space, Add	892.08	
27 15 13 00-0090 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,147.04	1,904.96
For Work In Restricted Working Space, Add	952.29	
27 15 13 00-0091 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,656.08	2,023.90
For Work In Restricted Working Space, Add	1,011.39	
27 15 13 00-0092 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,178.73	2,263.65
For Work In Restricted Working Space, Add	1,131.82	
27 15 13 00-0093 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,179.45	2,982.89
For Work In Restricted Working Space, Add	1,491.44	
27 15 13 00-0094 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,156.76	4,406.49
For Work In Restricted Working Space, Add	2,203.43	
<b>27 15 13 00-0095 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)</b>		
27 15 13 00-0096 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,822.66	1,436.62
For Work In Restricted Working Space, Add	718.68	
27 15 13 00-0097 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,166.37	1,488.66
For Work In Restricted Working Space, Add	744.33	
27 15 13 00-0098 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,664.54	1,540.70
For Work In Restricted Working Space, Add	769.98	
27 15 13 00-0099 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,083.11	1,592.73
For Work In Restricted Working Space, Add	796.74	
27 15 13 00-0100 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,571.40	1,700.52
For Work In Restricted Working Space, Add	850.26	
27 15 13 00-0101 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,022.74	1,806.45
For Work In Restricted Working Space, Add	903.23	
27 15 13 00-0102 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,254.52	1,914.25
For Work In Restricted Working Space, Add	956.75	
27 15 13 00-0103 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,488.17	2,022.05
For Work In Restricted Working Space, Add	1,010.84	
27 15 13 00-0104 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,055.01	2,150.29
For Work In Restricted Working Space, Add	1,074.95	
27 15 13 00-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,263.97	2,663.23
For Work In Restricted Working Space, Add	1,331.71	
27 15 13 00-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,795.14	3,934.43
For Work In Restricted Working Space, Add	1,967.31	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0074)</small>		
27 15 13 00-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,409.09	1,265.63
For Work In Restricted Working Space, Add	632.26	
27 15 13 00-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,740.19	1,310.25
For Work In Restricted Working Space, Add	655.12	
27 15 13 00-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,035.20	1,354.85
For Work In Restricted Working Space, Add	677.98	
27 15 13 00-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,343.95	1,401.31
For Work In Restricted Working Space, Add	700.84	
27 15 13 00-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,720.72	1,496.09
For Work In Restricted Working Space, Add	748.23	
27 15 13 00-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,070.84	1,589.02
For Work In Restricted Working Space, Add	795.06	
27 15 13 00-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,460.31	1,778.59
For Work In Restricted Working Space, Add	889.29	
27 15 13 00-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,901.25	2,343.56
For Work In Restricted Working Space, Add	1,171.97	
27 15 13 00-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,762.63	3,462.38
For Work In Restricted Working Space, Add	1,731.18	
<b>27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0074)</small>		
27 15 13 00-0118 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,147.84	1,150.41
For Work In Restricted Working Space, Add	574.83	
27 15 13 00-0119 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,413.77	1,191.30
For Work In Restricted Working Space, Add	595.46	
27 15 13 00-0120 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,649.41	1,233.11
For Work In Restricted Working Space, Add	616.09	
27 15 13 00-0121 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,896.62	1,274.93
For Work In Restricted Working Space, Add	637.28	
27 15 13 00-0122 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,209.07	1,360.42
For Work In Restricted Working Space, Add	679.93	
27 15 13 00-0123 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,500.35	1,445.91
For Work In Restricted Working Space, Add	722.59	
27 15 13 00-0124 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,861.20	1,616.89
For Work In Restricted Working Space, Add	808.45	
27 15 13 00-0125 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,084.46	2,131.70
For Work In Restricted Working Space, Add	1,065.48	
27 15 13 00-0126 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,545.83	3,148.30
For Work In Restricted Working Space, Add	1,573.96	
27 15 13 00-0127 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,929.82	3,222.63
For Work In Restricted Working Space, Add	1,611.31	
27 15 13 00-0128 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,389.28	3,752.30
For Work In Restricted Working Space, Add	1,876.16	
27 15 13 00-0129 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,067.57	4,016.21
For Work In Restricted Working Space, Add	2,008.29	
27 15 13 00-0130 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,185.23	5,019.80
For Work In Restricted Working Space, Add	2,509.52	
27 15 13 00-0131 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	16,419.28	6,608.82
For Work In Restricted Working Space, Add	3,304.01	
<b>27 15 13 00-0132 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed</b> <small>(27 15 13 00-0074)</small>		
27 15 13 00-0133 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,845.91	1,035.18
For Work In Restricted Working Space, Add	517.40	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0134 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,951.90 535.80	1,072.36
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0135 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,076.77 554.76	1,109.52
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0136 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,210.14 573.72	1,146.69
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0137 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,422.59 612.19	1,224.75
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0138 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,634.48 648.99	1,297.23
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0139 Triad, Installed Exposed</b> <small>(27 15 13 00-0074)</small>		
27 15 13 00-0140 MLF 1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	1,754.43	770.34
27 15 13 00-0141 MLF 4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	2,342.36	1,065.84
27 15 13 00-0142 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	3,577.48	1,574.15
27 15 13 00-0143 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	4,379.33	1,876.15
27 15 13 00-0144 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	7,020.96	2,906.69
27 15 13 00-0145 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed .....	8,041.32	3,304.40
<b>27 15 13 00-0146 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0001)</small>		
<b>27 15 13 00-0147 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0146)</small>		
27 15 13 00-0148 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,597.55 402.27	804.73
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0149 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,862.82 416.77	833.54
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0150 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,097.36 431.27	862.35
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0151 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,344.55 446.04	892.08
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0152 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,629.26 475.59	951.55
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0153 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,893.81 505.42	1,011.02
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0154 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,159.60 565.91	1,131.82
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0155 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,183.38 745.72	1,491.44
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0156 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,218.85 1,101.71	2,203.25
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0146)</small>		
27 15 13 00-0158 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,423.80 359.34	718.30
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0159 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,657.60 372.17	744.33
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0160 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,864.32 384.99	770.34
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0161 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,083.22 398.37	796.37
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0162 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,335.49 424.85	849.33
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0163 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,570.10 451.61	903.23
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0164 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,687.56 478.38	957.13
<i>For Work In Restricted Working Space, Add</i>		



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0165	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,878.40	1,011.02	
		<i>For Work In Restricted Working Space, Add</i>	505.42		
27 15 13 00-0166	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,184.12	1,075.14	
		<i>For Work In Restricted Working Space, Add</i>	537.45		
27 15 13 00-0167	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,714.46	1,331.61	
		<i>For Work In Restricted Working Space, Add</i>	665.85		
27 15 13 00-0168	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,521.73	1,967.22	
		<i>For Work In Restricted Working Space, Add</i>	983.79		
<b>27 15 13 00-0169</b>		<b>#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0146)</small>			
27 15 13 00-0170	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,242.39	631.88	
		<i>For Work In Restricted Working Space, Add</i>	316.13		
27 15 13 00-0171	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,430.08	655.12	
		<i>For Work In Restricted Working Space, Add</i>	327.56		
27 15 13 00-0172	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,546.23	678.35	
		<i>For Work In Restricted Working Space, Add</i>	338.99		
27 15 13 00-0173	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,701.40	700.66	
		<i>For Work In Restricted Working Space, Add</i>	350.42		
27 15 13 00-0174	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,884.45	748.05	
		<i>For Work In Restricted Working Space, Add</i>	374.12		
27 15 13 00-0175	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,066.57	795.44	
		<i>For Work In Restricted Working Space, Add</i>	397.53		
27 15 13 00-0176	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,496.80	889.29	
		<i>For Work In Restricted Working Space, Add</i>	444.65		
27 15 13 00-0177	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,240.31	1,171.79	
		<i>For Work In Restricted Working Space, Add</i>	585.98		
27 15 13 00-0178	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,291.03	1,731.19	
		<i>For Work In Restricted Working Space, Add</i>	865.59		
<b>27 15 13 00-0179</b>		<b>#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0146)</small>			
27 15 13 00-0180	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,091.20	575.21	
		<i>For Work In Restricted Working Space, Add</i>	287.42		
27 15 13 00-0181	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,219.41	595.65	
		<i>For Work In Restricted Working Space, Add</i>	297.73		
27 15 13 00-0182	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,445.25	678.35	
		<i>For Work In Restricted Working Space, Add</i>	338.99		
27 15 13 00-0183	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,597.23	713.10	
		<i>For Work In Restricted Working Space, Add</i>	356.55		
27 15 13 00-0184	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,745.88	748.05	
		<i>For Work In Restricted Working Space, Add</i>	374.12		
27 15 13 00-0185	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,902.84	795.44	
		<i>For Work In Restricted Working Space, Add</i>	397.53		
27 15 13 00-0186	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,092.88	885.20	
		<i>For Work In Restricted Working Space, Add</i>	442.69		
27 15 13 00-0187	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,586.99	1,065.84	
		<i>For Work In Restricted Working Space, Add</i>	532.74		
27 15 13 00-0188	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,840.05	1,574.15	
		<i>For Work In Restricted Working Space, Add</i>	786.98		
27 15 13 00-0189	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,039.62	1,611.32	
		<i>For Work In Restricted Working Space, Add</i>	805.66		
27 15 13 00-0190	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,786.17	1,876.15	
		<i>For Work In Restricted Working Space, Add</i>	938.08		
27 15 13 00-0191	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,132.26	2,008.11	
		<i>For Work In Restricted Working Space, Add</i>	1,004.14		



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0192 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,204.13	2,509.90
<i>For Work In Restricted Working Space, Add</i>	1,254.76	
27 15 13 00-0193 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,367.46	3,304.40
<i>For Work In Restricted Working Space, Add</i>	1,652.01	
<b>27 15 13 00-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)</b>		
27 15 13 00-0195 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	950.62	517.59
<i>For Work In Restricted Working Space, Add</i>	258.71	
27 15 13 00-0196 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,013.80	536.17
<i>For Work In Restricted Working Space, Add</i>	267.90	
27 15 13 00-0197 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,096.34	554.76
<i>For Work In Restricted Working Space, Add</i>	277.38	
27 15 13 00-0198 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,186.44	573.34
<i>For Work In Restricted Working Space, Add</i>	286.86	
27 15 13 00-0199 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,305.30	612.37
<i>For Work In Restricted Working Space, Add</i>	306.10	
27 15 13 00-0200 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,433.20	648.62
<i>For Work In Restricted Working Space, Add</i>	324.50	
<b>27 15 13 00-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)</b>		
<b>27 15 13 00-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)</b>		
27 15 13 00-0203 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,938.45	1,609.46
<i>For Work In Restricted Working Space, Add</i>	804.54	
27 15 13 00-0204 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,252.04	1,667.07
<i>For Work In Restricted Working Space, Add</i>	833.54	
27 15 13 00-0205 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,534.90	1,724.68
<i>For Work In Restricted Working Space, Add</i>	862.53	
27 15 13 00-0206 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,831.34	1,784.16
<i>For Work In Restricted Working Space, Add</i>	892.08	
27 15 13 00-0207 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,214.55	1,903.10
<i>For Work In Restricted Working Space, Add</i>	951.18	
27 15 13 00-0208 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,578.54	2,022.05
<i>For Work In Restricted Working Space, Add</i>	1,010.84	
27 15 13 00-0209 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,045.97	2,263.65
<i>For Work In Restricted Working Space, Add</i>	1,131.82	
27 15 13 00-0210 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,669.10	2,982.89
<i>For Work In Restricted Working Space, Add</i>	1,491.44	
27 15 13 00-0211 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,891.25	4,406.49
<i>For Work In Restricted Working Space, Add</i>	2,203.43	
<b>27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)</b>		
27 15 13 00-0213 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,621.60	1,436.62
<i>For Work In Restricted Working Space, Add</i>	718.68	
27 15 13 00-0214 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,898.14	1,488.66
<i>For Work In Restricted Working Space, Add</i>	744.33	
27 15 13 00-0215 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,147.62	1,540.70
<i>For Work In Restricted Working Space, Add</i>	769.98	
27 15 13 00-0216 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,411.12	1,592.73
<i>For Work In Restricted Working Space, Add</i>	796.74	
27 15 13 00-0217 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,751.66	1,698.67
<i>For Work In Restricted Working Space, Add</i>	849.71	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0218 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,075.49 903.23	1,806.45
27 15 13 00-0219 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,282.15 956.75	1,914.25
27 15 13 00-0220 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,563.14 1,010.84	2,022.05
27 15 13 00-0221 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,975.63 1,074.90	2,150.29
27 15 13 00-0222 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,933.97 1,331.71	2,663.23
27 15 13 00-0223 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	8,801.04 1,967.59	3,934.43
<b>27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small></b>		
27 15 13 00-0225 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,296.16 632.26	1,263.78
27 15 13 00-0226 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,521.95 655.12	1,310.25
27 15 13 00-0227 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,676.20 677.98	1,356.70
27 15 13 00-0228 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,869.46 700.84	1,401.31
27 15 13 00-0229 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,131.51 748.23	1,496.09
27 15 13 00-0230 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,391.67 795.06	1,590.87
27 15 13 00-0231 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,978.94 889.29	1,778.59
27 15 13 00-0232 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,193.61 1,171.97	2,343.56
27 15 13 00-0233 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	7,176.33 1,731.18	3,462.38
<b>27 15 13 00-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small></b>		
27 15 13 00-0235 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,049.25 574.83	1,150.41
27 15 13 00-0236 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,211.85 595.46	1,191.30
27 15 13 00-0237 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,575.22 677.98	1,356.70
27 15 13 00-0238 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,785.74 713.11	1,426.21
27 15 13 00-0239 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,992.94 748.23	1,496.09
27 15 13 00-0240 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,227.94 795.06	1,590.87
27 15 13 00-0241 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,568.53 885.39	1,770.40
27 15 13 00-0242 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,362.78 1,065.48	2,131.70
27 15 13 00-0243 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	6,463.30 1,573.96	3,148.30
27 15 13 00-0244 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	6,725.12 1,611.31	3,222.63

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0245 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,913.10	3,752.30
<i>For Work In Restricted Working Space, Add</i> .....	1,876.16	
27 15 13 00-0246 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,479.41	4,016.21
<i>For Work In Restricted Working Space, Add</i> .....	2,008.29	
27 15 13 00-0247 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,386.66	5,019.80
<i>For Work In Restricted Working Space, Add</i> .....	2,509.52	
27 15 13 00-0248 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,874.14	6,608.82
<i>For Work In Restricted Working Space, Add</i> .....	3,304.01	
<b>27 15 13 00-0249 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)</b>		
27 15 13 00-0250 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,812.95	1,035.18
<i>For Work In Restricted Working Space, Add</i> .....	517.40	
27 15 13 00-0251 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,906.80	1,072.36
<i>For Work In Restricted Working Space, Add</i> .....	535.80	
27 15 13 00-0252 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,020.94	1,109.52
<i>For Work In Restricted Working Space, Add</i> .....	554.76	
27 15 13 00-0253 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,142.65	1,146.69
<i>For Work In Restricted Working Space, Add</i> .....	573.72	
27 15 13 00-0254 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,325.61	1,224.75
<i>For Work In Restricted Working Space, Add</i> .....	612.19	
27 15 13 00-0255 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,514.84	1,297.23
<i>For Work In Restricted Working Space, Add</i> .....	648.99	
<b>27 15 13 00-0256 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0001)</b> Note: Excludes excavation.		
27 15 13 00-0257 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	1,671.42	
27 15 13 00-0258 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,123.01	
27 15 13 00-0259 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,517.64	
27 15 13 00-0260 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,935.92	
27 15 13 00-0261 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,376.10	
27 15 13 00-0262 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,775.78	
<b>27 15 13 00-0263 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0001)</b>		
27 15 13 00-0264 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	1,752.19	486.72
27 15 13 00-0265 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	2,252.67	521.46
27 15 13 00-0266 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	2,963.16	659.22
27 15 13 00-0267 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	3,606.06	762.47
27 15 13 00-0268 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	6,173.88	869.06
27 15 13 00-0269 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	7,420.61	1,110.28
<b>27 15 13 00-0270 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)</b>		
27 15 13 00-0271 MLF 1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,353.25	718.30
27 15 13 00-0272 MLF 2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,607.61	744.33
27 15 13 00-0273 MLF 3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,788.36	770.34
27 15 13 00-0274 MLF 4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,888.02	796.37
27 15 13 00-0275 MLF 5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,242.98	849.33
27 15 13 00-0276 MLF 6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,423.02	903.23
27 15 13 00-0277 MLF 8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,006.12	1,011.02
27 15 13 00-0278 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,751.15	1,331.61
27 15 13 00-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,683.53	1,967.22
27 15 13 00-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,171.75	631.88
27 15 13 00-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,380.90	655.12



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,554.81	678.35
27 15 13 00-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,643.56	700.66
27 15 13 00-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,947.15	748.05
27 15 13 00-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,176.62	795.44
27 15 13 00-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,456.63	889.29
27 15 13 00-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,179.30	1,171.79
27 15 13 00-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,048.10	1,731.19
27 15 13 00-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,038.81	575.21
27 15 13 00-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,173.03	595.65
27 15 13 00-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,303.25	616.09
27 15 13 00-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,387.35	637.47
27 15 13 00-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,507.69	680.21
27 15 13 00-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,641.74	722.95
27 15 13 00-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,838.53	808.44
27 15 13 00-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,524.60	1,065.84
27 15 13 00-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,826.10	1,574.15
27 15 13 00-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,024.01	1,611.32
27 15 13 00-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,740.21	1,876.15
27 15 13 00-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,111.81	2,008.11
27 15 13 00-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,180.97	2,509.90
27 15 13 00-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	8,334.69	3,304.40
27 15 13 00-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	16,028.05	6,086.57
27 15 13 00-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	23,958.29	8,054.73
27 15 13 00-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	31,935.54	10,150.18
27 15 13 00-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	44,890.38	13,922.93
27 15 13 00-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,009.72	575.21
27 15 13 00-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,107.96	595.65
27 15 13 00-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,203.65	616.09
27 15 13 00-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,270.17	637.47
27 15 13 00-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,372.93	680.21
27 15 13 00-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,484.12	722.95
27 15 13 00-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,661.57	808.44
27 15 13 00-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,254.79	1,065.84
27 15 13 00-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,392.70	1,574.15
27 15 13 00-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,541.73	1,611.32
27 15 13 00-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,176.15	1,876.15
27 15 13 00-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,475.95	2,008.11
27 15 13 00-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,460.88	2,509.90
27 15 13 00-0320 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	7,315.70	3,304.40
27 15 13 00-0321 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	13,871.61	6,086.57
27 15 13 00-0322 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	20,151.06	8,054.73
27 15 13 00-0323 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	26,508.75	10,150.18

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0324	MLF	1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	37,055.81	13,922.93
<b>27 15 13 00-0325</b>		<b>Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0001)</small>		
27 15 13 00-0326	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,398.25	718.30
27 15 13 00-0327	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,599.98	744.33
27 15 13 00-0328	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,725.67	770.34
27 15 13 00-0329	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,893.76	796.37
27 15 13 00-0330	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,094.49	849.33
27 15 13 00-0331	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,293.37	903.23
27 15 13 00-0332	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,763.02	1,011.02
27 15 13 00-0333	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,588.58	1,331.61
27 15 13 00-0334	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,352.96	1,967.22
27 15 13 00-0335	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,224.16	631.88
27 15 13 00-0336	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,397.39	655.12
27 15 13 00-0337	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,505.99	678.35
27 15 13 00-0338	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,649.86	700.66
27 15 13 00-0339	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,822.84	748.05
27 15 13 00-0340	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,994.91	795.44
27 15 13 00-0341	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,398.72	889.29
27 15 13 00-0342	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,116.60	1,171.79
27 15 13 00-0343	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,647.92	1,731.19
27 15 13 00-0344	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,078.33	575.21
27 15 13 00-0345	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,227.45	595.65
27 15 13 00-0346	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,332.34	616.09
27 15 13 00-0347	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,521.65	637.47
27 15 13 00-0348	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,689.43	680.21
27 15 13 00-0349	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,009.43	722.95
27 15 13 00-0350	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,245.99	808.44
27 15 13 00-0351	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,840.28	1,065.84
27 15 13 00-0352	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,282.19	1,574.15
27 15 13 00-0353	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,530.57	1,611.32
27 15 13 00-0354	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,387.92	1,876.15
27 15 13 00-0355	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,779.66	2,008.11
27 15 13 00-0356	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,937.28	2,509.90
27 15 13 00-0357	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,404.95	3,304.40
27 15 13 00-0358	MLF	250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	18,293.47	6,086.57
27 15 13 00-0359	MLF	500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	27,957.74	8,054.73
27 15 13 00-0360	MLF	750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	37,635.69	10,150.18
27 15 13 00-0361	MLF	1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	53,119.71	13,922.00
27 15 13 00-0362	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,034.99	575.21
27 15 13 00-0363	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,142.78	595.65
27 15 13 00-0364	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,222.26	616.09





<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,356.08	637.47
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,489.18	680.21
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,719.33	722.95
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,922.22	808.44
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,456.72	1,065.84
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,684.45	1,574.15
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,865.76	1,611.32
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,573.23	1,876.15
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,903.17	2,008.11
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,944.68	2,509.90
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,000.33	3,304.40
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	15,320.63	6,086.57
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,709.42	8,054.73
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	30,155.28	10,150.18
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	42,320.60	13,922.93
<b>27 15 13 00-0380 Copper Telecommunications Cable (27 15 13)</b>		
<b>27 15 13 00-0381 Indoor Telecommunications Cable (27 15 13 00-0380)</b>		
Note: Shielded twisted pair cables (STP) include a metallic foil wrap. Un-shielded twisted pair cables (UTP) exclude any shielding.		
<b>27 15 13 00-0382 Category 3, Indoor Telecommunications Cable (27 15 13 00-0381)</b>		
Note: Un-shielded twisted pair cables (UTP).		
<b>27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0382)</b>		
<b>27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)</b>		
<b>27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0384)</b>		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	773.95	427.29
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	800.33	427.29
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	809.65	427.29
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	963.86	488.33
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,158.02	488.33
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,466.31	488.33
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,252.67	610.41
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	4,009.52	976.66
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,315.69	1,098.74
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,941.60	1,220.83
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	10,114.29	1,709.16
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	13,191.88	2,112.03
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	20,692.76	2,929.98
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	34,168.14	5,859.95
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	46,870.20	8,789.94
<b>27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0384)</b>		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,486.10	854.58
<i>For Work In Restricted Working Space, Add 427.29</i>		
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,512.48	854.58
<i>For Work In Restricted Working Space, Add 427.29</i>		
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,521.80	854.58
<i>For Work In Restricted Working Space, Add 427.29</i>		
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,574.28	854.58
<i>For Work In Restricted Working Space, Add 427.29</i>		
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,768.44	854.58
<i>For Work In Restricted Working Space, Add 427.29</i>		
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,280.20	976.66
<i>For Work In Restricted Working Space, Add 488.33</i>		
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,270.03	1,220.83
<i>For Work In Restricted Working Space, Add 610.41</i>		
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,823.40	1,464.99
<i>For Work In Restricted Working Space, Add 732.50</i>		
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	6,231.31	1,648.11
<i>For Work In Restricted Working Space, Add 824.06</i>		



**27 Communications**  
**27 10 Structured Cabling**  
**27 15 Communications Horizontal Cabling**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,958.95 915.62	1,831.24
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,538.58 1,281.86	2,563.73
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,962.06 1,587.07	3,174.15
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	23,134.41 2,197.48	4,394.96
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	39,051.43 4,394.97	8,789.94
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	54,195.15 6,592.45	13,184.91
<b>27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)</b>		
<b>27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)</b>		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,234.19	488.33
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,271.91	610.41
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,909.48	976.66
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	10,250.97	1,220.83
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	15,035.81	1,709.16
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	19,530.69	2,112.03
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	28,861.25	2,929.98
<b>27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)</b>		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,048.08 488.33	976.66
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,289.27 610.41	1,220.83
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,723.36 732.50	1,464.99
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,268.32 915.62	1,831.24
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,460.10 1,281.86	2,563.73
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,300.87 1,587.07	3,174.15
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	31,302.90 2,197.48	4,394.96
<b>27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)</b>		
<b>27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)</b>		
<b>27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)</b>		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	795.29	427.29
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	821.55	427.29
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	841.20	427.29
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	999.29	488.33
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,210.94	488.33
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,784.64	488.33
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,900.76	610.41
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	5,367.44	976.66
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	9,069.55	1,220.83
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	13,534.21	1,709.16
<b>27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)</b>		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,507.44 427.29	854.58
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,533.70 427.29	854.58
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,553.35 427.29	854.58
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,609.71 427.29	854.58
27 15 13 00-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,821.36 427.29	854.58
27 15 13 00-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,598.53 488.33	976.66
27 15 13 00-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,918.12 610.41	1,220.83
27 15 13 00-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,181.32 732.50	1,464.99



<b>Communications</b>	<b>27</b>	
<b>Structured Cabling</b>	<b>27 10</b>	<b>27</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,086.90 915.62	1,831.24
27 15 13 00-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,958.50 1,281.86	2,563.73
<b>27 15 13 00-0458 Category 5E, Indoor Telecommunications Cable</b> <small>(27 15 13 00-0381)</small>		
<b>27 15 13 00-0459 Category 5E, Indoor Telecommunications Riser Cable</b> <small>(27 15 13 00-0458)</small>		
<b>27 15 13 00-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit</b> <small>(27 15 13 00-0459)</small>		
27 15 13 00-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	856.98	427.29
27 15 13 00-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit .....	890.91	427.29
27 15 13 00-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit .....	993.28	488.33
27 15 13 00-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,027.20	488.33
<b>27 15 13 00-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed</b> <small>(27 15 13 00-0459)</small>		
27 15 13 00-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed .....	1,569.13 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,603.06 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed .....	1,807.17 488.33	976.66
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,841.09 488.33	976.66
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0470 Category 5E, Indoor Telecommunications Plenum Cable</b> <small>(27 15 13 00-0458)</small>		
<b>27 15 13 00-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <small>(27 15 13 00-0470)</small>		
27 15 13 00-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	981.73	427.29
27 15 13 00-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,348.53	488.33
<b>27 15 13 00-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <small>(27 15 13 00-0470)</small>		
27 15 13 00-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed .....	1,693.88 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,162.42 488.33	976.66
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0477 Category 6, Indoor Telecommunications Cable</b> <small>(27 15 13 00-0381)</small>		
<b>27 15 13 00-0478 Category 6, Indoor Telecommunications Riser Cable</b> <small>(27 15 13 00-0477)</small>		
<b>27 15 13 00-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit</b> <small>(27 15 13 00-0478)</small>		
27 15 13 00-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit .....	1,222.33	427.29
27 15 13 00-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,279.38	427.29
<b>27 15 13 00-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed</b> <small>(27 15 13 00-0479)</small>		
27 15 13 00-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,934.48 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed .....	1,991.53 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0485 Category 6, Indoor Telecommunications Plenum Cable</b> <small>(27 15 13 00-0477)</small>		
<b>27 15 13 00-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <small>(27 15 13 00-0485)</small>		
27 15 13 00-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,750.12	427.29
<b>27 15 13 00-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <small>(27 15 13 00-0485)</small>		
27 15 13 00-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,462.27 427.29	854.58
<i>For Work In Restricted Working Space, Add</i>		
<b>27 15 13 00-0490 Category 6a, Indoor Telecommunications Cable</b> <small>(27 15 13 00-0381)</small>		
<b>27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable</b> <small>(27 15 13 00-0490)</small>		
<b>27 15 13 00-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit</b> <small>(27 15 13 00-0491)</small>		
27 15 13 00-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed In Conduit .....	1,313.48	427.29

<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 15</b>	<b>Communications Horizontal Cabling</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 13 00-0494</b> <b>Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed</b> <sup>(27 15 13 00-0491)</sup>		
27 15 13 00-0495      MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,025.63 427.29	854.58
<b>27 15 13 00-0496</b> <b>Category 6a, Indoor Telecommunications Plenum Cable</b> <sup>(27 15 13 00-0490)</sup>		
<b>27 15 13 00-0497</b> <b>Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <sup>(27 15 13 00-0496)</sup>		
27 15 13 00-0498      MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,019.90	427.29
<b>27 15 13 00-0499</b> <b>Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <sup>(27 15 13 00-0496)</sup>		
27 15 13 00-0500      MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,732.05 427.29	854.58
<b>27 15 13 00-0501</b> <b>Category 7, Indoor Telecommunications Cable</b> <sup>(27 15 13 00-0381)</sup>		
<b>27 15 13 00-0502</b> <b>Category 7, Indoor Telecommunications Cable, Installed In Conduit</b> <sup>(27 15 13 00-0501)</sup>		
27 15 13 00-0503      MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,132.04	488.33
27 15 13 00-0504      MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	6,472.64	488.33
<b>27 15 13 00-0505</b> <b>Category 7, Indoor Telecommunications Cable, Installed Exposed</b> <sup>(27 15 13 00-0501)</sup>		
27 15 13 00-0506      MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,945.93 488.33	976.66
27 15 13 00-0507      MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,286.53 488.33	976.66
<b>27 15 13 00-0508</b> <b>Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0380)</sup>		
Note: Cable buried in trench excludes excavation.		
<b>27 15 13 00-0509</b> <b>PE-89 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0508)</sup>		
Note: Includes foam-skin polyolefin insulated conductors.		
<b>27 15 13 00-0510</b> <b>24 AWG, PE-89 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0509)</sup>		
<b>27 15 13 00-0511</b> <b>24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <sup>(27 15 13 00-0510)</sup>		
27 15 13 00-0512      MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,359.87	488.33
27 15 13 00-0513      MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,590.81	854.58
27 15 13 00-0514      MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,190.03	549.37
27 15 13 00-0515      MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,239.49	610.41
27 15 13 00-0516      MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,588.43	854.58
27 15 13 00-0517      MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,736.09	976.66
27 15 13 00-0518      MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	9,627.05	1,098.74
27 15 13 00-0519      MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	14,141.29	1,587.07
27 15 13 00-0520      MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	18,727.30	2,075.40
27 15 13 00-0521      MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	25,429.39	2,807.90
27 15 13 00-0522      MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	40,613.28	5,615.79
27 15 13 00-0523      MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	55,751.63	8,301.61
<b>27 15 13 00-0524</b> <b>24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <sup>(27 15 13 00-0510)</sup>		
27 15 13 00-0525      MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,207.27	
27 15 13 00-0526      MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,438.21	
27 15 13 00-0527      MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,986.56	
27 15 13 00-0528      MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,036.02	
27 15 13 00-0529      MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,283.22	
27 15 13 00-0530      MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,227.41	
27 15 13 00-0531      MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	9,423.58	
27 15 13 00-0532      MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	13,530.88	
27 15 13 00-0533      MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	17,455.60	
27 15 13 00-0534      MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	23,191.22	
27 15 13 00-0535      MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	34,509.17	
27 15 13 00-0536      MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	46,798.90	
<b>27 15 13 00-0537</b> <b>22 AWG, PE-89 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0509)</sup>		
<b>27 15 13 00-0538</b> <b>22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <sup>(27 15 13 00-0537)</sup>		
27 15 13 00-0539      MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,506.68	488.33
27 15 13 00-0540      MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,865.10	488.33
27 15 13 00-0541      MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,751.48	549.37
27 15 13 00-0542      MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,238.82	610.41
27 15 13 00-0543      MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,150.11	854.58
27 15 13 00-0544      MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,859.14	976.66
27 15 13 00-0545      MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	13,722.71	1,098.74



<b>Communications</b>	<b>27</b>	<b>27</b>
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	19,982.53	1,587.07
27 15 13 00-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	26,601.81	2,075.40
27 15 13 00-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	39,180.75	2,807.90
27 15 13 00-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	57,980.12	5,615.79
27 15 13 00-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	81,734.01	8,301.61
<b>27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0537)</small>		
27 15 13 00-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,354.08	
27 15 13 00-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,712.50	
27 15 13 00-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,548.01	
27 15 13 00-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,035.35	
27 15 13 00-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,844.90	
27 15 13 00-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,553.93	
27 15 13 00-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	13,519.24	
27 15 13 00-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	19,372.12	
27 15 13 00-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	25,330.11	
27 15 13 00-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	36,942.58	
27 15 13 00-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	51,876.01	
27 15 13 00-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	72,781.28	
<b>27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0509)</small>		
<b>27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0564)</small>		
27 15 13 00-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	4,482.34	549.37
27 15 13 00-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	7,622.08	610.41
27 15 13 00-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	12,168.30	854.58
27 15 13 00-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	14,560.40	976.66
<b>27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0564)</small>		
27 15 13 00-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,278.87	
27 15 13 00-0572 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,418.61	
27 15 13 00-0573 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	11,863.09	
27 15 13 00-0574 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	14,255.19	
<b>27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0508)</small>		
Note: Includes solid polyolefin insulated conductors.		
<b>27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0575)</small>		
<b>27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0576)</small>		
27 15 13 00-0578 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	1,990.93	854.58
27 15 13 00-0579 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	2,273.46	854.58
27 15 13 00-0580 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	2,843.45	854.58
27 15 13 00-0581 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,869.88	854.58
27 15 13 00-0582 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	5,951.65	854.58
27 15 13 00-0583 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	10,585.36	1,098.74
27 15 13 00-0584 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	15,448.47	1,587.07
27 15 13 00-0585 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	20,320.10	2,075.40
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	27,754.99	2,807.90
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	43,620.86	5,615.79
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	63,552.07	8,301.61
<b>27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0576)</small>		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,685.72	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,968.25	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,538.24	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,564.67	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,646.44	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	10,381.89	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	14,838.06	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	19,048.40	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	25,516.82	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	37,516.75	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	54,599.34	
<b>27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0575)</small>		
<b>27 15 13 00-0602 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0601)</small>		
27 15 13 00-0603 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	2,154.27	854.58
27 15 13 00-0604 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	2,569.43	854.58
27 15 13 00-0605 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,452.92	854.58
27 15 13 00-0606 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	5,078.22	854.58
27 15 13 00-0607 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	8,470.01	854.58



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0608 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	15,431.89	1,098.74
27 15 13 00-0609 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	22,602.55	1,587.07
27 15 13 00-0610 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	28,972.81	2,075.40
27 15 13 00-0611 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	40,433.21	2,807.90
27 15 13 00-0612 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	64,149.83	5,615.79
<b>27 15 13 00-0613 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0601)</b>		
27 15 13 00-0614 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,849.06	
27 15 13 00-0615 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,264.22	
27 15 13 00-0616 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,147.71	
27 15 13 00-0617 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	4,773.31	
27 15 13 00-0618 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	8,164.80	
27 15 13 00-0619 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	15,228.42	
27 15 13 00-0620 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	21,992.14	
27 15 13 00-0621 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	27,701.11	
27 15 13 00-0622 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	38,195.04	
27 15 13 00-0623 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	58,045.72	
<b>27 15 13 00-0624 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)</b>		
<b>27 15 13 00-0625 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0624)</b>		
27 15 13 00-0626 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	5,410.05	854.58
27 15 13 00-0627 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	8,706.37	854.58
27 15 13 00-0628 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	15,541.79	854.58
<b>27 15 13 00-0629 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0624)</b>		
27 15 13 00-0630 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,104.84	
27 15 13 00-0631 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	8,401.16	
27 15 13 00-0632 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	15,236.58	
<b>27 15 13 00-0633 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0508)</b>		
Note: Includes support wire.		
<b>27 15 13 00-0634 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)</b>		
27 15 13 00-0635 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	5,712.57	1,668.65
27 15 13 00-0636 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	5,947.65	1,668.65
27 15 13 00-0637 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,531.30	1,668.65
27 15 13 00-0638 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,611.92	1,668.65
27 15 13 00-0639 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	9,699.11	1,668.65
27 15 13 00-0640 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	14,242.17	1,835.52
27 15 13 00-0641 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	18,811.03	2,002.39
<b>27 15 13 00-0642 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)</b>		
27 15 13 00-0643 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	5,993.82	1,668.65
27 15 13 00-0644 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,341.13	1,668.65
27 15 13 00-0645 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,177.67	1,668.65
27 15 13 00-0646 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	8,830.32	1,668.65
27 15 13 00-0647 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	12,617.39	1,668.65
27 15 13 00-0648 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	19,369.15	1,835.52
<b>27 15 13 00-0649 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)</b>		
27 15 13 00-0650 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,365.65	1,668.65
27 15 13 00-0651 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,151.08	1,668.65
27 15 13 00-0652 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	8,695.37	1,668.65
27 15 13 00-0653 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	11,783.96	1,668.65
27 15 13 00-0654 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	18,139.95	1,668.65
<b>27 15 13 00-0655 Sound System Cables (27 15 13)</b>		
Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
<b>27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0655)</b>		
<b>27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)</b>		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,509.32	650.47
For Work In Restricted Working Space, Add 390.29		
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,439.04	650.47
For Work In Restricted Working Space, Add 390.29		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,384.83 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,444.12 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,634.65 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,824.57 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,635.46 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,543.96 390.29	650.47
For Work In Restricted Working Space, Add		
<b>27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed</b> <small>(27 15 13 00-0666)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,538.36 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,457.51 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,411.75 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,488.11 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,649.44 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,631.64 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,519.81 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,709.90 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,899.48 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,434.69 390.29	650.47
For Work In Restricted Working Space, Add		
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,472.47 390.29	650.47
For Work In Restricted Working Space, Add		
<b>27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0655)</small>		
<b>27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0678)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	858.84	325.24
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	788.56	325.24
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	734.35	325.24
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	793.64	325.24
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	984.17	325.24
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,174.09	325.24
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	984.98	325.24
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	893.48	325.24
<b>27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0678)</small>		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	887.88	325.24

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	807.03	325.24
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	761.27	325.24
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	837.63	325.24
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	998.96	325.24
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	981.16	325.24
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	869.33	325.24
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,059.42	325.24
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,249.00	325.24
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit	821.99	325.24
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit	784.21	325.24

**27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)**

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

**27 15 23 00-0001 Indoor Fiber Optic Cable (27 15 23)**

Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.

**27 15 23 00-0002 Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)**

Note: Excludes conduit or innerduct.

**27 15 23 00-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)****27 15 23 00-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)****27 15 23 00-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)**

27 15 23 00-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	891.34	366.25
27 15 23 00-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	976.01	366.25
27 15 23 00-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,004.28	366.25
27 15 23 00-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,104.95	366.25
<i>For Aluminum Armored Cable, Add</i>	885.01	
<i>For Steel Armored Cable, Add</i>	3,179.72	
27 15 23 00-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,133.82	366.25
27 15 23 00-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,308.29	366.25
<i>For Aluminum Armored Cable, Add</i>	951.99	
<i>For Steel Armored Cable, Add</i>	3,492.91	
27 15 23 00-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,254.53	427.29
27 15 23 00-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,186.55	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	926.51	
<i>For Steel Armored Cable, Add</i>	6,056.82	
27 15 23 00-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,894.88	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	881.84	
<i>For Steel Armored Cable, Add</i>	6,335.66	
27 15 23 00-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,032.27	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	928.40	
<i>For Steel Armored Cable, Add</i>	6,623.84	
27 15 23 00-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,898.61	427.29
27 15 23 00-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,129.00	427.29
27 15 23 00-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,340.85	427.29
27 15 23 00-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,525.78	488.33
27 15 23 00-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,178.33	488.33

**27 15 23 00-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)**

27 15 23 00-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	915.72	366.25
27 15 23 00-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	962.41	366.25
27 15 23 00-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,171.41	366.25
27 15 23 00-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,391.41	366.25
<i>For Aluminum Armored Cable, Add</i>	948.67	
<i>For Steel Armored Cable, Add</i>	1,213.39	
27 15 23 00-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,600.41	366.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,029.41	366.25
<i>For Aluminum Armored Cable, Add</i>	1,026.77	
<i>For Steel Armored Cable, Add</i>	1,371.69	
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,241.15	427.29
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,792.15	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	712.88	
<i>For Steel Armored Cable, Add</i>	712.88	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,332.15	427.29
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	6,872.15	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,273.17	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	8,412.15	427.29
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	9,952.15	427.29
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	13,043.15	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	5,461.46	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	16,224.88	488.33
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	19,304.88	488.33
<b>27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0004)</small>		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	930.99	366.25
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	980.01	366.25
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,199.46	366.25
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,430.46	366.25
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,649.91	366.25
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,100.36	366.25
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,317.60	427.29
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,946.15	427.29
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,563.15	427.29
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	7,180.15	427.29
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	8,797.15	427.29
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	10,414.15	427.29
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	13,659.70	427.29
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	16,995.43	488.33
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	20,229.43	488.33
<b>27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0003)</small>		
<b>27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0053)</small>		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,676.05	366.25
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,991.81	366.25
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,686.46	366.25
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,017.98	366.25
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,276.47	366.25
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,566.79	427.29
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	7,021.87	427.29
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	9,908.33	427.29
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	12,158.05	427.29
<b>27 15 23 00-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0053)</small>		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,802.03	366.25
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,177.75	366.25

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,797.21	366.25
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,717.91	366.25
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,105.64	366.25
27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,470.75	427.29
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,860.05	427.29
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,793.95	427.29
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,844.15	427.29
<b>27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)</b>		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,861.61	366.25
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,256.11	366.25
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,906.55	366.25
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,873.29	366.25
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,280.40	366.25
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,708.68	427.29
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,167.45	427.29
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,148.04	427.29
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,400.75	427.29
<b>27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)</b>		
<b>27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)</b>		
<b>27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)</b>		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	906.63	366.25
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	911.10	366.25
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,145.77	366.25
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,173.23	366.25
<i>For Aluminum Armored Cable, Add</i>	885.43	
<i>For Steel Armored Cable, Add</i>	4,178.22	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,311.46	366.25
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,337.32	366.25
<i>For Aluminum Armored Cable, Add</i>	923.04	
<i>For Steel Armored Cable, Add</i>	4,464.19	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,081.91	427.29
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,970.57	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	13.96	
<i>For Steel Armored Cable, Add</i>	4,268.09	
27 15 23 00-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,322.75	427.29
27 15 23 00-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,488.44	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	-142.88	
<i>For Steel Armored Cable, Add</i>	5,052.50	
27 15 23 00-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,836.83	427.29
27 15 23 00-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,276.49	427.29
27 15 23 00-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,268.39	427.29
<b>27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)</b>		
27 15 23 00-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	914.08	366.25
27 15 23 00-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,033.14	366.25
27 15 23 00-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,292.11	366.25
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,556.27	366.25
<i>For Aluminum Armored Cable, Add</i>	786.32	
<i>For Steel Armored Cable, Add</i>	1,109.59	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,809.39	366.25





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,029.31	366.25
<i>For Aluminum Armored Cable, Add</i>	<i>1,004.84</i>	
<i>For Steel Armored Cable, Add</i>	<i>1,371.79</i>	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,563.91	427.29
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	4,442.31	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>1,491.90</i>	
<i>For Steel Armored Cable, Add</i>	<i>1,491.90</i>	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	6,307.39	427.29
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	8,172.47	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>1,430.40</i>	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	10,037.55	427.29
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	11,902.63	427.29
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	15,646.11	427.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>2,858.49</i>	
<b>27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	929.27	366.25
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,054.28	366.25
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,326.20	366.25
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,603.57	366.25
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	1,869.34	366.25
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,100.25	366.25
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,656.50	427.29
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	4,628.82	427.29
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	6,587.15	427.29
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	8,545.49	427.29
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	10,503.82	427.29
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	12,462.15	427.29
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	16,392.81	427.29
<b>27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0084)</small>		
<b>27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,641.71	366.25
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,025.89	366.25
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,949.45	366.25
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	4,854.58	366.25
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	6,299.14	366.25
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	8,984.76	427.29
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	12,962.70	427.29
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	15,683.92	427.29
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	19,572.90	427.29
<b>27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	2,999.96	366.25
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	3,697.78	366.25
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	4,943.36	366.25
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,578.18	366.25
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit .....	5,533.06	366.25



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0145	MLF	18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,945.15	427.29
27 15 23 00-0146	MLF	24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,780.35	427.29
27 15 23 00-0147	MLF	36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,526.00	427.29
27 15 23 00-0148	MLF	48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	18,297.19	427.29
<b>27 15 23 00-0149</b>		<b>62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0128)</small>		
27 15 23 00-0150	MLF	2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,119.44	366.25
27 15 23 00-0151	MLF	4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,852.15	366.25
27 15 23 00-0152	MLF	6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,160.01	366.25
27 15 23 00-0153	MLF	8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,826.57	366.25
27 15 23 00-0154	MLF	12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,779.19	366.25
27 15 23 00-0155	MLF	18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,356.80	427.29
27 15 23 00-0156	MLF	24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,183.76	427.29
27 15 23 00-0157	MLF	36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,066.70	427.29
27 15 23 00-0158	MLF	48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	19,176.44	427.29
<b>27 15 23 00-0159</b>		<b>Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0001)</small> Note: For non-conduit installations such as cable trays, surface runways, etc.		
<b>27 15 23 00-0160</b>		<b>Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0159)</small>		
<b>27 15 23 00-0161</b>		<b>Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0160)</small>		
<b>27 15 23 00-0162</b>		<b>Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0161)</small>		
27 15 23 00-0163	MLF	1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,094.81	488.33
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0164	MLF	2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,179.48	488.33
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0165	MLF	4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,207.75	488.33
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0166	MLF	6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,308.42	488.33
		<i>For Aluminum Armored Cable, Add</i>	885.01	
		<i>For Steel Armored Cable, Add</i>	3,179.72	
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0167	MLF	8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,337.29	488.33
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0168	MLF	12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,511.76	488.33
		<i>For Aluminum Armored Cable, Add</i>	951.99	
		<i>For Steel Armored Cable, Add</i>	3,492.91	
		<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0169	MLF	18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,458.00	549.37
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0170	MLF	24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,390.02	549.37
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	926.51	
		<i>For Steel Armored Cable, Add</i>	6,056.82	
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0171	MLF	36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,098.35	549.37
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	881.84	
		<i>For Steel Armored Cable, Add</i>	6,335.66	
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0172	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,235.74	549.37
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	928.40	
		<i>For Steel Armored Cable, Add</i>	6,623.84	
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0173	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,102.08	549.37
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0174	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,332.47	549.37
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0175	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,544.32	549.37
		<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0176	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,729.25	610.41
		<i>For Work In Restricted Working Space, Add</i>	305.21	
27 15 23 00-0177	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,381.80	610.41
		<i>For Work In Restricted Working Space, Add</i>	305.21	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0161)</small>		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,119.19 <i>For Work In Restricted Working Space, Add</i> 244.16	1,119.19 244.16	488.33
27 15 23 00-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,165.88 <i>For Work In Restricted Working Space, Add</i> 244.16	1,165.88 244.16	488.33
27 15 23 00-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,374.88 <i>For Work In Restricted Working Space, Add</i> 244.16	1,374.88 244.16	488.33
27 15 23 00-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,594.88 <i>For Aluminum Armored Cable, Add</i> 948.67 <i>For Steel Armored Cable, Add</i> 1,213.39 <i>For Work In Restricted Working Space, Add</i> 244.16	1,594.88 948.67 1,213.39 244.16	488.33
27 15 23 00-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,803.88 <i>For Work In Restricted Working Space, Add</i> 244.16	1,803.88 244.16	488.33
27 15 23 00-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,232.88 <i>For Aluminum Armored Cable, Add</i> 1,026.77 <i>For Steel Armored Cable, Add</i> 1,371.69 <i>For Work In Restricted Working Space, Add</i> 244.16	2,232.88 1,026.77 1,371.69 244.16	488.33
27 15 23 00-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,444.62 <i>For Work In Restricted Working Space, Add</i> 274.69	2,444.62 274.69	549.37
27 15 23 00-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 3,995.62 <i>For Aluminum Armored Cable With Sub-Units, Add</i> 712.88 <i>For Steel Armored Cable, Add</i> 712.88 <i>For Work In Restricted Working Space, Add</i> 274.69	3,995.62 712.88 712.88 274.69	549.37
27 15 23 00-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 5,535.62 <i>For Work In Restricted Working Space, Add</i> 274.69	5,535.62 274.69	549.37
27 15 23 00-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 7,075.62 <i>For Aluminum Armored Cable With Sub-Units, Add</i> 1,273.17 <i>For Work In Restricted Working Space, Add</i> 274.69	7,075.62 1,273.17 274.69	549.37
27 15 23 00-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 8,615.62 <i>For Work In Restricted Working Space, Add</i> 274.69	8,615.62 274.69	549.37
27 15 23 00-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 10,155.62 <i>For Work In Restricted Working Space, Add</i> 274.69	10,155.62 274.69	549.37
27 15 23 00-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 13,246.62 <i>For Aluminum Armored Cable With Sub-Units, Add</i> 5,461.46 <i>For Work In Restricted Working Space, Add</i> 274.69	13,246.62 5,461.46 274.69	549.37
27 15 23 00-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 16,428.35 <i>For Work In Restricted Working Space, Add</i> 305.21	16,428.35 305.21	610.41
27 15 23 00-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 19,508.35 <i>For Work In Restricted Working Space, Add</i> 305.21	19,508.35 305.21	610.41
<b>27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0161)</small>		
27 15 23 00-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,134.46 <i>For Work In Restricted Working Space, Add</i> 244.16	1,134.46 244.16	488.33
27 15 23 00-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,183.48 <i>For Work In Restricted Working Space, Add</i> 244.16	1,183.48 244.16	488.33
27 15 23 00-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,402.93 <i>For Work In Restricted Working Space, Add</i> 244.16	1,402.93 244.16	488.33
27 15 23 00-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,633.93 <i>For Work In Restricted Working Space, Add</i> 244.16	1,633.93 244.16	488.33
27 15 23 00-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,853.38 <i>For Work In Restricted Working Space, Add</i> 244.16	1,853.38 244.16	488.33
27 15 23 00-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,303.83 <i>For Work In Restricted Working Space, Add</i> 244.16	2,303.83 244.16	488.33
27 15 23 00-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,521.07 <i>For Work In Restricted Working Space, Add</i> 274.69	2,521.07 274.69	549.37
27 15 23 00-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 4,149.62 <i>For Work In Restricted Working Space, Add</i> 274.69	4,149.62 274.69	549.37
27 15 23 00-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 5,766.62 <i>For Work In Restricted Working Space, Add</i> 274.69	5,766.62 274.69	549.37
27 15 23 00-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 7,383.62 <i>For Work In Restricted Working Space, Add</i> 274.69	7,383.62 274.69	549.37
27 15 23 00-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 9,000.62 <i>For Work In Restricted Working Space, Add</i> 274.69	9,000.62 274.69	549.37
27 15 23 00-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 10,617.62 <i>For Work In Restricted Working Space, Add</i> 274.69	10,617.62 274.69	549.37

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	13,863.17 274.69	549.37
27 15 23 00-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	17,198.90 305.21	610.41
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	20,432.90 305.21	610.41
<b>27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)</b>		
<b>27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)</b>		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	1,879.52 244.16	488.33
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,195.28 244.16	488.33
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,889.93 244.16	488.33
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	3,221.45 244.16	488.33
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	5,479.94 244.16	488.33
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	5,770.26 274.69	549.37
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	7,225.34 274.69	549.37
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	10,111.80 274.69	549.37
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	12,361.52 274.69	549.37
<b>27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)</b>		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,005.50 244.16	488.33
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,381.22 244.16	488.33
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	3,000.68 244.16	488.33
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	3,921.38 244.16	488.33
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	4,309.11 244.16	488.33
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	5,674.22 274.69	549.37
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	7,063.52 274.69	549.37
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	7,997.42 274.69	549.37
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	12,047.62 274.69	549.37
<b>27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)</b>		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,065.08 244.16	488.33
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	2,459.58 244.16	488.33
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	3,110.02 244.16	488.33
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	4,076.76 244.16	488.33
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	4,483.87 244.16	488.33
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	5,912.15 274.69	549.37
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	7,370.92 274.69	549.37
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	8,351.51 274.69	549.37
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i> .....	12,604.22 274.69	549.37



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <sup>(27 15 23 00-0159)</sup>		
27 15 23 00-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <sup>(27 15 23 00-0241)</sup>		
27 15 23 00-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <sup>(27 15 23 00-0242)</sup>		
27 15 23 00-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,110.10	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,114.57	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,349.24	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,376.70	488.33
For Aluminum Armored Cable, Add	885.43	
For Steel Armored Cable, Add	4,178.22	
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,514.93	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,540.79	488.33
For Aluminum Armored Cable, Add	923.04	
For Steel Armored Cable, Add	4,464.19	
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,285.38	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,174.04	549.37
For Aluminum Armored Cable With Sub-Units, Add	13.96	
For Steel Armored Cable, Add	4,268.09	
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,526.22	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,691.91	549.37
For Aluminum Armored Cable With Sub-Units, Add	-142.88	
For Steel Armored Cable, Add	5,052.50	
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,040.30	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,479.96	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,471.86	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <sup>(27 15 23 00-0242)</sup>		
27 15 23 00-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,117.55	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,236.61	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,495.58	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,759.74	488.33
For Aluminum Armored Cable, Add	786.32	
For Steel Armored Cable, Add	1,109.59	
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,012.86	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,232.78	488.33
For Aluminum Armored Cable, Add	1,004.84	
For Steel Armored Cable, Add	1,371.79	
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,767.38	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,645.78	549.37
For Aluminum Armored Cable With Sub-Units, Add	1,491.90	
For Steel Armored Cable, Add	1,491.90	
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0266 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,510.86	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0267 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,375.94	549.37
For Aluminum Armored Cable With Sub-Units, Add	1,430.40	
For Work In Restricted Working Space, Add	274.69	



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0268 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	10,241.02	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	12,106.10	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	15,849.58	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	2,858.49	
<i>For Work In Restricted Working Space, Add</i>	274.69	
<b>27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small></b>		
27 15 23 00-0272 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	1,132.74	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0273 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	1,257.75	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0274 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	1,529.67	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0275 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	1,807.04	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0276 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	2,072.81	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0277 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	2,303.72	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0278 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	2,859.97	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0279 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	4,832.29	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0280 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	6,790.62	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0281 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	8,748.96	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0282 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	10,707.29	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0283 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	12,665.62	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0284 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	16,596.28	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
<b>27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small></b>		
<b>27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small></b>		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	2,845.18	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	3,229.36	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	4,152.92	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	5,058.05	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	6,502.61	488.33
<i>For Work In Restricted Working Space, Add</i>	244.16	
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	9,188.23	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	13,166.17	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	15,887.39	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....	19,776.37	549.37
<i>For Work In Restricted Working Space, Add</i>	274.69	





<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 23 00-0296</b> <b>50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0285)</small>		
27 15 23 00-0297    MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,203.43	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0298    MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,901.25	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0299    MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,146.83	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0300    MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,781.65	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0301    MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,736.53	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0302    MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,148.62	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0303    MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,983.82	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0304    MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,729.47	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0305    MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,500.66	549.37
For Work In Restricted Working Space, Add	274.69	
<b>27 15 23 00-0306</b> <b>62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307    MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,322.91	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0308    MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,055.62	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0309    MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,363.48	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0310    MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,030.04	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0311    MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,982.66	488.33
For Work In Restricted Working Space, Add	244.16	
27 15 23 00-0312    MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,560.27	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0313    MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,387.23	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0314    MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,270.17	549.37
For Work In Restricted Working Space, Add	274.69	
27 15 23 00-0315    MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,379.91	549.37
For Work In Restricted Working Space, Add	274.69	
<b>27 15 23 00-0316</b> <b>Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
<b>27 15 23 00-0317</b> <b>Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318    MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	1,298.49	366.25
27 15 23 00-0319    MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	2,229.08	366.25
27 15 23 00-0320    MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	5,196.25	427.29
27 15 23 00-0321    MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	8,220.47	427.29
<b>27 15 23 00-0322</b> <b>Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323    MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	1,555.93	366.25
27 15 23 00-0324    MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	2,265.31	366.25
27 15 23 00-0325    MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	6,176.93	427.29
27 15 23 00-0326    MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit .....	10,691.67	427.29

<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 15</b>	<b>Communications Horizontal Cabling</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

27 15 23 00-0327	<b>Hybrid, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328	<b>Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329	MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,501.96 244.16	488.33
27 15 23 00-0330	MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,432.55 244.16	488.33
27 15 23 00-0331	MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,399.72 274.69	549.37
27 15 23 00-0332	MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	8,423.94 274.69	549.37
27 15 23 00-0333	<b>Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334	MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,759.40 244.16	488.33
27 15 23 00-0335	MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,468.78 244.16	488.33
27 15 23 00-0336	MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	6,380.40 274.69	549.37
27 15 23 00-0337	MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	10,895.14 274.69	549.37
27 15 23 00-0338	<b>Outdoor Fiber Optic Cable</b> <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339	<b>Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
27 15 23 00-0340	<b>Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0339)</small>		
27 15 23 00-0341	<b>Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342	MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,725.03 246.29	732.50
27 15 23 00-0343	MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,755.69 248.32	732.50
27 15 23 00-0344	MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,786.40 250.30	732.50
27 15 23 00-0345	MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,817.08 252.70	732.50
27 15 23 00-0346	MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,878.05 228.66	732.50
27 15 23 00-0347	MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,002.76 254.76	732.50
27 15 23 00-0348	MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,066.87 200.55	732.50
27 15 23 00-0349	MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,086.65 234.42	732.50
27 15 23 00-0350	MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,453.53 257.90	732.50
27 15 23 00-0351	MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,655.81 257.87	732.50
27 15 23 00-0352	MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,918.24 304.79	732.50
27 15 23 00-0353	MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,380.25 292.62	732.50
27 15 23 00-0354	MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,885.06 355.33	732.50
27 15 23 00-0355	MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,413.39 237.86	732.50
27 15 23 00-0356	<b>50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357	MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,034.83 44.00	732.50
27 15 23 00-0358	MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,081.03 74.80	732.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,177.83 121.00	732.50
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,309.83 22.00	732.50
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,364.83 44.00	732.50
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,551.83 66.00	732.50
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,947.83 44.00	732.50
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,530.83 132.00	732.50
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,179.83 44.00	732.50
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,630.83 132.00	732.50
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,213.83 517.00	732.50
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,566.83 176.00	732.50
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,908.83 209.00	732.50
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,250.83 253.00	732.50
<b>27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,512.28 105.32	732.50
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,613.54 112.95	732.50
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,714.65 120.38	732.50
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,839.54 137.05	732.50
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,018.42 142.91	732.50
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,334.66 152.31	732.50
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,634.22 175.16	732.50
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,207.55 194.64	732.50
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,878.14 223.80	732.50
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,497.52 240.82	732.50
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,151.24 272.57	732.50
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,473.42 306.47	732.50
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,816.82 347.81	732.50
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,180.95 319.48	732.50
<b>27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0339)</small>		
<b>27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0386)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,900.62 194.63	732.50
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,960.41 279.35	732.50
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,978.36 267.71	732.50
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,049.98 222.86	732.50
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,072.33 266.36	732.50
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,172.71 252.62	732.50
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,262.71 255.62	732.50
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,406.28 324.15	732.50
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,608.55 328.38	732.50
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,810.04 340.20	732.50

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,083.21 292.63	732.50
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,525.07 381.64	732.50
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,103.14 375.79	732.50
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,576.19 300.18	732.50
<b>27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0386)</small>		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,102.19 275.42	732.50
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,311.51 154.24	732.50
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,586.94 33.05	732.50
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,719.14 55.08	732.50
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,851.35 55.08	732.50
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,159.82 66.10	732.50
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,435.25 253.39	732.50
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,030.17 495.76	732.50
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,625.08 826.28	732.50
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,120.85 908.90	732.50
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,770.85 1,156.78	732.50
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,125.94 1,707.64	732.50
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,809.00 1,288.99	732.50
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,560.70 3,139.84	732.50
<b>27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0386)</small>		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,580.66 132.20	732.50
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,679.81 142.91	732.50
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,778.80 153.61	732.50
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,877.95 164.29	732.50
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,134.80 176.71	732.50
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,386.66 207.08	732.50
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,695.28 224.92	732.50
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,292.63 277.90	732.50
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,901.16 318.40	732.50
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,511.77 354.56	732.50
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,153.83 395.39	732.50
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,456.73 466.21	732.50
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,138.40 481.95	732.50
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,123.93 497.53	732.50
<b>27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0338)</small> Note: Excludes trenching.		
<b>27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0432)</small>		
<b>27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0433)</small>		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,623.29 246.29	





<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0436	MLF		4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,653.95 248.32	
27 15 23 00-0437	MLF		6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,684.66 250.30	
27 15 23 00-0438	MLF		8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,715.34 252.70	
27 15 23 00-0439	MLF		12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,776.31 228.66	
27 15 23 00-0440	MLF		18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,901.02 254.76	
27 15 23 00-0441	MLF		24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,965.13 200.55	
27 15 23 00-0442	MLF		36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,984.91 234.42	
27 15 23 00-0443	MLF		48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,351.79 257.90	
27 15 23 00-0444	MLF		60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,811.94 257.87	
27 15 23 00-0445	MLF		72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,121.29 304.79	
27 15 23 00-0446	MLF		96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,278.51 292.62	
27 15 23 00-0447	MLF		120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,783.32 355.33	
27 15 23 00-0448	MLF		144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,311.65 237.86	
<b>27 15 23 00-0449</b>			<b>50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0433)</small>		
27 15 23 00-0450	MLF		2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,933.09 44.00	
27 15 23 00-0451	MLF		4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,979.29 74.80	
27 15 23 00-0452	MLF		6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,076.09 121.00	
27 15 23 00-0453	MLF		8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,208.09 22.00	
27 15 23 00-0454	MLF		12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,263.09 44.00	
27 15 23 00-0455	MLF		18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,450.09 66.00	
27 15 23 00-0456	MLF		24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,846.09 44.00	
27 15 23 00-0457	MLF		36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,429.09 132.00	
27 15 23 00-0458	MLF		48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,078.09 44.00	
27 15 23 00-0459	MLF		60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,529.09 132.00	
27 15 23 00-0460	MLF		72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,112.09 517.00	
27 15 23 00-0461	MLF		96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,465.09 176.00	
27 15 23 00-0462	MLF		120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,807.09 209.00	
27 15 23 00-0463	MLF		144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,149.09 253.00	
<b>27 15 23 00-0464</b>			<b>62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0433)</small>		
27 15 23 00-0465	MLF		2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,410.54 105.32	
27 15 23 00-0466	MLF		4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,511.80 112.95	
27 15 23 00-0467	MLF		6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,612.91 120.38	
27 15 23 00-0468	MLF		8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,737.80 137.05	
27 15 23 00-0469	MLF		12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,916.68 142.91	
27 15 23 00-0470	MLF		18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,232.92 152.31	
27 15 23 00-0471	MLF		24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,532.48 175.16	
27 15 23 00-0472	MLF		36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,105.81 194.64	
27 15 23 00-0473	MLF		48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,776.40 223.80	
27 15 23 00-0474	MLF		60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,395.78 240.82	



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,049.50 272.57	
27 15 23 00-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,371.68 306.47	
27 15 23 00-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,715.08 347.81	
27 15 23 00-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,079.21 319.48	
<b>27 15 23 00-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0432)</sup>		
<b>27 15 23 00-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0481 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,798.88 194.63	
27 15 23 00-0482 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,858.67 279.35	
27 15 23 00-0483 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,876.62 267.71	
27 15 23 00-0484 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,948.24 222.86	
27 15 23 00-0485 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,970.59 266.36	
27 15 23 00-0486 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,070.97 252.62	
27 15 23 00-0487 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,160.97 255.62	
27 15 23 00-0488 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,304.54 324.15	
27 15 23 00-0489 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,506.81 328.38	
27 15 23 00-0490 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,708.30 340.20	
27 15 23 00-0491 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,981.47 292.63	
27 15 23 00-0492 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,423.33 381.64	
27 15 23 00-0493 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,001.40 375.79	
27 15 23 00-0494 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,474.45 300.18	
<b>27 15 23 00-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,000.45 275.42	
27 15 23 00-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,209.77 154.24	
27 15 23 00-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,485.20 33.05	
27 15 23 00-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,617.40 55.08	
27 15 23 00-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,749.61 55.08	
27 15 23 00-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,058.08 66.10	
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,333.51 253.39	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,928.43 495.76	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,523.34 826.28	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,019.11 908.90	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,669.11 1,156.78	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,024.20 1,707.64	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,707.26 1,288.99	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,458.96 3,139.84	
<b>27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,478.92 132.20	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,578.07 142.91	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,677.06 153.61	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,776.21 164.29	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,033.06 176.71	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,284.92 207.08	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,593.54 224.92	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,190.89 277.90	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,799.42 318.40	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,410.03 354.56	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,052.09 395.39	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,354.99 466.21	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,743.10 481.95	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,022.19 497.53	
<b>27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0338)</small>		
<b>27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0525)</small>		
<b>27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0526)</small>		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,757.07 164.73	2,629.26
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,787.53 168.99	2,629.26
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,818.40 173.14	2,629.26
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,848.87 169.83	2,629.26
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,909.83 197.99	2,629.26
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,030.20 205.83	2,629.26
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,122.01 227.50	2,629.26
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,340.28 218.14	2,629.26
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,531.16 253.42	2,629.26
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,688.95 243.01	2,629.26
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,885.79 277.84	2,629.26
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,402.41 282.19	2,629.26
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,956.69 336.72	2,629.26
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,089.57 361.57	2,629.26
<b>27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
<b>27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0542)</small>		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	3,349.03	610.41
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	4,240.98	610.41
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	6,227.92	610.41
<b>27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0542)</small>		
27 15 23 00-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	4,486.67	610.41
27 15 23 00-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	4,993.55	610.41
27 15 23 00-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	7,210.78	610.41

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 23 00-0551 Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes trenching.		
<b>27 15 23 00-0552 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0551)</small>		
27 15 23 00-0553 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,247.29	559.54
27 15 23 00-0554 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,139.24	559.54
27 15 23 00-0555 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,126.18	559.54
<b>27 15 23 00-0556 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0551)</small>		
27 15 23 00-0557 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,384.93	559.54
27 15 23 00-0558 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,891.81	559.54
27 15 23 00-0559 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	7,109.04	559.54
<b>27 15 23 00-0560 Network Communications Cabling And Related Products</b> <small>(27 15 23)</small>		
27 15 23 00-0561 EA AC Surge Suppression Assembly.....	297.58	12.71
Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.		
27 15 23 00-0562 EA Single Mode Fiber Optic To Ethernet Media Converter.....	498.60	15.26
Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.		
27 15 23 00-0563 EA 6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends.....	26.83	1.63
Note: Includes testing.		
27 15 23 00-0564 EA KVM (Keyboard, Video, Mouse) Cable.....	60.64	2.04
Note: Raritan CCP40. Includes testing.		
27 15 23 00-0565 EA 6' Long USB (Universal Serial Bus) Cable.....	9.70	1.63
Note: Includes testing.		
27 15 23 00-0566 EA 10' Long USB (Universal Serial Bus) Cable.....	11.47	2.04
Note: Includes testing.		
27 15 23 00-0567 EA 6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End.....	12.31	1.63
Note: Includes testing.		
27 15 23 00-0568 EA 10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End.....	14.08	2.04
Note: Includes testing.		
27 15 23 00-0569 EA 6' Long Single Mode Patch Cord With SC Connectors At Both Ends.....	19.97	1.63
Note: Includes testing.		
27 15 23 00-0570 EA 20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends.....	42.93	2.04
Note: Includes testing.		
27 15 23 00-0571 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other.....	33.88	1.63
Note: Includes testing.		
27 15 23 00-0572 EA 20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other.....	42.93	2.04
Note: Includes testing.		
27 15 23 00-0573 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other.....	62.77	1.63
Note: Includes testing.		
27 15 23 00-0574 EA 6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other.....	62.77	1.63
Note: Includes testing.		
27 15 23 00-0575 LF 6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	0.76	
Note: Corning part no. 006ESF-T41O1D20. Includes testing.		
27 15 23 00-0576 LF 12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	6.03	
Note: Corning part no. 012ESF-T41O1D20. Includes testing.		
27 15 23 00-0577 LF 24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	7.36	
Note: Corning part no. 024EW4-T41O1D20. Includes testing.		
27 15 23 00-0578 LF 72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	11.93	
Note: Corning part no. 072EW4-T41O1D20. Includes testing.		
27 15 23 00-0579 LF 144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	18.75	
Note: Corning part no. 144EW4-T41O1D20. Includes testing.		
27 15 23 00-0580 LF 36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable.....	11.33	
Note: Corning part no. 036E81-61131-24. Includes testing.		
27 15 23 00-0581 LF 72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable.....	17.30	
Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 15 23 00-0582 EA Aerial Storage Unit.....	83.08	10.18
Note: Alcola part no. FSU-16. Includes testing.		
27 15 23 00-0583 EA Spider Fan-Out Kits With SC Connectors.....	100.26	10.18
Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0584 LF Ultraviolet Resistant Rated Category 6 Cable.....	1.01	0.19
Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 15 23 00-0585 LF RG11 Coaxial Cable NEC CMR.....	3.86	1.91
Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0586 LF Outdoor Rated UL Type CL2.....	3.76	
Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		
27 15 23 00-0587 LF Indoor Plenum Rated UL Type CMP.....	5.27	1.91
Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.		
<b>27 15 33 Communications Coaxial Horizontal Cabling</b> <small>(27 15)</small> Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
<b>27 15 33 00-0001</b>	<b>Indoor Coaxial Cable (27 15 33)</b>	
<b>27 15 33 00-0002</b>	<b>Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)</b>	
<b>27 15 33 00-0003</b>	<b>Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)</b>	
27 15 33 00-0004	MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,213.83
27 15 33 00-0005	MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,644.77
27 15 33 00-0006	MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,055.46
27 15 33 00-0007	MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,310.19
<b>27 15 33 00-0008</b>	<b>Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)</b>	
27 15 33 00-0009	MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	1,925.98
	<i>For Work In Restricted Working Space, Add</i>	427.29
27 15 33 00-0010	MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,356.92
	<i>For Work In Restricted Working Space, Add</i>	427.29
27 15 33 00-0011	MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	1,869.35
	<i>For Work In Restricted Working Space, Add</i>	488.33
27 15 33 00-0012	MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	4,124.08
	<i>For Work In Restricted Working Space, Add</i>	488.33
<b>27 15 33 00-0013</b>	<b>Coaxial Distribution Cable (27 15 33 00-0001)</b>	
	Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal	
27 15 33 00-0014	MLF RG-6/U Coaxial Distribution Cable, In Conduit.....	1,900.96
27 15 33 00-0015	MLF RG-6A/U Coaxial Distribution Cable, In Conduit.....	6,714.48
27 15 33 00-0016	MLF RG-8/U Coaxial Distribution Cable, In Conduit.....	3,600.14
27 15 33 00-0017	MLF RG-8A/U Coaxial Distribution Cable, In Conduit.....	4,504.32
27 15 33 00-0018	MLF RG-11/U Coaxial Distribution Cable, In Conduit.....	4,042.79
27 15 33 00-0019	MLF RG-11A/U Coaxial Distribution Cable, In Conduit.....	5,791.41
27 15 33 00-0020	MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	12,414.75
27 15 33 00-0021	MLF RG-58/U Coaxial Distribution Cable, In Conduit.....	1,418.16
27 15 33 00-0022	MLF RG-58A/U Coaxial Distribution Cable, In Conduit.....	1,597.33
27 15 33 00-0023	MLF RG-58C/U Coaxial Distribution Cable, In Conduit.....	1,912.96
27 15 33 00-0024	MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,625.02
27 15 33 00-0025	MLF RG-59/U Coaxial Distribution Cable, In Conduit.....	2,255.23
27 15 33 00-0026	MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,564.12
27 15 33 00-0027	MLF 1/2" Hard Line Coaxial, In Conduit.....	1,949.57
<b>27 15 33 00-0028</b>	<b>Outdoor Coaxial Cable (27 15 33)</b>	
<b>27 15 33 00-0029</b>	<b>Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028)</b>	
	Note: Corrugated steel armor jacket.	
27 15 33 00-0030	MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	5,470.44
27 15 33 00-0031	MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	3,468.47
27 15 33 00-0032	MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	2,882.68
27 15 33 00-0033	MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	1,627.60
27 15 33 00-0034	MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	2,439.54
<b>27 15 43</b>	<b>Communications Faceplates And Connectors (27 15)</b>	
<b>27 15 43 00-0001</b>	<b>Wall Mounted Telephone Faceplates (27 15 43)</b>	
	Note: Includes standard telephone mounting studs.	
<b>27 15 43 00-0002</b>	<b>Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)</b>	
27 15 43 00-0003	EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	32.94
<b>27 15 43 00-0004</b>	<b>Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)</b>	
27 15 43 00-0005	EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	26.09
	Note: Requires one snap-in modular jack.	
27 15 43 00-0006	EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	46.93
27 15 43 00-0007	EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	54.80
27 15 43 00-0008	EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	25.16
	Note: Requires one snap-in modular jack.	
27 15 43 00-0009	EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	43.01
27 15 43 00-0010	EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	50.98
<b>27 15 43 00-0011</b>	<b>Plastic Communications Faceplates (27 15 43)</b>	
	Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.	
27 15 43 00-0012	EA One Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.66
27 15 43 00-0013	EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.66
27 15 43 00-0014	EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.66
27 15 43 00-0015	EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.66
27 15 43 00-0016	EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.66
27 15 43 00-0017	EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID.....	11.39
27 15 43 00-0018	EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID.....	11.39



**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID .....	11.39	2.55
27 15 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID .....	11.39	2.55
27 15 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID .....	11.39	2.55
<b>27 15 43 00-0022 Stainless Steel Communications Faceplates</b> <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
<b>27 15 43 00-0023 Stainless Steel Communications Faceplates</b> <small>(27 15 43 00-0022)</small>		
27 15 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate .....	13.85	2.55
27 15 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate .....	13.85	2.55
27 15 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate .....	13.85	2.55
27 15 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate .....	14.76	2.55
27 15 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate .....	14.76	2.55
27 15 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate .....	19.65	2.55
27 15 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate .....	20.22	2.55
27 15 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate .....	23.29	2.55
27 15 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate .....	23.29	2.55
27 15 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate .....	23.29	2.55
<b>27 15 43 00-0034 Stainless Steel Communications Faceplates With Station ID</b> <small>(27 15 43 00-0022)</small>		
27 15 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	19.54	2.55
27 15 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	19.54	2.55
27 15 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	19.54	2.55
27 15 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	19.54	2.55
27 15 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	19.54	2.55
27 15 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	41.24	2.55
27 15 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	41.24	2.55
27 15 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	41.24	2.55
27 15 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID .....	41.24	2.55
27 15 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	41.24	2.55
<b>27 15 43 00-0045 Surface Mount Plastic Communication Boxes</b> <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID .....	28.71	12.73
27 15 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID .....	29.28	12.73
27 15 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID .....	33.20	12.73
27 15 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID .....	37.86	12.73
27 15 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID .....	42.75	12.73
<b>27 15 43 00-0051 Snap-In Modular Jacks</b> <small>(27 15 43)</small>		
Note: Includes termination.		
27 15 43 00-0052 EA Cat 3, Snap-In Modular Jack .....	26.85	10.19
27 15 43 00-0053 EA Cat 5E, Snap-In Modular Jack .....	28.10	10.19
27 15 43 00-0054 EA Cat 5E Shielded, Snap-In Modular Jack .....	31.85	10.19
27 15 43 00-0055 EA Cat 6, Snap-In Modular Jack .....	31.85	10.19
27 15 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack .....	36.06	10.19
27 15 43 00-0057 EA Cat 6A, Snap-In Modular Jack .....	36.69	10.19
27 15 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack .....	17.40	5.10
27 15 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack .....	29.69	10.19
27 15 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack .....	32.87	10.19
27 15 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack .....	39.12	10.19
27 15 43 00-0062 EA Blank Fill In, Snap-In Modular Jack .....	5.69	2.55
27 15 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack .....	6.37	2.55
27 15 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack .....	22.21	7.64
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>		1.21
27 15 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack .....	22.44	7.64
Note: Includes female to female connection.		
27 15 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack .....	46.09	10.19
27 15 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack .....	55.30	10.19
27 15 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack .....	27.76	10.19
27 15 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack .....	27.79	5.10
27 15 43 00-0070 EA BNC Connector, Snap-In Modular Jack .....	31.51	10.19
27 15 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack .....	34.92	10.19
27 15 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack .....	45.89	15.28
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack .....	50.60	10.19
<b>27 15 53 Communications Cable Innerduct</b> <small>(27 15)</small>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
<b>27 15 53 00-0001 Indoor Innerduct</b> <small>(27 15 53)</small>		
<b>27 15 53 00-0002 Indoor Innerduct, Installed In Conduit</b> <small>(27 15 53 00-0001)</small>		
<b>27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit</b> <small>(27 15 53 00-0002)</small>		
27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit .....	3,738.93	1,526.03





<b>Communications</b>	<b>27</b>	<b>27</b>
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 53 00-0005	MLF		1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit .....	4,873.20	2,034.71
27 15 53 00-0006	MLF		1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit .....	6,387.42	2,543.39
27 15 53 00-0007	MLF		2" Riser Rated, Indoor Innerduct, Installed In Conduit .....	7,507.08	3,052.06
<b>27 15 53 00-0008</b>			<b>Plenum Rated, Indoor Innerduct, Installed In Conduit</b> (27 15 53 00-0002)		
27 15 53 00-0009	MLF		1" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	5,619.74	1,526.03
27 15 53 00-0010	MLF		1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	7,161.56	2,034.71
27 15 53 00-0011	MLF		1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	9,162.27	2,543.39
27 15 53 00-0012	MLF		2" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	11,020.96	3,052.06
<b>27 15 53 00-0013</b>			<b>Indoor Innerduct, Installed Exposed</b> (27 15 53 00-0001)		
<b>27 15 53 00-0014</b>			<b>Riser Rated, Indoor Innerduct, Installed Exposed</b> (27 15 53 00-0013)		
27 15 53 00-0015	MLF		1" Riser Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,756.29 1,220.83	2,034.71
27 15 53 00-0016	MLF		1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed .....	5,890.54 1,526.03	2,543.39
27 15 53 00-0017	MLF		1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed .....	7,404.78 1,831.24	3,052.06
27 15 53 00-0018	MLF		2" Riser Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,524.43 2,136.44	3,560.74
<b>27 15 53 00-0019</b>			<b>Plenum Rated, Indoor Innerduct, Installed Exposed</b> (27 15 53 00-0013)		
27 15 53 00-0020	MLF		1" Plenum Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,637.10 1,220.83	2,034.71
27 15 53 00-0021	MLF		1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,178.90 1,526.03	2,543.39
27 15 53 00-0022	MLF		1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,179.63 1,831.24	3,052.06
27 15 53 00-0023	MLF		2" Plenum Rated, Indoor Innerduct, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,038.31 2,136.44	3,560.74
<b>27 15 53 00-0024</b>			<b>Outdoor Innerduct</b> (27 15 53)		
<b>27 15 53 00-0025</b>			<b>Outdoor Innerduct, Installed In Conduit</b> (27 15 53 00-0024)		
27 15 53 00-0026	MLF		1" Outdoor Innerduct, Installed In Conduit .....	3,563.56	1,526.03
27 15 53 00-0027	MLF		1-1/4" Outdoor Innerduct, Installed In Conduit .....	4,614.59	2,034.71
27 15 53 00-0028	MLF		1-1/2" Outdoor Innerduct, Installed In Conduit .....	5,864.53	2,543.39
27 15 53 00-0029	MLF		2" Outdoor Innerduct, Installed In Conduit .....	7,012.25	3,052.06
<b>27 15 53 00-0030</b>			<b>Outdoor Innerduct, Buried In Trench</b> (27 15 53 00-0024)		
27 15 53 00-0031	MLF		1" Outdoor Innerduct, Buried In Trench .....	2,546.21	
27 15 53 00-0032	MLF		1-1/4" Outdoor Innerduct, Buried In Trench .....	3,597.23	
27 15 53 00-0033	MLF		1-1/2" Outdoor Innerduct, Buried In Trench .....	4,847.19	
27 15 53 00-0034	MLF		2" Outdoor Innerduct, Buried In Trench .....	5,994.89	
<b>27 16</b>			<b>Communications Connecting Cords, Devices, And Adapters</b> (27 10)		
<b>27 16 16</b>			<b>Communications Media Converters, Adapters, and Transceivers</b> (27 16)		
<b>27 16 16 00-0001</b>			<b>Fiber Optic Receivers</b> (27 16 16)		
27 16 16 00-0002	EA		Fiber Optic Receiver, Range 6.2 Miles .....	662.95	50.86
27 16 16 00-0003	EA		Fiber Optic MM Dual Video Receiver, Manual Gain..... Note: With video presence Ind, RM.	709.60	100.20
<b>27 16 16 00-0004</b>			<b>Fiber Optic Transmitters</b> (27 16 16)		
27 16 16 00-0005	EA		Fiber Optic Transmitter, Range 6.2 Miles.....	662.94	50.86
27 16 16 00-0006	EA		Fiber Optic MM Dual Video Transmitter Video Presence Indicator .....	709.60	100.20
<b>27 16 16 00-0007</b>			<b>Fiber Optic Repeaters</b> (27 16 16)		
			Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008	EA		Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power .....	764.67	101.74
27 16 16 00-0009	EA		Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power .....	1,216.32	203.47
<b>27 16 16 00-0010</b>			<b>Fiber Optic Transceivers</b> (27 16 16)		
27 16 16 00-0011	EA		Fiber Optic Transceivers, 3,000 Miles Range .....	835.64	203.47
27 16 16 00-0012	EA		Fiber Optic Transceivers, Digital 2,000 Miles Range .....	835.64	203.47
27 16 16 00-0013	EA		Fiber Optic Ethernet Transceiver .....	1,091.08	305.21
27 16 16 00-0014	EA		Transceiver (Low Cost Bi- Directional).....	381.51	76.30
<b>27 16 19</b>			<b>Communications Patch Cords, Station Cords, And Cross Connect Wire</b> (27 16)		

**27 Communications****27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, And Adapters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 16 19 00-0001</b> <b>Cross Connect Wire</b> <small>(27 16 19)</small> Note: Up to 20' length.		
27 16 19 00-0002 EA 2-Pair Cross Connect Wire .....	16.26	
27 16 19 00-0003 EA 3-Pair Cross Connect Wire .....	21.78	
27 16 19 00-0004 EA 4-Pair Cross Connect Wire .....	27.24	
<b>27 16 19 00-0005</b> <b>Fiber Optic Patch Cords</b> <small>(27 16 19)</small>		
<b>27 16 19 00-0006</b> <b>Simplex Fiber Optic Patch Cables</b> <small>(27 16 19 00-0005)</small>		
<b>27 16 19 00-0007</b> <b>Singlemode, Simplex Fiber Optic Patch Cables</b> <small>(27 16 19 00-0006)</small>		
27 16 19 00-0008 EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	35.24	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009 EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	29.19	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010 EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	37.06	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0011 EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	30.58	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0012 EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	34.99	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0013 EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	34.50	
For Each Additional Meter In Length, Add	0.26	
<b>27 16 19 00-0014</b> <b>Duplex Fiber Optic Patch Cables</b> <small>(27 16 19 00-0005)</small>		
<b>27 16 19 00-0015</b> <b>Singlemode, Duplex Fiber Optic Patch Cables</b> <small>(27 16 19 00-0014)</small>		
27 16 19 00-0016 EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	59.58	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017 EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	57.88	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018 EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	63.94	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0019 EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	50.26	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0020 EA SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	59.08	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021 EA LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	58.11	
For Each Additional Meter In Length, Add	0.51	
<b>27 16 19 00-0022</b> <b>Multimode, Duplex Fiber Optic Patch Cables</b> <small>(27 16 19 00-0014)</small>		
27 16 19 00-0023 EA ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	45.59	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024 EA ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	49.54	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025 EA ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	49.95	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026 EA ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	51.22	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027 EA SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	45.76	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028 EA SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	51.45	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029 EA SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	60.03	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030 EA MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	42.11	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031 EA LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	50.70	
For Each Additional Meter In Length, Add	1.48	
<b>27 16 19 00-0032</b> <b>Fiber Optic Cable Pig Tail</b> <small>(27 16 19)</small>		
27 16 19 00-0033 EA Simplex Fiber Optic Cable Pig Tail.....	64.74	35.60
27 16 19 00-0034 EA Duplex Fiber Optic Cable Pig Tail.....	79.10	35.60
<b>27 16 19 00-0035</b> <b>Ethernet Patch Cords</b> <small>(27 16 19)</small>		
27 16 19 00-0036 EA 3' Category 5E Patch Cables With Boots.....	12.39	
27 16 19 00-0037 EA 5' Category 5E Patch Cables With Boots.....	13.47	
27 16 19 00-0038 EA 7' Category 5E Patch Cables With Boots.....	14.56	
27 16 19 00-0039 EA 10' Category 5E Patch Cables With Boots.....	21.21	
27 16 19 00-0040 EA 15' Category 5E Patch Cables With Boots.....	26.69	
27 16 19 00-0041 EA 25' Category 5E Patch Cables With Boots.....	34.92	
27 16 19 00-0042 EA 3' Category 6 Patch Cables With Boots.....	13.68	
27 16 19 00-0043 EA 5' Category 6 Patch Cables With Boots.....	16.42	
27 16 19 00-0044 EA 7' Category 6 Patch Cables With Boots.....	16.47	
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots.....	19.90	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots.....	26.28	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots.....	32.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots .....	50.75	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots .....	88.24	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots .....	24.83	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots .....	26.46	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots .....	27.68	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots .....	32.05	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots .....	39.06	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots .....	49.57	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots .....	73.16	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots .....	129.01	
27 16 19 00-0058 EA 3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06) .....	12.39	
27 16 19 00-0059 EA 5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06) .....	13.47	
27 16 19 00-0060 EA 7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06) .....	14.56	
27 16 19 00-0061 EA 10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06) .....	21.21	
27 16 19 00-0062 EA 15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06) .....	26.69	
27 16 19 00-0063 EA 25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06) .....	34.92	
27 16 19 00-0064 EA 3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06) .....	13.68	
27 16 19 00-0065 EA 5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06) .....	16.42	
27 16 19 00-0066 EA 7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06) .....	16.47	
27 16 19 00-0067 EA 10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06) .....	19.90	
27 16 19 00-0068 EA 15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06) .....	26.28	
27 16 19 00-0069 EA 25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06) .....	32.70	
27 16 19 00-0070 EA 3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09) .....	24.83	
27 16 19 00-0071 EA 5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09) .....	26.46	
27 16 19 00-0072 EA 7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09) .....	27.68	
27 16 19 00-0073 EA 10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09) .....	32.05	
27 16 19 00-0074 EA 15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09) .....	39.06	
27 16 19 00-0075 EA 25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09) .....	49.57	

## 27 20 Data Communications <sup>(27)</sup>

### 27 21 Data Communications Network Equipment <sup>(27 20)</sup>

Note: Includes testing of new devices and certification.

#### 27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

<sup>(27 21)</sup>

##### 27 21 16 00-0001 Fiber Optic Modems <sup>(27 21 16)</sup>

27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles .....	1,342.28	203.47
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel .....	2,511.45	203.47

##### 27 21 16 00-0004 Ethernet Hubs and Switches <sup>(27 21 16)</sup>

27 21 16 00-0005 EA 16 Port Managed Hub With Fiberport And Standard Management .....	2,452.97	152.80
27 21 16 00-0006 EA 16 Port Unmanaged Hub .....	467.23	101.87
27 21 16 00-0007 EA 12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E) .....	3,308.75	101.87
27 21 16 00-0008 EA Power Supply (Cisco PWR-IE170W-PC-AC) .....	991.87	50.94

##### 27 21 16 00-0009 Network Equipment <sup>(27 21 16)</sup>

##### 27 21 16 00-0010 Communications Entrance Protection <sup>(27 21 16 00-0009)</sup>

27 21 16 00-0011 EA 100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C) .....	718.27	76.40
Note: Excludes terminations.		
27 21 16 00-0012 EA Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S) .....	8.72	1.02

##### 27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures <sup>(27 21 16 00-0009)</sup>

27 21 16 00-0014 EA 19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736) .....	863.06	76.40
<i>For Fan Kit (Chatsworth 12804-701), Add 114.10</i>		
27 21 16 00-0015 EA 10 Outlet, 125 Volt, 20 Amp Telecommunications Cabinet Power Strip (Chatsworth 13239-757) .....	751.67	5.10

##### 27 21 16 00-0016 Communications Termination Blocks And Patch Panels <sup>(27 21 16 00-0009)</sup>

##### 27 21 16 00-0017 Communications Termination Blocks <sup>(27 21 16 00-0016)</sup>

27 21 16 00-0018 EA 4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810) .....	269.95	15.26
27 21 16 00-0019 EA 5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802) .....	251.41	15.26
27 21 16 00-0020 EA 4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869) .....	598.95	15.26
27 21 16 00-0021 EA 5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851) .....	557.26	15.26
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593) .....	86.44	15.26
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585) .....	93.17	15.26
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816) .....	105.78	15.26

##### 27 21 16 00-0025 Communications Copper Patch Panels <sup>(27 21 16 00-0016)</sup>

Note: Excludes cabinet and terminations.

27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919) .....	269.81	33.10
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935) .....	488.67	40.75
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372) .....	396.82	33.10
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380) .....	737.41	40.75

<b>27</b>	<b>Communications</b>
<b>27 20</b>	<b>Data Communications</b>
<b>27 21</b>	<b>Data Communications Network Equipment</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

27 21 16 00-0030		<b>Communications Optical Fiber Patch Panels</b> (27 21 16 00-0016)		
27 21 16 00-0031		<b>Closet Connector Housings</b> (27 21 16 00-0030)		
27 21 16 00-0032	EA	48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	306.77	20.37
		Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033	EA	96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	357.08	20.37
		Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034	EA	288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	443.83	20.37
		Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035	EA	SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	96.64	10.19
27 21 16 00-0036	EA	SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	130.76	10.19
27 21 16 00-0037	EA	SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	108.69	10.19
27 21 16 00-0038	EA	SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	141.79	10.19
27 21 16 00-0039		<b>Communications Cable Management</b> (27 21 16 00-0009)		
27 21 16 00-0040		<b>Horizontal Communication Cable Management</b> (27 21 16 00-0039)		
27 21 16 00-0041	EA	1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	104.47	20.37
27 21 16 00-0042	EA	3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	107.78	20.37
27 21 16 00-0043		<b>Vertical Communication Cable Management</b> (27 21 16 00-0039)		
27 21 16 00-0044	EA	6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	603.15	50.94
27 21 16 00-0045	EA	19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	624.52	50.94
27 21 16 00-0046	EA	23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	672.62	50.94
27 21 16 00-0047		<b>Communications Patch Cords, Station Cords, And Cross Connect Wire</b> (27 21 16 00-0009)		
27 21 16 00-0048		<b>Premise Cross-Connect Wire</b> (27 21 16 00-0047)		
27 21 16 00-0049	LF	1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.05	0.51
27 21 16 00-0050		<b>Pathways For Communications Systems</b> (27 21 16 00-0009)		
27 21 16 00-0051		<b>Conduits And Backboxes For Communication Systems</b> (27 21 16 00-0050)		
27 21 16 00-0052		<b>Flexible Conduit For Communication Systems</b> (27 21 16 00-0051)		
27 21 16 00-0053	CLF	1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton DF4X1C).....	410.95	183.12
27 21 16 00-0054	CLF	1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton CF4X1C).....	583.68	183.12
27 21 16 00-0055		<b>Tube Cables For Communication Systems</b> (27 21 16 00-0051)		
27 21 16 00-0056		<b>Outdoor/All-Dielectric Tube Cables</b> (27 21 16 00-0055)		
27 21 16 00-0057	CLF	Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	348.85	122.08
27 21 16 00-0058	CLF	Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX).....	518.53	152.60
27 21 16 00-0059	CLF	Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	857.37	183.12
27 21 16 00-0060		<b>Indoor/Riser Rated Tube Cables</b> (27 21 16 00-0055)		
27 21 16 00-0061	CLF	Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	399.17	122.08
27 21 16 00-0062	CLF	Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	487.52	137.34
27 21 16 00-0063	CLF	Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	553.48	152.60
27 21 16 00-0064	CLF	Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,015.33	183.12
27 21 16 00-0065		<b>Indoor/Plenum Rated Tube Cables</b> (27 21 16 00-0055)		
27 21 16 00-0066	CLF	Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	294.33	122.08
27 21 16 00-0067	CLF	Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	422.94	122.08
27 21 16 00-0068	CLF	Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	649.67	137.34
27 21 16 00-0069	CLF	Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	943.48	152.60
27 21 16 00-0070	CLF	Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	2,923.44	183.12
27 21 16 00-0071		<b>Unjacketed Single Tube Cables</b> (27 21 16 00-0055)		
27 21 16 00-0072	CLF	Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	255.19	122.08
27 21 16 00-0073		<b>Multimode Fiber Bundles</b> (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0074	CLF	2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6).....	108.57	36.63
27 21 16 00-0075	CLF	4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6).....	163.09	36.63
27 21 16 00-0076	CLF	6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6).....	221.80	36.63
27 21 16 00-0077	CLF	12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6).....	400.72	36.63
27 21 16 00-0078	CLF	18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6).....	580.04	42.73
27 21 16 00-0079	CLF	24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6).....	758.97	42.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 21 16 00-0080</b> <b>Singlemode Fiber Bundles</b> <small>(27 21 16 00-0055)</small> Note: Includes optical fiber cables.		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX).....	97.38	36.63
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX).....	121.15	36.63
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX).....	140.72	36.63
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX).....	178.46	36.63
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX).....	272.50	42.73
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX).....	357.78	42.73
<b>27 21 16 00-0087</b> <b>Tube Distribution Cabinets</b> <small>(27 21 16 00-0055)</small>		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)..... Note: Up to six 7-tube cables or two 19-tube cables.	210.58	50.94
<b>27 21 16 00-0089</b> <b>Modular Fiber Termination Cabinets</b> <small>(27 21 16 00-0055)</small>		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM).....	265.39	50.94
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM).....	282.73	50.94
<b>27 21 16 00-0092</b> <b>Tube Distribution Accessories</b> <small>(27 21 16 00-0055)</small>		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA).....	12.13	5.10
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2).....	13.35	5.10
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB).....	16.48	5.10
<b>27 21 16 00-0096</b> <b>Communications Optical Fiber Cabling</b> <small>(27 21 16 00-0009)</small>		
<b>27 21 16 00-0097</b> <b>Communications Optical Fiber Cable Splicing And Terminations</b> <small>(27 21 16 00-0096)</small>		
<b>27 21 16 00-0098</b> <b>Field Installed Fiber Connectors</b> <small>(27 21 16 00-0097)</small>		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42).....	34.96	7.64
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41).....	30.95	7.64
<b>27 21 16 00-0101</b> <b>Buffer Tube Fan-Out Kits</b> <small>(27 21 16 00-0097)</small>		
<b>27 21 16 00-0102</b> <b>Buffer Tube Breakout Kits (Sumitomo)</b> <small>(27 21 16 00-0101)</small> Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02).....	220.24	101.74
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04).....	224.44	101.74
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06).....	228.14	101.74
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12).....	239.65	101.74
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18).....	255.39	101.74
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24).....	267.07	101.74
<b>27 21 16 00-0109</b> <b>Buffer Tube Fan-Out Kits (Corning)</b> <small>(27 21 16 00-0101)</small>		
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12).....	222.19	101.74
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12).....	263.72	101.74
<b>27 21 16 00-0112</b> <b>Communications Copper Cabling</b> <small>(27 21 16 00-0009)</small>		
<b>27 21 16 00-0113</b> <b>Copper Communications Cable Splicing And Terminations</b> <small>(27 21 16 00-0112)</small>		
<b>27 21 16 00-0114</b> <b>Copper Communications Cable Splice Cases</b> <small>(27 21 16 00-0113)</small>		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626).....	828.34	203.47
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630).....	948.79	203.47
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219).....	1,349.00	203.47
<b>27 21 16 00-0118</b> <b>Modular Splice Connectors</b> <small>(27 21 16 00-0113)</small>		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25).....	107.58	50.86
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25).....	106.28	50.86
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25).....	107.61	50.86
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25).....	107.43	50.86
<b>27 21 26</b> <b>Data Communications Network Management</b> <small>(27 21)</small>		
<b>27 21 26 00-0001</b> <b>Data Communications Network Management</b> <small>(27 21 26)</small>		
27 21 26 00-0002 EA 3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	434.67	25.44
27 21 26 00-0003 EA 2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	348.32	25.44
27 21 26 00-0004 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	466.06	25.44
27 21 26 00-0005 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	725.06	25.44
27 21 26 00-0006 EA 24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	68.51	
27 21 26 00-0007 EA Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	301.78	15.26
27 21 26 00-0008 EA Sennetech Code Translator (Pelco SCT_100_AD232).....	566.87	25.44



<b>27</b>	<b>Communications</b>
<b>27 20</b>	<b>Data Communications</b>
<b>27 21</b>	<b>Data Communications Network Equipment</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 26 00-0009 EA VPN Router (Cisco 819HG) .....	3,414.75	325.99
27 21 26 00-0010 EA Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC) .....	2,606.46	325.99
27 21 26 00-0011 EA WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+) .....	23,935.64	122.08
27 21 26 00-0012 EA SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV) .....	2,096.99	
27 21 26 00-0013 EA Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8) .....	8,397.09	122.08
27 21 26 00-0014 EA Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2) .....	17,411.34	122.08
27 21 26 00-0015 EA Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E) .....	423.33	10.19
27 21 26 00-0016 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV) .....	2,805.70	12.71
27 21 26 00-0017 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2) .....	3,020.44	12.71
27 21 26 00-0018 EA 13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US) .....	50.19	5.10
27 21 26 00-0019 EA 1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=) .....	211.74	50.86
27 21 26 00-0020 EA Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS) .....	3,276.16	122.08
27 21 26 00-0021 EA SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS) .....	499.99	
27 21 26 00-0022 EA North America AC Type A Power Cable (Cisco CAB-TA-NA) .....	24.24	5.10
27 21 26 00-0023 EA 350 Watt AC Power Supply (Cisco PWR-C1-350WAC) .....	266.94	12.71
27 21 26 00-0024 EA Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G) .....	525.47	12.73
27 21 26 00-0025 EA 1', Catalyst 3750X and 3850 Stack Power Cable (Cisco CAB-SPWR-30CM) .....	120.72	5.10
27 21 26 00-0026 EA Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC) .....	3,333.88	122.08
27 21 26 00-0027 EA SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8) .....	449.99	
27 21 26 00-0028 EA IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA) .....	485.44	12.71
27 21 26 00-0029 EA IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IAR) .....	519.44	12.71
27 21 26 00-0030 EA 4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC) .....	1,063.19	122.08
27 21 26 00-0031 EA Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC) .....	215.47	12.73
27 21 26 00-0032 EA 4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM) .....	1,100.47	12.73
27 21 26 00-0033 EA Router (CISCO IR829) .....	1,151.87	50.94

### 27 21 29 Data Communications Switches and Hubs (27 21)

#### 27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002 EA 12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded .....	84.31	5.09
27 21 29 00-0003 EA 16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded .....	92.92	5.09
27 21 29 00-0004 EA 24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded .....	109.56	5.09
27 21 29 00-0005 EA 36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded .....	114.67	5.09
27 21 29 00-0006 EA 48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded .....	125.62	6.36
27 21 29 00-0007 EA 24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded .....	118.91	5.09
27 21 29 00-0008 EA 48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded .....	149.21	6.36
27 21 29 00-0009 EA Rack Mount Rear Cable Management Bar .....	42.40	6.36

### 27 21 33 Data Communications Wireless Access Points (27 21)

#### 27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)

27 21 33 00-0002 EA Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU) .....	3,226.61	152.60
27 21 33 00-0003 EA Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1) .....	7,654.16	152.60
27 21 33 00-0004 EA Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9) .....	7,654.16	152.60
27 21 33 00-0005 EA Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA) .....	1,490.66	152.60
27 21 33 00-0006 EA Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR) .....	1,738.36	166.21
27 21 33 00-0007 EA Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G) .....	4,831.41	166.21
27 21 33 00-0008 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G) .....	7,331.41	166.21
27 21 33 00-0009 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G) .....	7,331.41	166.21
27 21 33 00-0010 EA 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50) .....	1,506.26	55.40
27 21 33 00-0011 EA 100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100) .....	1,737.26	55.40
27 21 33 00-0012 EA Gigabit, 32W, PoE Injector With RJ45 And Reload Button (Proxim Wireless ETH-POEINJ-1G) .....	142.03	27.70
27 21 33 00-0013 EA Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G) .....	144.65	27.70
27 21 33 00-0014 EA ORINOCO Dual Band Range Extender Antenna (Proxim Wireless 1086-REA) .....	265.04	50.86
27 21 33 00-0015 EA 5 dBi, ORINOCO 2.4GHz Omni Antenna (Proxim Wireless 1086-OA24-5) .....	209.34	50.86
27 21 33 00-0016 EA 8.5 dBi, ORINOCO 2.4GHz Panel Antenna (Proxim Wireless 1086-PA24-8.5) .....	297.95	50.86
27 21 33 00-0017 EA 9.5 dBi, ORINOCO 2.4GHz Panel Antenna (Proxim Wireless 1086-PA24-9.5) .....	297.95	50.86
27 21 33 00-0018 EA 7 dBi, ORINOCO 5GHz Panel Antenna (Proxim Wireless 1086-PA50-7) .....	285.29	50.86
27 21 33 00-0019 EA FlexPort23 330 Mbps With Rectangular Antenna Interface, Band 6 (BridgeWave Communications FP23-1200R6) .....	29,318.71	101.74
27 21 33 00-0020 EA FlexPort23 330 Mbps With Rectangular Antenna Interface, Band 7 (BridgeWave Communications FP23-1200R7) .....	29,318.71	101.74
27 21 33 00-0021 EA FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM) .....	1,100.00	
27 21 33 00-0022 EA FlexPort 18 (23) Capacity Upgrade, 330-660 Mbps (BridgeWave Communications FP18(23)CU330-660) .....	2,531.76	
27 21 33 00-0023 EA SFP, GigE, Multimode Fiber (LC) Interface (BridgeWave Communications BRG171-00511) .....	240.74	25.44
27 21 33 00-0024 EA 1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR) .....	415.74	50.86
27 21 33 00-0025 EA FPUWave 2nd Year Extended Warranty And NDR (BridgeWave Communications FPU-WAVE-EWNR-2) .....	4,367.29	
27 21 33 00-0026 EA Cisco #AIR-ANT5959, 2.4 GHZ - 2.0/2.35 dBi antenna .....	469.00	50.86
27 21 33 00-0027 EA Verizon LTE Modem (Sierra Wireless AirLink GX440 LTE VZW) .....	1,187.49	50.86
27 21 33 00-0028 EA Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH) .....	348.49	50.86
27 21 33 00-0029 EA AirLink GX400 Modem Mounting Bracket (Sierra Wireless 1202404) .....	55.38	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Data Communications</b>	<b>27 20</b>	
<b>Data Communications Network Equipment</b>	<b>27 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0030 EA Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	66.89	20.35
27 21 33 00-0031 EA AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	39.58	
27 21 33 00-0032 EA AirLink GX400 Power Cable (Sierra Wireless 2000380).....	31.99	
27 21 33 00-0033 EA Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	231.68	50.86
27 21 33 00-0034 EA Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	232.98	50.86
27 21 33 00-0035 EA 2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D).....	383.85	50.94
27 21 33 00-0036 EA Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	781.75	76.40
27 21 33 00-0037 EA Wireless Cellular Modem (Sierra Wireless AirLink GX440 LTE/EVDO/GPS).....	1,096.75	76.40
27 21 33 00-0038 EA Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	991.75	76.40
27 21 33 00-0039 EA Magnetic Mount Cellular Antenna (Wilson Electronics 301125).....	58.87	15.26
27 21 33 00-0040 EA Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	278.80	55.40
27 21 33 00-0041 EA Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	709.30	55.40
27 21 33 00-0042 EA PowerBridge M5: Carrier Class 5GHz MIMO Bridging Solution Featuring Super Efficient 25dBi MIMO Antenna Array (Ubiquiti Networks PBM-5).....	393.03	50.94
27 21 33 00-0043 EA Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC).....	3,196.87	50.94
27 21 33 00-0044 EA Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,047.74	50.86

**27 22 Data Communications Hardware** (27 20)

**27 22 19 Data Communications Servers** (27 22)

**27 22 19 00-0001 Network Communications Frames And Enclosures** (27 22 19)

27 22 19 00-0002 EA Communications Equipment Enclosure.....	12,612.89	305.62
Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72"Hx72"Wx36"D, .0125 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19"/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.		
27 22 19 00-0003 EA Wall Mounted Equipment Cabinet.....	878.05	101.87
Note: Mid-Atlantic DWR-24-22 PD.		
27 22 19 00-0004 EA APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	6,858.49	
Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Sthle Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		
27 22 19 00-0005 APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	23,017.25	
Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Sthle Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		

**27 24 Data Communications Peripheral Data Equipment** (27 20)

**27 24 19 External Drives** (27 24)

**27 24 19 00-0001 Network Equipment** (27 24 19)

27 24 19 00-0002 EA 19" Rack Mountable 110-24T Ethernet Switch.....	386.61	33.88
Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.		
27 24 19 00-0003 EA 19" Rack Mountable Station Access Router.....	1,979.01	178.03
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0004 EA 19" Rack Mount LCD Monitor.....	947.04	81.39
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0005 EA 1000VA UPS (Uninterruptible Power Supply).....	904.58	92.92
Note: APC SUA1000RM2U. Includes testing.		
27 24 19 00-0006 EA 1000VA UPS (Uninterruptible Power Supply).....	398.86	92.92
Note: APC BR1000. Includes testing.		
27 24 19 00-0007 EA 1200VA UPS (Uninterruptible Power Supply).....	407.99	92.92
Note: APC BR1200. Includes testing.		

**27 30 Voice Communications** (27)

**27 31 Voice Communications Switching and Routing Equipment** (27 30)

Note: Includes testing of new devices and certification.

**27 31 13 PBX/Key Systems** (27 31)

**27 Communications****27 30 Voice Communications****27 31 Voice Communications Switching and Routing Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 31 13 00-0001 Interior PBX Telephone System <sup>(27 31 13)</sup> Note: Includes telephone instruments cabling and solid state switching.		
27 31 13 00-0002 Interior PBX Telephone System <sup>(27 31 13 00-0001)</sup> Note: Cost is for each line up to 1000 lines.		
27 31 13 00-0003 EA 1 Line PBX Connection, Cost Per Each Line Up To 1,000.....	1,366.67	530.23
27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) <sup>(27 31 13 00-0001)</sup>		
27 31 13 00-0005 EA Add For Each Additional PBX Phone Line Less Solid State Switching .....	400.30	41.72
27 31 13 00-0006 Telephones <sup>(27 31 13 00-0001)</sup>		
27 31 13 00-0007 EA Telephones, Desk Type Intercommunication Equipment.....	169.08	39.67
27 31 13 00-0008 EA Telephones, Wall Type Intercommunication Equipment.....	195.82	52.91
27 32 Voice Communications Terminal Equipment <sup>(27 30)</sup> Note: Includes testing of new devices and certification.		
27 32 13 Telephone Sets <sup>(27 32)</sup>		
27 32 13 00-0001 Interior Telephone Components <sup>(27 32 13)</sup>		
27 32 13 00-0002 EA Solid State Exchange Unit With Power Supply .....	4,885.01	929.65
27 32 13 00-0003 EA Dial Telephone - Handset In Cabinet .....	569.86	76.00
27 32 13 00-0004 EA Elevator Cab Telephone With Trailer Cable.....	309.31	81.49
27 32 13 00-0005 EA Loud Ring Bell, 6" .....	248.14	75.59
27 32 13 00-0006 EA Audio/Visual Indicator .....	304.45	71.21
27 32 13 00-0007 EA Administrative Telephone With Digital Display .....	312.31	63.89
27 32 13 00-0008 EA Processing Unit For 16 Station System.....	1,643.33	521.19
27 32 13 00-0009 EA Handset For 16 Station System .....	223.40	51.88
27 32 13 00-0010 EA Handset In Cabinet, For 16 Station System .....	302.49	70.00
27 32 13 00-0011 MLF 20 Conductor Unshielded Cable, #22 .....	2,327.49	1,121.84
27 32 13 00-0012 EA Power Supply For 16 Station System .....	315.19	138.46
27 32 13 00-0013 EA Intercom Terminal Board.....	294.26	155.85
27 32 13 00-0014 EA Power Supply For Five Station System, 24 Volt DC.....	325.08	138.46
27 32 13 00-0015 EA Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick .....	153.55	56.87
27 32 13 00-0016 EA Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep .....	455.61	125.17
27 32 13 00-0017 EA Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep .....	535.47	142.27
27 32 13 00-0018 EA Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep .....	647.51	168.38
27 32 13 00-0019 EA Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep .....	756.40	182.04
27 32 13 00-0020 EA Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep .....	1,143.75	207.13
27 32 13 00-0021 EA Ring Rung 3" .....	10.49	5.67
27 32 13 00-0022 EA G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID .....	25.39	10.07
27 32 13 00-0023 EA G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing.....	47.45	20.65
27 32 13 00-0024 Interior Telephone Accessories <sup>(27 32 13)</sup>		
27 32 13 00-0025 EA Blank Telephone Receptacle, Exposed Devices - Complete .....	11.57	5.49
27 32 13 00-0026 EA 4-Pin Telephone Receptacle, Exposed Devices - Complete.....	26.27	21.16
27 32 13 00-0027 EA Level 5, RJ-45 Jack, Dual Flush Mounted - Complete .....	67.49	23.23
27 32 13 00-0028 EA Level 5, RJ-45 Jack, Wall Mount - Complete .....	62.82	23.23
27 32 13 00-0029 EA Terminating Strips, Inside .....	127.95	46.47
27 32 13 00-0030 EA Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete.....	53.21	23.90
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair .....	154.81	56.05
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair .....	183.54	62.66
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair.....	60.57	18.82
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete .....	52.17	23.60
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair .....	758.10	135.92
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair .....	918.88	138.05
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair .....	299.78	56.56
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair .....	310.99	56.56
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair .....	412.71	72.33
27 32 13 00-0040 EA Pedestal 10" x 16" x 43" 600 Pair.....	873.55	130.33
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair .....	1,236.31	148.74
27 32 13 00-0042 EA Gas Protection Module.....	16.77	5.09
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair.....	32.65	4.65
27 32 26 Ring-Down Emergency Telephones <sup>(27 32)</sup>		
27 32 26 00-0001 Emergency Telephone <sup>(27 32 26)</sup> Note: Standard features include: CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70w area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant Lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.		
27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s).....	7,227.47	415.62
Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, hard wire phone line, passive vent at top, 24V AC, and standard color.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d) .....7,571.14	7,571.14	415.62
Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0004 EA Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2).....114.56	114.56	
27 32 26 00-0005 EA Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K) .....171.84	171.84	
27 32 26 00-0006 EA IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1) .....429.59	429.59	
27 32 26 00-0007 EA IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2).....584.24	584.24	
27 32 26 00-0008 EA IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K).....641.52	641.52	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option .....11.46	11.46	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option.....11.46	11.46	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option.....103.10	103.10	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option .....1,088.30	1,088.30	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option .....504.05	504.05	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option.....1,632.44	1,632.44	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option.....3,430.99	3,430.99	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option .....183.29	183.29	
27 32 26 00-0017 EA Night Charge Power Code Blue Option.....1,598.08	1,598.08	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option .....400.95	400.95	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option .....910.73	910.73	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option .....40.10	40.10	
<b>27 32 26 00-0021 City Police Call System (27 32 26)</b>		
<b>27 32 26 00-0022 Components (27 32 26 00-0021)</b>		
27 32 26 00-0023 EA City Police Call System .....573.16	573.16	118.63
27 32 26 00-0024 EA Concrete Foundation For Police Department Telephone Post.....543.11	543.11	171.83

**27 40 Audio-Video Communications (27)**

**27 41 Audio-Video Systems (27 40)**

**27 41 16 Integrated Audio-Video Systems and Equipment (27 41)**

Note: Includes testing of new devices and certification.

**27 41 16 00-0001 Television Distribution System (27 41 16)**

See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.

**27 41 16 00-0002 Mounted Television Support (27 41 16 00-0001)**

27 41 16 00-0003 EA Ceiling Mounted Television Support, 19" To 20".....352.55	352.55	114.10
27 41 16 00-0004 EA Ceiling Mounted Television Support, 19" To 20" With Rack.....443.70	443.70	127.34
27 41 16 00-0005 EA Ceiling Mounted Television Support, 25" To 27".....365.27	365.27	114.10
27 41 16 00-0006 EA Ceiling Mounted Television Support, 25" To 27" With Rack.....456.42	456.42	127.34
27 41 16 00-0007 EA Wall Mounted Television Support, 13" .....278.40	278.40	91.68
27 41 16 00-0008 EA Wall Mounted Television Support, 13" With Rack .....369.56	369.56	101.87
27 41 16 00-0009 EA Wall Mounted Television Support, 19" To 20".....295.09	295.09	91.68
27 41 16 00-0010 EA Wall Mounted Television Support, 19" To 20" With Rack.....386.24	386.24	101.87
27 41 16 00-0011 EA Wall Mounted Television Support, 25" To 27".....311.78	311.78	91.68
27 41 16 00-0012 EA Wall Mounted Television Support, 25" To 27" With Rack.....402.93	402.93	101.87

**27 41 16 00-0013 Distribution System (27 41 16 00-0001)**

See CSI section 26 05 13 16-0001 for wire and cabling.

**27 41 16 00-0014 TV Distribution Rack (27 41 16 00-0013)**

27 41 16 00-0015 EA Steel Rack Cabinet With Shelves .....1,097.71	1,097.71	187.09
27 41 16 00-0016 EA Switch And Pilot Light .....195.16	195.16	83.12
27 41 16 00-0017 LF Surface Raceway With Outlets .....23.97	23.97	11.29
27 41 16 00-0018 EA Service Label.....29.42	29.42	15.57

**27 41 16 00-0019 Head End Amplifier (27 41 16 00-0013)**

27 41 16 00-0020 EA Head End Amplifier .....732.26	732.26	124.53
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**27 41 16 00-0021 UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)**

27 41 16 00-0022 EA UHF In-Line Booster .....451.03	451.03	124.53
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**27 41 16 00-0023 Preamplifiers (27 41 16 00-0013)**

27 41 16 00-0024 EA VHF Preamplifier.....550.06	550.06	124.53
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<b>27</b>	<b>Communications</b>
<b>27 40</b>	<b>Audio-Video Communications</b>
<b>27 41</b>	<b>Audio-Video Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 16 00-0025 EA UHF Preamplifier.....	451.03	124.53
<b>27 41 16 00-0026 Power Supplies (27 41 16 00-0013)</b>		
27 41 16 00-0027 EA Common Power Supply .....	785.80	177.93
<b>27 41 16 00-0028 Line Splitter And Mixer (27 41 16 00-0013)</b>		
27 41 16 00-0029 EA Line Splitter .....	79.74	41.51
27 41 16 00-0030 EA Two-Way Splitter.....	87.62	41.51
27 41 16 00-0031 EA Frequency Filter.....	181.01	62.36
27 41 16 00-0032 EA Line Splitter And Mixer .....	242.45	91.56
<b>27 41 16 00-0033 Power Line Filters (27 41 16 00-0013)</b>		
27 41 16 00-0034 EA 120-Volt Power Supply Line Filter.....	333.79	83.12
<b>27 41 16 00-0035 Wall Box And Receiver Outlets (27 41 16 00-0013)</b>		
27 41 16 00-0036 EA Wall Box With Lockable Cover, Excluding Outlet Plug.....	181.01	62.36
27 41 16 00-0037 EA TV Receiver Outlet Plug.....	87.62	41.51
27 41 16 00-0038 EA TV Camera Outlet Plug .....	87.62	41.51
27 41 16 00-0039 EA Audio Outlet Plug .....	77.75	41.51
27 41 16 00-0040 EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	160.50	83.12
27 41 16 00-0041 EA Male Plug PL-259.....	87.62	41.51
27 41 16 00-0042 EA Wall Box And Receiver Outlet Television Outlets.....	108.00	43.54
<b>27 41 33 Master Antenna Television Systems (27 41)</b>		
<b>27 41 33 00-0001 Antenna Systems (27 41 33)</b>		
<b>27 41 33 00-0002 Antenna (27 41 33 00-0001)</b>		
27 41 33 00-0003 EA Amateur Radio Antenna.....	695.80	152.60
27 41 33 00-0004 EA Multi-Band Radio Antenna .....	553.94	152.60
<b>27 41 33 00-0005 Receptacles (27 41 33 00-0001)</b>		
27 41 33 00-0006 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter .....	171.12	62.36
27 41 33 00-0007 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	171.12	62.36

## 27 50 Distributed Communications And Monitoring Systems (27)

### 27 51 Distributed Audio-Video Communications Systems (27 50)

#### 27 51 17 Video Intercom And Exterior Gate Control System (27 51)

##### 27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)

27 51 17 00-0002 EA Audio Video Master Control Station (Aiphone AX-8MV) .....	959.76	127.34
27 51 17 00-0003 EA 16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	414.22	127.34
27 51 17 00-0004 EA Central Exchange Unit (Aiphone AX-084C) .....	1,124.71	63.67
27 51 17 00-0005 EA Central Exchange Unit (Aiphone AX-248C) .....	1,529.68	63.67
27 51 17 00-0006 EA Touch Tone Programmable Dialer (Viking K-1900-5) .....	121.82	25.47
27 51 17 00-0007 EA Surface Mount Audio/Video Door Station (Aiphone AX-DV) .....	362.20	25.47
27 51 17 00-0008 EA Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	407.94	25.47
27 51 17 00-0009 EA 12 Volt, 2.5 Amp, DC Power Supply (Aiphone PS-1225UL) .....	111.37	12.73
Note: UL Listed		
27 51 17 00-0010 EA 24 Volt, 2 Amp, DC Power Supply (Aiphone PS-2420UL) .....	121.42	12.73
Note: UL Listed		
27 51 17 00-0011 EA IP Video Master Station (Aiphone IX-MV) .....	1,211.89	127.34
27 51 17 00-0012 EA Handset Only For IX-MV (Aiphone 285999).....	51.67	5.10
27 51 17 00-0013 EA Hands Free Sub Master Video Monitor (Aiphone JF-2HD) .....	625.07	127.34
27 51 17 00-0014 EA Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P) .....	544.37	25.47
27 51 17 00-0015 EA Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF) .....	178.13	25.47
27 51 17 00-0016 EA Stainless Steel Surface Mount Box, IS-DVF, IS-IPDVF And IS-SS Compatible (Aiphone SBX-ISDVF) .....	192.97	25.47
27 51 17 00-0017 EA Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	198.20	25.47
27 51 17 00-0018 EA Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	235.94	38.20
27 51 17 00-0019 EA Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880) .....	56.50	12.73

#### 27 51 23 Intercommunications And Program Systems (27 51)

##### 27 51 23 20 Commercial Intercommunications And Program Systems (27 51 23)

##### 27 51 23 20-0001 Intercom (27 51 23 20)

27 51 23 20-0002 EA Aiphone Intercom, Master .....	1,248.85	
27 51 23 20-0003 EA Aiphone Intercom, Remotes.....	464.61	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 51 33</b>				<b>Sound Reinforcement</b> <small>(27 51)</small>		
				Note: Includes testing of new devices and certification.		
<b>27 51 33 00-0001</b>				<b>Amplifiers</b> <small>(27 51 33)</small>		
27 51 33 00-0002	EA			10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	383.48	101.87
27 51 33 00-0003	EA			35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	518.21	101.87
27 51 33 00-0004	EA			60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	604.69	101.87
27 51 33 00-0005	EA			100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	666.39	101.87
27 51 33 00-0006	EA			150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	815.90	101.87
27 51 33 00-0007	EA			250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,039.48	101.87
27 51 33 00-0008	EA			Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK).....	41.84	5.10
<b>27 51 33 00-0009</b>				<b>Splitters</b> <small>(27 51 33)</small>		
27 51 33 00-0010	EA			24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE).....	2,002.79	76.30
27 51 33 00-0011	EA			1-in/11-out Splitter (Doug Fleenor DMX).....	1,810.97	76.30
<b>27 51 33 00-0012</b>				<b>Speakers</b> <small>(27 51 33)</small>		
27 51 33 00-0013	EA			8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W).....	166.43	27.27
27 51 33 00-0014	EA			8" Steel Baffle (Atlas Sound 51-8).....	47.95	5.09
27 51 33 00-0015	EA			T-Bar Support (Atlas Sound EZ95-8).....	52.66	5.09
27 51 33 00-0016	EA			8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408).....	77.87	5.09
27 51 33 00-0017	EA			Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA).....	78.72	9.16
<b>27 51 33 00-0018</b>				<b>Accessories</b> <small>(27 51 33)</small>		
27 51 33 00-0019	EA			Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	196.56	12.73
27 51 33 00-0020	EA			5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	432.43	12.73
27 51 33 00-0021	EA			Weather Proof Horn For Audio/Video System (Bogen SPT5A).....	122.52	25.47
27 51 33 00-0022	EA			Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A).....	214.28	25.47
27 51 33 00-0023	EA			Headset Microphone For Audio/Video System (Audio Technica Pro8Hex).....	160.61	25.44
27 51 33 00-0024	EA			Microphone Jack For Audio/Video System.....	82.32	25.47
27 51 33 00-0025	EA			Terminal Cabinet For Audio/Video System (Atlas 121-18).....	629.85	101.87
27 51 33 00-0026	EA			Volume Control For Audio/Video System (Bogen AT10A).....	79.35	25.47
27 51 33 00-0027	EA			Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	60.12	25.47
<b>27 51 33 00-0028</b>				<b>Remove And Reinstall Speakers</b> <small>(27 51 33)</small>		
				Note: Includes storage, cleaning and supply materials.		
27 51 33 00-0029	EA			Removal And Reinstallation Of Ceiling Mounted Speaker.....	142.43	
<b>27 53</b>				<b>Distributed Systems</b> <small>(27 50)</small>		
<b>27 53 13</b>				<b>Clock Systems</b> <small>(27 53)</small>		
<b>27 53 13 16</b>				<b>Wired Clock Systems</b> <small>(27 53 13)</small>		
<b>27 53 13 16-0001</b>				<b>Wired Self-Corrective Clock Systems</b> <small>(27 53 13 16)</small>		
<b>27 53 13 16-0002</b>				<b>Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0001)</small>		
<b>27 53 13 16-0003</b>				<b>Analog, Wired Self-Corrective Clocks (Telecor)</b> <small>(27 53 13 16-0002)</small>		
<b>27 53 13 16-0004</b>				<b>24 Volt AC, Analog, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0003)</small>		
27 53 13 16-0005	EA			12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	203.10	25.44
				For >50 To 100, Deduct	-13.71	
				For >100, Deduct	-19.79	
27 53 13 16-0006	EA			12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	474.81	25.44
				For >50 To 100, Deduct	-24.57	
				For >100, Deduct	-41.53	
27 53 13 16-0007	EA			16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	253.20	25.44
				For >50 To 100, Deduct	-17.73	
				For >100, Deduct	-25.83	
27 53 13 16-0008	EA			16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	625.12	25.44
				For >50 To 100, Deduct	-65.04	
				For >100, Deduct	-88.01	
<b>27 53 13 16-0009</b>				<b>120 Volt AC, Analog, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0003)</small>		
27 53 13 16-0010	EA			12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	203.10	25.44
				For >50 To 100, Deduct	-13.71	
				For >100, Deduct	-19.79	
27 53 13 16-0011	EA			12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	474.81	25.44
				For >50 To 100, Deduct	-24.57	
				For >100, Deduct	-41.53	
27 53 13 16-0012	EA			16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	253.20	25.44
				For >50 To 100, Deduct	-17.73	
				For >100, Deduct	-25.83	
27 53 13 16-0013	EA			16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	625.12	25.44
				For >50 To 100, Deduct	-65.04	
				For >100, Deduct	-88.01	

<b>27</b>	<b>Communications</b>
<b>27 50</b>	<b>Distributed Communications And Monitoring Systems</b>
<b>27 53</b>	<b>Distributed Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 53 13 16-0014</b> <b>Accessories For Analog Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0003)</small>		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks .....	165.15	12.71
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks .....	44.71	12.71
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks.....	55.80	12.71
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks.....	67.36	12.71
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	103.50	20.35
<b>27 53 13 16-0020</b> <b>Digital, Wired Self-Corrective Clocks (Telecor)</b> <small>(27 53 13 16-0002)</small>		
<b>27 53 13 16-0021</b> <b>24 Volt AC, Digital, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount .....	249.34	25.44
For Surface Mount, Add	39.70	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-19.85	
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount .....	380.38	25.44
For Surface Mount, Add	65.90	
For >50 To 100, Deduct	-19.77	
For >100, Deduct	-32.95	
<b>27 53 13 16-0024</b> <b>120 Volt AC, Digital, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount .....	249.34	25.44
For Surface Mount, Add	39.70	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-19.85	
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount .....	380.38	25.44
For Surface Mount, Add	65.90	
For >50 To 100, Deduct	-19.77	
For >100, Deduct	-32.95	
<b>27 53 13 16-0027</b> <b>Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks</b>		
<small>(27 53 13 16-0020)</small>		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks .....	214.18	25.44
For >50 To 100, Deduct	-9.80	
For >100, Deduct	-16.33	
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks .....	348.59	25.44
For >50 To 100, Deduct	-17.86	
For >100, Deduct	-29.77	
<b>27 53 13 16-0030</b> <b>Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks .....	214.18	25.44
For >50 To 100, Deduct	-9.80	
For >100, Deduct	-16.33	
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks .....	348.59	25.44
For >50 To 100, Deduct	-17.86	
For >100, Deduct	-29.77	
<b>27 53 13 16-0033</b> <b>Accessories For Digital Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks .....	223.92	12.71
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks .....	56.27	12.71
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks .....	76.51	12.71
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	195.98	12.71
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks .....	57.72	12.71
<b>27 53 13 16-0039</b> <b>Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0001)</small>		
<b>27 53 13 16-0040</b> <b>Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0039)</small>		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24) .....	2,330.12	203.47
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120) .....	2,474.65	203.47
<b>27 53 13 16-0043</b> <b>Accessories For Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0039)</small>		
27 53 13 16-0044 EA 5 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405) .....	247.72	50.86
27 53 13 16-0045 EA 10 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406) .....	278.06	50.86
<b>27 53 13 16-0046</b> <b>Other Clock And Program Systems</b> <small>(27 53 13 16)</small>		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512) .....	1,202.65	101.74
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512) .....	1,500.86	203.47
27 53 13 16-0049 EA Program Bell (Lathem 906-6) .....	197.96	50.86
27 53 13 16-0050 EA Combination Clock And Speaker .....	456.19	127.17



<b>Communications</b>	<b>27</b>	<b>27</b>
Distributed Communications And Monitoring Systems	27 50	
Distributed Systems	27 53	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**END OF SECTION 27**

**27 Communications**

27 50 Distributed Communications And Monitoring Systems

27 53 Distributed Systems



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MINOR	DESCRIPTION
CSI	UOM

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TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 28 Electronic Safety And Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

### 28 40 Life Safety <sup>(28)</sup>

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

#### 28 42 Gas Detection and Alarm <sup>(28 40)</sup>

##### 28 42 11 Gas Detection And Alarm Control, GUI, And Logic Systems <sup>(28 42)</sup>

###### 28 42 11 00-0001 Monitoring System For Underground Tanks <sup>(28 42 11)</sup>

###### 28 42 11 00-0002 Continuous Leak Detection System <sup>(28 42 11 00-0001)</sup>

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System .....	4,655.28	417.11
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System .....	6,275.70	556.49
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System .....	8,725.05	596.17
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System .....	9,516.56	834.23
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System .....	6,270.71	71.21
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System .....	5,654.38	63.59
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System .....	7,425.32	71.21
28 42 11 00-0010	EA	Tank Leak Detection Probe .....	2,293.01	15.26
28 42 11 00-0011	EA	Secondary Containment Collar Probe .....	283.34	6.10
28 42 11 00-0012	EA	Interstitial Leak Detection Probe .....	520.58	12.71
28 42 11 00-0013	EA	Liquid Phase Detection .....	1,714.90	38.15
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed .....	1,585.30	38.15
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted .....	1,849.31	43.24
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon .....	2,108.51	43.24

##### 28 42 15 Gas Detection Sensors <sup>(28 42)</sup>

###### 28 42 15 00-0001 Hydrogen Gas Detection <sup>(28 42 15)</sup>

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR) .....	1,178.86	38.20
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB) .....	68.58	12.73
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM) .....	316.60	38.20

#### 28 43 Fuel Oil Detection And Alarm <sup>(28 40)</sup>

See CSI section 28 42 00 00-0000 for detection and alarms.

#### 28 46 Fire Detection And Alarm <sup>(28 40)</sup>

##### 28 46 11 Fire Sensors and Detectors <sup>(28 46)</sup>

###### 28 46 11 11 Linear Heat Detection Sensors <sup>(28 46 11)</sup>

###### 28 46 11 11-0001 Protectowire Fire Alarm <sup>(28 46 11 11)</sup>

###### 28 46 11 11-0002 Linear Heat Detector Cable <sup>(28 46 11 11-0001)</sup>

28 46 11 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC) .....	3.68	
28 46 11 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M) .....	3.96	
28 46 11 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR) .....	3.96	
28 46 11 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M) .....	4.23	
28 46 11 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT) .....	4.90	
28 46 11 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M) .....	5.18	
28 46 11 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL) .....	52.31	
28 46 11 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC) .....	18.77	
28 46 11 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W) .....	7.04	
28 46 11 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2) .....	7.04	
28 46 11 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO) .....	8.10	
28 46 11 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2) .....	12.59	
28 46 11 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P) .....	12.97	
28 46 11 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A) .....	0.98	
28 46 11 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B) .....	1.33	
28 46 11 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C) .....	5.71	

##### 28 46 20 Fire Alarm <sup>(28 46)</sup>

###### 28 46 21 17 Proprietary Systems <sup>(28 46 20)</sup>

###### 28 46 21 17-0001 Edwards Fire Alarm <sup>(28 46 21 17)</sup>

###### 28 46 21 17-0002 EST3 Life Safety And Security Control <sup>(28 46 21 17-0001)</sup>

###### 28 46 21 17-0003 EST3 Network <sup>(28 46 21 17-0002)</sup>



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-0004 Remote Annunciators</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0005 EA Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	979.15	76.40
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0006 EA Six Position Base Annunciator (EST3 3-6ANN).....	806.29	76.40
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0007 EA Ten Position Base Annunciator (EST3 3-10ANN).....	1,007.86	76.40
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0008 EA Annunciator CPU (EST3 3-ANNCPU3).....	658.73	76.40
Note: One Required per graphic annunciator.		
28 46 21 17-0009 EA Annunciator Support Module (EST3 3-ANNSM).....	127.93	25.47
Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 21 17-0010 EA Liquid Crystal Display Module (EST3 3-LCD).....	439.58	76.40
Note: Mounts over 3-CPU(1).		
28 46 21 17-0011 EA Liquid Crystal Display Module (EST3 3-LCDXL).....	674.49	76.40
Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 21 17-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	490.11	76.40
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 21 17-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	548.79	50.94
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 21 17-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	93.61	25.47
Note: Mounts up to three 3-EVDVRA modules.		
28 46 21 17-0015 EA Central Processor Unit Module (EST3 3-CPU3).....	1,151.28	76.40
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0016 EA 120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3).....	992.22	25.47
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
<b>28 46 21 17-0017 Remote Annunciators Cabinets</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B).....	99.75	25.47
28 46 21 17-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S).....	89.56	20.37
28 46 21 17-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	110.58	25.47
28 46 21 17-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	100.39	20.37
28 46 21 17-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	120.74	25.47
28 46 21 17-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	110.55	20.37
<b>28 46 21 17-0024 Audio And Telephone Masters</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	3,104.38	101.87
28 46 21 17-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	1,755.29	101.87
28 46 21 17-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,915.49	101.87
28 46 21 17-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	1,662.53	101.87
28 46 21 17-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	1,890.15	101.87
28 46 21 17-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,902.83	50.94
<b>28 46 21 17-0031 Battery Distribution Unit</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	396.01	294.13
<b>28 46 21 17-0033 Remote Booster Power Supply</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0034 EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A).....	574.45	76.40
28 46 21 17-0035 EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	649.47	76.40
28 46 21 17-0036 EA 10 Amp, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	704.75	76.40
28 46 21 17-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	101.57	25.47
<b>28 46 21 17-0038 Batteries And Battery Cabinets</b> <small>(28 46 21 17-0003)</small>		
28 46 21 17-0039 EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	80.96	25.47
28 46 21 17-0040 EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	97.26	25.47
28 46 21 17-0041 EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	209.71	25.47
28 46 21 17-0042 EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	103.79	25.47
28 46 21 17-0043 EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	261.91	25.47
28 46 21 17-0044 EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)).....	153.85	25.47
28 46 21 17-0045 EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	516.23	25.47
28 46 21 17-0046 EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	157.21	25.47
28 46 21 17-0047 EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	618.49	25.47
28 46 21 17-0048 EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	94.08	25.47
28 46 21 17-0049 EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	85.94	25.47
28 46 21 17-0050 EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1).....	283.70	50.94
Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.		
28 46 21 17-0051 EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2).....	239.80	50.94
Note: Holds up to two 12V17A batteries.		
28 46 21 17-0052 EA Remote Closet Enclosure (EST3 3-RCC7R).....	777.19	101.87
28 46 21 17-0053 EA Remote Closet Enclosure (EST3 3-RCC14R).....	950.01	101.87
28 46 21 17-0054 EA Remote Closet Enclosure (EST3 3-RCC21R).....	1,308.37	101.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0055				<b>Serial Printer</b> (28 46 21 17-0003)		
28 46 21 17-0056	EA			System Printer - Desk Top Style (EST3 PT-1S).....	994.95	25.47
28 46 21 17-0057				<b>Intelligent Analog Initiating Devices</b> (28 46 21 17-0002)		
28 46 21 17-0058				<b>Detectors, Signature</b> (28 46 21 17-0057)		
28 46 21 17-0059	EA			Intelligent 4D Multisensor Detector - Ionization, Photoelectric, Heat (EST3 SIGA-IPHS) .....	174.70	38.20
28 46 21 17-0060	EA			Intelligent 4D Multisensor Detector, Black - Ionization, Photoelectric, Heat (EST3 SIGA-IPHSB) .....	193.68	38.20
28 46 21 17-0061	EA			Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA-PHS).....	169.05	38.20
28 46 21 17-0062	EA			Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS).....	152.10	38.20
28 46 21 17-0063	EA			Intelligent Ionization Smoke Detector (EST3 SIGA-IS) .....	157.75	38.20
28 46 21 17-0064	EA			Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA-HRS).....	133.19	38.20
28 46 21 17-0065	EA			Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA-HFS) .....	133.19	38.20
28 46 21 17-0066	EA			Passive Infrared Motion Detector (EST3 SIGA-MD) .....	198.72	38.20
28 46 21 17-0067	EA			Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS).....	217.24	38.20
28 46 21 17-0068	EA			Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS).....	186.70	38.20
28 46 21 17-0069	EA			Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS) .....	260.28	38.20
28 46 21 17-0070	EA			Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA2-HFS) .....	159.25	38.20
28 46 21 17-0071	EA			Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA2-HRS) .....	159.25	38.20
28 46 21 17-0072	EA			Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA2-PHS).....	211.42	38.20
28 46 21 17-0073				<b>Detectors, Duct Housings and Accessories, Signature</b> (28 46 21 17-0057)		
28 46 21 17-0074	EA			Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD) .....	345.75	63.67
28 46 21 17-0075	EA			Superduct, Test Magnet Kit (EST3 SD-MAG) .....	17.74	
28 46 21 17-0076	EA			Superduct, 120" Air Sample Tube (EST3 SD-T120) .....	49.37	15.28
28 46 21 17-0077	EA			Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK) .....	92.42	20.37
28 46 21 17-0078	EA			Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS) .....	121.12	20.37
28 46 21 17-0079	EA			High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL) .....	59.71	20.37
28 46 21 17-0080				<b>Detectors, Smoke, Beam</b> (28 46 21 17-0057)		
28 46 21 17-0081	EA			Firearay 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A).....	112.26	
28 46 21 17-0082	EA			Firearay 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01).....	1,308.71	38.20
28 46 21 17-0083	EA			Firearay 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00).....	83.70	12.73
28 46 21 17-0084	EA			Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01).....	98.22	12.73
28 46 21 17-0085	EA			160 - 330' Reflective Beam Detector (EST3 EC-100R).....	1,337.01	38.20
28 46 21 17-0086	EA			15 - 160' Reflective Beam Detector (EST3 EC-50R).....	1,143.07	38.20
28 46 21 17-0087	EA			Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT).....	267.95	12.73
28 46 21 17-0088	EA			160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R).....	1,408.50	38.20
28 46 21 17-0089				<b>Modules, Signature</b> (28 46 21 17-0057)		
28 46 21 17-0090	EA			Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB) .....	158.68	25.47
28 46 21 17-0091	EA			Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	108.40	25.47
28 46 21 17-0092	EA			Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2).....	148.47	25.47
28 46 21 17-0093	EA			Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	143.55	25.47
28 46 21 17-0094	EA			Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1) .....	163.59	25.47
28 46 21 17-0095	EA			Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	171.91	25.47
28 46 21 17-0096	EA			Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR) .....	129.57	25.47
28 46 21 17-0097	EA			Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
28 46 21 17-0097	EA			Control Relay UIO (Plug In) Module (EST3 SIGA-MCR).....	126.64	25.47
28 46 21 17-0098	EA			Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S) .....	164.42	25.47
28 46 21 17-0099	EA			Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO) .....	160.63	25.47
28 46 21 17-0100	EA			Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO) .....	154.98	25.47
28 46 21 17-0101	EA			Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM) .....	143.26	117.79
28 46 21 17-0102	EA			Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1) .....	108.62	25.47
28 46 21 17-0102				Note: Factory programmed for non-latching monitor operation.		
28 46 21 17-0103	EA			Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	165.15	25.47
28 46 21 17-0104				<b>Module Accessories, Signature</b> (28 46 21 17-0057)		
28 46 21 17-0105	EA			Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 21 17-0105	EA			Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4) .....	44.46	12.73
28 46 21 17-0106	EA			Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	141.72	25.47
28 46 21 17-0107	EA			Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P).....	18.11	7.64
28 46 21 17-0108	EA			Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1).....	51.00	12.73

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0109 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2).....	46.30	12.73
28 46 21 17-0110 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L).....	48.16	12.73
<b>28 46 21 17-0111 Single Action Pull Stations, Signature (28 46 21 17-0057)</b>		
28 46 21 17-0112 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	187.00	52.98
28 46 21 17-0113 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	215.35	52.98
28 46 21 17-0114 EA GA Key - For Pre Signal Station (EST3 276-K2).....	24.59	19.50
28 46 21 17-0115 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR).....	30.05	24.96
28 46 21 17-0116 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB).....	53.00	32.62
<b>28 46 21 17-0117 Double Action Pull Stations, Signature (28 46 21 17-0057)</b>		
28 46 21 17-0118 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278).....	191.84	52.98
28 46 21 17-0119 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR).....	30.46	5.10
<b>28 46 21 17-0120 Detector Bases and Accessories, Signature (28 46 21 17-0057)</b>		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 21 17-0121 EA Audible (Sounder) Base (EST3 SIGA-AB4G).....	86.40	12.73
28 46 21 17-0122 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB).....	36.87	12.73
28 46 21 17-0123 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4).....	106.08	12.73
28 46 21 17-0124 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	63.35	12.73
28 46 21 17-0125 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DG-SB).....	72.80	12.73
28 46 21 17-0126 EA Detector Mounting Plate (EST3 SIGA-DMP).....	110.60	12.73
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
28 46 21 17-0127 EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED).....	44.46	12.73
28 46 21 17-0128 EA Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS).....	18.19	7.64
28 46 21 17-0129 EA Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4).....	18.19	7.64
28 46 21 17-0130 EA Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF).....	43.71	7.64
28 46 21 17-0131 EA Detector Base With Isolator (EST3 SIGA-IB).....	71.84	12.73
28 46 21 17-0132 EA Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	75.89	12.73
28 46 21 17-0133 EA Detector Base With Form 'C' Relay (EST3 SIGA-RB).....	64.79	12.73
28 46 21 17-0134 EA Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4).....	64.78	12.73
28 46 21 17-0135 EA Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4).....	38.32	12.73
<b>28 46 21 17-0136 Controllers, Signature (28 46 21 17-0057)</b>		
28 46 21 17-0137 EA Signature Dual Driver Controller (EST3 3-SDDC1).....	2,230.26	76.40
28 46 21 17-0138 EA Single Signature Loop Controller (EST3 3-SSDC1).....	1,297.64	76.40
28 46 21 17-0139 EA Signature Loop Controller (EST3 3-SDC1).....	1,170.34	76.40
28 46 21 17-0140 EA Analog Addressable Loop Controller (EST3 3-AADC1).....	1,848.69	76.40
<b>28 46 21 17-0141 Relays And Accessories (28 46 21 17-0057)</b>		
28 46 21 17-0142 EA Multi Voltage Relay (EST3 MR101).....	131.02	25.47
28 46 21 17-0143 EA Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	42.06	12.73
<b>28 46 21 17-0144 Notification Appliances (28 46 21 17-0002)</b>		
<b>28 46 21 17-0145 Wall Strobes, Horns And Chimes (28 46 21 17-0144)</b>		
28 46 21 17-0146 EA Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	116.81	38.20
28 46 21 17-0147 EA Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	116.81	38.20
28 46 21 17-0148 EA Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	129.97	38.20
28 46 21 17-0149 EA Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD).....	101.98	38.20
28 46 21 17-0150 EA Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD).....	101.98	38.20
28 46 21 17-0151 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD).....	101.98	38.20
28 46 21 17-0152 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD).....	101.98	38.20
28 46 21 17-0153 EA Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P).....	89.52	38.20
28 46 21 17-0154 EA Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	89.52	38.20
28 46 21 17-0155 EA Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	89.52	38.20
28 46 21 17-0156 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	183.69	38.20
28 46 21 17-0157 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	183.69	38.20
28 46 21 17-0158 EA Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C).....	128.37	38.20
28 46 21 17-0159 EA Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	128.37	38.20
28 46 21 17-0160 EA Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575).....	116.81	38.20
28 46 21 17-0161 EA Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM).....	116.81	38.20
28 46 21 17-0162 EA Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	116.81	38.20
28 46 21 17-0163 EA Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575).....	116.81	38.20
28 46 21 17-0164 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM).....	120.51	38.20
28 46 21 17-0165 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM).....	120.51	38.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0166 EA Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH).....	129.16	38.20
28 46 21 17-0167 EA Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM).....	120.51	38.20
28 46 21 17-0168 EA Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	120.51	38.20
28 46 21 17-0169 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE).....	81.42	38.20
28 46 21 17-0170 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE).....	81.42	38.20
<b>28 46 21 17-0171 Wall Speakers And Speaker Strobes (28 46 21 17-0144)</b>		
28 46 21 17-0172 EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2).....	100.86	38.20
28 46 21 17-0173 EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM).....	142.61	38.20
28 46 21 17-0174 EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7).....	100.86	38.20
28 46 21 17-0175 EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM).....	142.61	38.20
28 46 21 17-0176 EA Surface Box, White, For Genesis Speaker (EST3 G4B).....	50.92	20.37
28 46 21 17-0177 EA Surface Box, Red, For Genesis Speaker (EST3 G4RB).....	50.92	20.37
<b>28 46 21 17-0178 Ceiling Speakers And Speaker Strobes (28 46 21 17-0144)</b>		
28 46 21 17-0179 EA Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	116.00	38.20
28 46 21 17-0180 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM).....	142.61	38.20
28 46 21 17-0181 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	151.03	38.20
<b>28 46 21 17-0182 Harsh Environment Signals (28 46 21 17-0144)</b>		
28 46 21 17-0183 EA Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T).....	105.64	38.20
28 46 21 17-0184 EA 15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	138.87	38.20
28 46 21 17-0185 EA 110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	138.87	38.20
28 46 21 17-0186 EA 15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	128.99	38.20
28 46 21 17-0187 EA 15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	122.42	38.20
28 46 21 17-0188 EA 30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	128.99	38.20
28 46 21 17-0189 EA 60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	128.99	38.20
28 46 21 17-0190 EA 110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	128.99	38.20
28 46 21 17-0191 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	143.26	43.30
28 46 21 17-0192 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	143.26	43.30
28 46 21 17-0193 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	109.68	38.20
28 46 21 17-0194 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	135.77	38.20
<b>28 46 21 17-0195 Fire Alarm Bells (28 46 21 17-0144)</b>		
28 46 21 17-0196 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	148.09	38.20
28 46 21 17-0197 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	123.27	38.20
28 46 21 17-0198 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	133.86	38.20
<b>28 46 21 17-0199 Multiple Tone Signal (28 46 21 17-0144)</b>		
28 46 21 17-0200 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	820.98	782.78
<b>28 46 21 17-0201 Multi-Purpose Loudspeaker (28 46 21 17-0144)</b>		
28 46 21 17-0202 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	187.66	38.20
28 46 21 17-0203 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	187.66	38.20
<b>28 46 21 17-0204 Bell/Strobe Plate (28 46 21 17-0144)</b>		
28 46 21 17-0205 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	95.59	20.37
<b>28 46 21 17-0206 Mounting Accessories (28 46 21 17-0144)</b>		
28 46 21 17-0207 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	51.69	20.37
28 46 21 17-0208 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	51.69	20.37
28 46 21 17-0209 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	51.69	20.37
28 46 21 17-0210 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	51.69	20.37
28 46 21 17-0211 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	51.69	20.37
<b>28 46 21 17-0212 Firefighters' Telephones (28 46 21 17-0144)</b>		
28 46 21 17-0213 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	753.64	63.67
28 46 21 17-0214 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	440.50	63.67
28 46 21 17-0215 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	327.73	63.67
28 46 21 17-0216 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	249.11	63.67
28 46 21 17-0217 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	426.46	63.67
28 46 21 17-0218 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	277.17	63.67
28 46 21 17-0219 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	476.16	63.67
28 46 21 17-0220 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	286.52	63.67
28 46 21 17-0221 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	539.80	63.67
28 46 21 17-0222 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	66.99	20.37
28 46 21 17-0223 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	75.13	20.37
28 46 21 17-0224 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	91.17	



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0225	EA		Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	91.17	
28 46 21 17-0226	EA		Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1) .....	148.64	25.47
28 46 21 17-0227	EA		Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2).....	181.04	25.47
28 46 21 17-0228	EA		Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	132.44	25.47
28 46 21 17-0229	EA		Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4) .....	127.67	25.47
28 46 21 17-0230	EA		Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	106.01	38.20
28 46 21 17-0231	EA		Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	769.08	50.94
<b>28 46 21 17-0232</b>			<b>Mass Notification EC Appliances</b> (28 46 21 17-0144)		
28 46 21 17-0233	EA		G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	120.54	38.20
28 46 21 17-0234	EA		G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	117.17	38.20
28 46 21 17-0235	EA		G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA) .....	120.54	38.20
28 46 21 17-0236	EA		G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC) .....	117.17	38.20
28 46 21 17-0237	EA		G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT) .....	19.30	7.64
<b>28 46 21 17-0238</b>			<b>Hazardous Location Devices</b> (28 46 21 17-0002)		
<b>28 46 21 17-0239</b>			<b>Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location</b> (28 46 21 17-0238)		
28 46 21 17-0240	EA		Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	109.81	38.20
28 46 21 17-0241	EA		Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	109.81	38.20
28 46 21 17-0242	EA		Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	112.61	38.20
28 46 21 17-0243	EA		Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	112.61	38.20
28 46 21 17-0244	EA		Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	146.04	38.20
28 46 21 17-0245	EA		Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	146.04	38.20
28 46 21 17-0246	EA		Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	112.61	38.20
28 46 21 17-0247	EA		Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	112.61	38.20
<b>28 46 21 17-0248</b>			<b>Hazardous Locations Fire Alarm Station</b> (28 46 21 17-0238)		
28 46 21 17-0249	EA		Hazardous Location Fire Alarm Station (EST3 XAL53).....	796.10	63.67
28 46 21 17-0250	EA		Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE).....	759.77	63.67
<b>28 46 21 17-0251</b>			<b>Hazardous Location Strobes</b> (28 46 21 17-0238)		
28 46 21 17-0252	EA		Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	1,148.59	38.20
28 46 21 17-0253	EA		Wall Bracket Mounting Elbow (EST3 116EX-B).....	217.81	12.73
28 46 21 17-0254	EA		Ceiling / Wall Mounting Module (EST3 116EX-C).....	284.10	15.28
28 46 21 17-0255	EA		Pendant Mounting Module (EST3 116EX-P).....	210.98	15.28
<b>28 46 21 17-0256</b>			<b>Hazardous Location Bells</b> (28 46 21 17-0238)		
28 46 21 17-0257	EA		6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW) .....	835.37	38.20
28 46 21 17-0258	EA		8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW) .....	856.41	38.20
28 46 21 17-0259	EA		10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW) .....	863.98	38.20
<b>28 46 21 17-0260</b>			<b>Hazardous Location Horns</b> (28 46 21 17-0238)		
28 46 21 17-0261	EA		Hazardous Location Horns (EST3 888D-N5).....	817.25	38.20
28 46 21 17-0262	EA		Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	671.70	38.20
<b>28 46 21 17-0263</b>			<b>Door Holders And Relays</b> (28 46 21 17-0002)		
<b>28 46 21 17-0264</b>			<b>Electromagnetic Door Holders</b> (28 46 21 17-0263)		
28 46 21 17-0265	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5) .....	165.42	38.20
28 46 21 17-0266	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	207.63	38.20
28 46 21 17-0267	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5).....	143.86	38.20
28 46 21 17-0268	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5).....	143.86	38.20
28 46 21 17-0269	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	145.81	38.20
28 46 21 17-0270	EA		24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	147.67	38.20
<b>28 46 21 17-0271</b>			<b>Control Relays, Multi-Voltage</b> (28 46 21 17-0263)		
28 46 21 17-0272	EA		Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	33.39	7.64
<b>28 46 21 17-0273</b>			<b>FireShield Plus</b> (28 46 21 17-0002)		
<b>28 46 21 17-0274</b>			<b>3 Zone System</b> (28 46 21 17-0273)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0275 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R) .....	956.08	305.62
28 46 21 17-0276 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD) .....	1,370.08	407.49
28 46 21 17-0277 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G) .....	956.08	305.62
28 46 21 17-0278 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD) .....	1,370.08	407.49
28 46 21 17-0279 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G) .....	61.84	12.73
28 46 21 17-0280 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R) .....	61.84	12.73
<b>28 46 21 17-0281 5 Zone System</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0282 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R) .....	1,014.95	305.62
28 46 21 17-0283 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD) .....	1,425.59	407.49
28 46 21 17-0284 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G) .....	1,014.95	305.62
28 46 21 17-0285 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD) .....	1,425.59	407.49
28 46 21 17-0286 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G) .....	61.84	12.73
28 46 21 17-0287 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R) .....	61.84	12.73
<b>28 46 21 17-0288 10 Zone System</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0289 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R) .....	1,445.78	407.49
28 46 21 17-0290 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD) .....	1,859.79	509.36
28 46 21 17-0291 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G) .....	1,420.54	407.49
28 46 21 17-0292 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD) .....	1,859.79	509.36
28 46 21 17-0293 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G) .....	70.95	12.73
28 46 21 17-0294 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120) .....	131.04	25.47
<b>28 46 21 17-0295 FireShield Plus Off Premise Communication Options</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0296 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT) .....	269.62	25.47
<b>28 46 21 17-0297 FireShield Plus Remote LED Annunciators</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0298 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI) .....	130.98	38.20
28 46 21 17-0299 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A) .....	130.98	38.20
28 46 21 17-0300 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA) .....	135.27	38.20
28 46 21 17-0301 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2) .....	26.22	7.64
28 46 21 17-0302 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3) .....	31.71	7.64
28 46 21 17-0303 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4) .....	44.90	7.64
<b>28 46 21 17-0304 FireShield Plus Remote 10 Zone LED Annunciators</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0305 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10) .....	362.36	38.20
28 46 21 17-0306 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C) .....	396.00	38.20
28 46 21 17-0307 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1) .....	135.05	25.47
<b>28 46 21 17-0308 FireShield Plus Remote Relays And Interfaces</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0309 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24) .....	141.91	25.47
28 46 21 17-0310 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11) .....	61.55	15.28
28 46 21 17-0311 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM) .....	217.47	25.47
<b>28 46 21 17-0312 FireShield Plus Accessories</b> <small>(28 46 21 17-0273)</small>		
28 46 21 17-0313 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1) .....	14.07	
28 46 21 17-0314 EA 4.7k UL End Of Line Resistor With Fireshield Panels (EST3 EOL47PK7) .....	9.47	

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

28 46 21 17-0315		<b>iO Series Fire Control Panels</b> <small>(28 46 21 17-0002)</small>		
28 46 21 17-0316		<b>Intelligent Analog Control Panels</b> <small>(28 46 21 17-0315)</small>		
28 46 21 17-0317	EA	FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G) .....	2,925.61	509.36
28 46 21 17-0318	EA	FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD).....	3,088.78	509.36
28 46 21 17-0319	EA	FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G).....	2,336.45	407.49
28 46 21 17-0320	EA	FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD).....	2,412.15	407.49
28 46 21 17-0321		<b>Option Modules And Accessories For iO Series</b> <small>(28 46 21 17-0315)</small>		
28 46 21 17-0322	EA	16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1) .....	244.61	38.20
28 46 21 17-0323	EA	16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2) .....	160.51	38.20
28 46 21 17-0324	EA	Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232).....	160.51	38.20
28 46 21 17-0325	EA	Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA).....	135.05	25.47
28 46 21 17-0326	EA	Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT) .....	259.43	20.37
28 46 21 17-0327	EA	Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH) .....	461.28	20.37
28 46 21 17-0328	EA	Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1).....	60.79	12.73
28 46 21 17-0329	EA	Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2) .....	69.21	12.73
28 46 21 17-0330	EA	Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250) .....	858.83	50.94
28 46 21 17-0331		<b>Remote Annunciators For iO Series</b> <small>(28 46 21 17-0315)</small>		
28 46 21 17-0332	EA	Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD) .....	475.90	38.20
28 46 21 17-0333	EA	Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C) .....	496.93	38.20
28 46 21 17-0334		<b>Remote Annunciator Accessories</b> <small>(28 46 21 17-0315)</small>		
28 46 21 17-0335	EA	24 Expander Cable Assembly, With Cable And Hardware (EST3 730073) .....	59.11	12.73
28 46 21 17-0336	EA	12 Expander Cable (Cable Only) (EST3 7120313-01) .....	42.29	12.73
28 46 21 17-0337	EA	24 Expander Cable (Cable Only) (EST3 7120313-02).....	54.90	12.73
28 46 21 17-0338	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1) .....	160.51	38.20
28 46 21 17-0339	EA	Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2) .....	181.53	38.20
28 46 21 17-0340	EA	Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3) .....	202.56	38.20
28 46 21 17-0341	EA	Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC) .....	42.29	12.73
28 46 21 17-0342	EA	Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC) .....	42.29	12.73
28 46 21 17-0343	EA	Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	79.04	12.73
28 46 21 17-0344		<b>System Accessories</b> <small>(28 46 21 17-0315)</small>		
28 46 21 17-0345	EA	Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	283.70	50.94
28 46 21 17-0346	EA	Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A) .....	1,388.92	407.49
28 46 21 17-0347		<b>Conventional Initiating Devices</b> <small>(28 46 21 17-0002)</small>		
28 46 21 17-0348		<b>Detectors, Heat, Double Pole</b> <small>(28 46 21 17-0347)</small>		
		Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 17-0349	EA	Heat Detector, 135 Degree F Fixed Temperature (CF135-2).....	121.72	38.20
28 46 21 17-0350	EA	Heat Detector, 200 Degree F Fixed Temperature (CF200-2).....	121.72	38.20
28 46 21 17-0351	EA	Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2) .....	121.72	38.20
28 46 21 17-0352	EA	Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2) .....	121.72	38.20
28 46 21 17-0353		<b>Detectors, Rate Compensation Heat, Accessories</b> <small>(28 46 21 17-0347)</small>		
28 46 21 17-0354	EA	Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P).....	82.75	38.20
28 46 21 17-0355	EA	Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11).....	178.24	20.37
28 46 21 17-0356	EA	4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27) .....	67.33	25.47
28 46 21 17-0357		<b>Detectors, Heat, Fire-Lite</b> <small>(28 46 21 17-0347)</small>		
		Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0358 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135).....	115.29	38.20
28 46 21 17-0359 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194).....	115.29	38.20
<b>28 46 21 17-0360 Audio Notification Systems (Standalone Voice Evacuation) (28 46 21 17-0002)</b>		
<b>28 46 21 17-0361 Audio Notification Panels (28 46 21 17-0360)</b>		
28 46 21 17-0362 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG).....	3,516.69	509.36
28 46 21 17-0363 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR).....	3,516.69	509.36
28 46 21 17-0364 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG).....	2,700.85	509.36
28 46 21 17-0365 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR).....	2,700.85	509.36
28 46 21 17-0366 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG).....	3,104.57	509.36
28 46 21 17-0367 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR).....	3,104.57	509.36
<b>28 46 21 17-0368 Audio Notification Expander Panels (28 46 21 17-0360)</b>		
28 46 21 17-0369 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG).....	2,768.14	509.36
28 46 21 17-0370 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR).....	2,768.14	509.36
28 46 21 17-0371 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG).....	1,977.54	509.36
28 46 21 17-0372 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR).....	1,977.54	509.36
28 46 21 17-0373 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG).....	2,440.13	509.36
28 46 21 17-0374 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	2,440.13	509.36
<b>28 46 21 17-0375 Audio Notification Output Accessories (28 46 21 17-0360)</b>		
28 46 21 17-0376 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B).....	101.17	12.73
28 46 21 17-0377 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	429.42	25.47
28 46 21 17-0378 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B).....	429.42	25.47
28 46 21 17-0379 EA Class A Converter (GE ANSZC4A).....	311.67	25.47
<b>28 46 21 17-0380 Audio Notification Remote Microphone (28 46 21 17-0360)</b>		
28 46 21 17-0381 EA Microphone (GE ANSMIKE).....	126.64	25.47
28 46 21 17-0382 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	471.47	25.47
28 46 21 17-0383 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	471.47	25.47
28 46 21 17-0384 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	109.58	12.73
28 46 21 17-0385 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR).....	63.31	12.73
<b>28 46 21 17-0386 Audio Notification Accessories (28 46 21 17-0360)</b>		
28 46 21 17-0387 EA Audio Matching - Line Input/Output Card (GE ANSAUX).....	202.33	25.47
28 46 21 17-0388 EA Class B Backup Amplifier Switching Module (GE ANSBKUP).....	202.33	25.47
28 46 21 17-0389 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	202.33	25.47
28 46 21 17-0390 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRSI8).....	429.42	25.47
<b>28 46 21 17-0391 Audio Notification Modules, Without Cabinet And Transformer (28 46 21 17-0360)</b>		
28 46 21 17-0392 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A).....	1,540.09	50.94
28 46 21 17-0393 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	1,615.78	50.94
28 46 21 17-0394 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD).....	2,221.35	50.94
28 46 21 17-0395 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A).....	858.83	50.94
28 46 21 17-0396 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM).....	858.83	50.94
28 46 21 17-0397 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	1,540.09	50.94
28 46 21 17-0398 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A).....	1,237.30	50.94

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0399 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM).....	1,313.00	50.94
Note: Excludes cabinet.		
28 46 21 17-0400 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	1,918.57	50.94
Note: Excludes cabinet.		
28 46 21 17-0401 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	101.17	12.73
28 46 21 17-0402 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	76.81	12.73
<b>28 46 21 17-0403 Simplex Fire Alarm</b> (28 46 21 17)		
<b>28 46 21 17-0404 4100 Fire Alarm Control Panel</b> (28 46 21 17-0403)		
28 46 21 17-0405 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACs, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111).....	4,585.35	508.68
28 46 21 17-0406 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141).....	4,950.73	508.68
28 46 21 17-0407 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142).....	6,864.38	508.68
28 46 21 17-0408 EA IDNet Module, Up To 127 Points (Simplex 4100-3104).....	3,149.50	508.68
Note: Add-on module.		
28 46 21 17-0409 EA IDNet Module, Up To 64 Points (Simplex 4100-3105).....	2,592.28	508.68
Note: Add-on module.		
28 46 21 17-0410 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101).....	1,347.82	127.17
Note: Add-on module.		
28 46 21 17-0411 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033).....	281.27	25.44
Note: Add-on module.		
28 46 21 17-0412 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	779.86	25.44
Note: Add-on module.		
<b>28 46 21 17-0413 4100U Backbox</b> (28 46 21 17-0403)		
28 46 21 17-0414 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425).....	1,385.71	101.74
Note: 24" x 40" beige backbox.		
28 46 21 17-0415 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443).....	1,927.82	101.74
Note: 24" x 56" beige backbox.		
<b>28 46 21 17-0416 DACT (Digital Alarm Communicator Transmitter)</b> (28 46 21 17-0403)		
28 46 21 17-0417 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104).....	755.95	50.86
<b>28 46 21 17-0418 4010 Fire Alarm Control Panel</b> (28 46 21 17-0403)		
28 46 21 17-0419 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101).....	4,361.37	508.68
28 46 21 17-0420 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201).....	4,250.22	508.68
28 46 21 17-0421 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806).....	151.75	25.44
28 46 21 17-0422 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811).....	610.67	25.44
28 46 21 17-0423 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812).....	834.20	25.44
28 46 21 17-0424 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813).....	435.61	25.44
28 46 21 17-0425 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823).....	470.22	25.44
28 46 21 17-0426 EA Battery Meter Module Expansion Module (Simplex 4010-9820).....	185.37	25.44
<b>28 46 21 17-0427 Printer</b> (28 46 21 17-0403)		
28 46 21 17-0428 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013).....	1,334.77	25.44
<b>28 46 21 17-0429 NAC Panel / Power Booster</b> (28 46 21 17-0403)		
28 46 21 17-0430 EA IDNet NAC Extender With 4, Class B (Style Y) NACs and 8 Amp Power Supply, 120 Volt AC (Simplex 4009-9201).....	925.67	127.17
Note: Power supply for horns and strobes.		
<b>28 46 21 17-0431 Battery</b> (28 46 21 17-0403)		
28 46 21 17-0432 EA 50 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9296).....	548.31	25.44
Note: Two required for 24 volt DC.		
28 46 21 17-0433 EA 33 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9276).....	369.05	25.44
Note: Two required for 24 volt DC.		
28 46 21 17-0434 EA 6.2 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9272).....	141.99	25.44
Note: Two required for 24 volt DC.		
<b>28 46 21 17-0435 Interface Modules</b> (28 46 21 17-0403)		
28 46 21 17-0436 EA Supervised Individual Addressable Modules (Simplex 4090-9001).....	117.35	25.44
Note: Monitor modules for waterflow/tamper, etc.		
28 46 21 17-0437 EA Relay Individual Addressable Modules (Simplex 4090-9002).....	228.01	25.44
Note: Control modules for gas shutdown, door holders, etc.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0438 EA Relay SPDT With LED MR-801/T (Simplex 2088-9032).....	65.22	25.44
Note: Interface relay for 120VAC		
28 46 21 17-0439 EA SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815).....	118.57	25.44
28 46 21 17-0440 EA Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817).....	53.55	12.71
28 46 21 17-0441 EA Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818).....	51.21	12.71
<b>28 46 21 17-0442 Pull Stations</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0443 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001).....	141.09	25.44
28 46 21 17-0444 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101).....	104.75	25.44
28 46 21 17-0445 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102).....	111.77	25.44
28 46 21 17-0446 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103).....	101.59	25.44
28 46 21 17-0447 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	116.47	25.44
28 46 21 17-0448 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	169.93	25.44
28 46 21 17-0449 EA Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	144.58	25.44
28 46 21 17-0450 EA Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	168.00	25.44
28 46 21 17-0451 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	85.23	25.44
28 46 21 17-0452 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	89.51	25.44
28 46 21 17-0453 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	103.32	25.44
28 46 21 17-0454 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	153.51	25.44
28 46 21 17-0455 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	256.14	25.44
28 46 21 17-0456 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	93.04	25.44
28 46 21 17-0457 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	55.90	12.71
<b>28 46 21 17-0458 Weatherproof Pull Stations</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0459 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	140.71	30.52
28 46 21 17-0460 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	87.03	12.71
<b>28 46 21 17-0461 Heat / Smoke Sensor</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0462 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	145.32	38.15
28 46 21 17-0463 EA Photoelectric Smoke Sensor (Simplex 4098-9714).....	202.83	38.15
28 46 21 17-0464 EA Sensor Base With Relay Driver (Simplex 4098-9791).....	363.95	12.71
28 46 21 17-0465 EA Standard Sensor Base (Simplex 4098-9792).....	188.14	12.71
28 46 21 17-0466 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737).....	117.78	25.44
Note: Relay for 4098-9791		
<b>28 46 21 17-0467 Explosion Proof Heat Detector</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0468 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	152.67	38.15
28 46 21 17-0469 EA Explosion Proof Backbox (Killark JLX-21).....	93.40	12.71
28 46 21 17-0470 EA Explosion Proof Backbox Plugs (Killark CUP-2).....	9.24	2.54
<b>28 46 21 17-0471 Weatherproof Heat Detector</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0472 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	115.72	38.15
<b>28 46 21 17-0473 200 Degree F Heat Detector</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0474 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604).....	99.20	38.15
Note: Used in kiln rooms and kitchens.		
<b>28 46 21 17-0475 Duct Smoke Sensor</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0476 EA Duct Sensor Housing (Simplex 4098-9755).....	299.39	20.35
28 46 21 17-0477 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756).....	413.11	45.78
Note: Relay output for AHU shutdown.		
28 46 21 17-0478 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798).....	49.88	12.71
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 21 17-0479 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806).....	122.69	38.15
<b>28 46 21 17-0480 Interior Horn</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0481 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	115.00	38.15
28 46 21 17-0482 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	115.00	38.15
<b>28 46 21 17-0483 Interior Horn Strobe</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0484 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426).....	151.55	38.15
28 46 21 17-0485 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427).....	151.55	38.15
28 46 21 17-0486 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	143.21	38.15
28 46 21 17-0487 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	143.21	38.15



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0488 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	143.21	38.15
28 46 21 17-0489 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	143.21	38.15
28 46 21 17-0490 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	146.01	38.15
28 46 21 17-0491 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	146.01	38.15
28 46 21 17-0492 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	150.92	38.15
28 46 21 17-0493 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	148.66	38.15
28 46 21 17-0494 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	150.92	38.15
28 46 21 17-0495 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	148.66	38.15
28 46 21 17-0496 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	143.21	38.15
28 46 21 17-0497 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	143.21	38.15
28 46 21 17-0498 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	143.21	38.15
28 46 21 17-0499 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	143.21	38.15
<b>28 46 21 17-0500 Interior Strobe</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0501 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101).....	125.50	38.15
28 46 21 17-0502 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	125.50	38.15
28 46 21 17-0503 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	125.46	38.15
28 46 21 17-0504 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	125.50	38.15
28 46 21 17-0505 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	136.09	38.15
28 46 21 17-0506 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	136.09	38.15
28 46 21 17-0507 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	136.77	38.15
28 46 21 17-0508 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	138.62	38.15
28 46 21 17-0509 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	138.62	38.15
28 46 21 17-0510 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	138.62	38.15
28 46 21 17-0511 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	125.50	38.15
28 46 21 17-0512 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	125.50	38.15
28 46 21 17-0513 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	125.50	38.15
28 46 21 17-0514 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	125.50	38.15
<b>28 46 21 17-0515 Interior Speakers</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0516 EA Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	106.04	38.15
28 46 21 17-0517 EA White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	106.04	38.15
28 46 21 17-0518 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	106.04	38.15
<b>28 46 21 17-0519 Interior Speaker Strobe</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0520 EA Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	159.80	38.15
28 46 21 17-0521 EA White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	159.80	38.15
<b>28 46 21 17-0522 Surge Suppressors</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0523 EA Overvoltage Suppressor (Simplex 2081-9044).....	94.13	7.63
28 46 21 17-0524 EA Isolated Loop Circuit Protector (Simplex 2081-9028).....	61.67	7.63
28 46 21 17-0525 EA 120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	196.93	7.63
28 46 21 17-0526 EA 24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B).....	70.04	7.63
28 46 21 17-0527 EA Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB).....	106.18	12.71
28 46 21 17-0528 EA 120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	71.70	7.63
28 46 21 17-0529 EA <105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	54.97	7.63
<b>28 46 21 17-0530 Boxes And Adapters</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0531 EA Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	51.21	12.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0532 EA Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	48.87	12.71
28 46 21 17-0533 EA Red, Surface Mount Adapter Skirt (Simplex 4905-9937) .....	44.27	12.71
28 46 21 17-0534 EA White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	37.76	12.71
<b>28 46 21 17-0535 Accessories</b> <small>(28 46 21 17-0403)</small>		
28 46 21 17-0536 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	28.16	12.71
<b>28 46 21 17-0537 Siemens Fire Alarm</b> <small>(28 46 21 17)</small>		
<b>28 46 21 17-0538 Conventional Control Panels</b> <small>(28 46 21 17-0537)</small>		
<b>28 46 21 17-0539 SXL Batteries And Power Supplies</b> <small>(28 46 21 17-0538)</small>		
28 46 21 17-0540 EA 6 Amp Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3) .....	788.05	50.86
28 46 21 17-0541 EA Main Board Only For PAD-3 (Siemens PAD-3-MB).....	640.02	50.86
<b>28 46 21 17-0542 Digital Fire Communicators</b> <small>(28 46 21 17-0538)</small>		
28 46 21 17-0543 EA Four Channel Digital Slave Fire Communicator (Siemens 5129).....	620.51	50.86
<b>28 46 21 17-0544 Addressable Control Panels</b> <small>(28 46 21 17-0537)</small>		
<b>28 46 21 17-0545 Fireseeker Equipment</b> <small>(28 46 21 17-0544)</small>		
<b>28 46 21 17-0546 FS-250 System Panels</b> <small>(28 46 21 17-0545)</small>		
28 46 21 17-0547 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS- 250-EKIT) .....	2,104.68	508.68
<small>Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.</small>		
28 46 21 17-0548 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT) .....	2,556.83	508.68
<small>Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS- RPT is a releasing power transformer. FS-REL is a Releasing Module.</small>		
28 46 21 17-0549 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT) .....	1,580.93	406.94
<small>Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.</small>		
28 46 21 17-0550 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON) .....	2,107.37	508.68
<b>28 46 21 17-0551 FS-250 Optional Modules</b> <small>(28 46 21 17-0545)</small>		
28 46 21 17-0552 EA Main Board Module (Siemens FS-MB2).....	793.43	50.86
28 46 21 17-0553 EA Display Board Module (Siemens FS-DB2) .....	610.67	25.44
28 46 21 17-0554 EA Device Loop Card (Siemens FS-DLC) .....	503.02	25.44
28 46 21 17-0555 EA Releasing Module (Siemens FS-REL) .....	231.18	25.44
28 46 21 17-0556 EA Remote LCD Annunciator (Siemens FS-RD2).....	499.65	25.44
28 46 21 17-0557 EA Relay Processor Card (Siemens FS-RU2).....	435.73	25.44
28 46 21 17-0558 EA Relay Expander Board (Siemens FS-RE8).....	373.83	25.44
28 46 21 17-0559 EA Serial Annunciator Processor Card (Siemens FS-SAU2).....	499.65	25.44
28 46 21 17-0560 EA 16 Output Annunciator Extender (Siemens FS-SAE16).....	392.67	25.44
28 46 21 17-0561 EA Digital Alarm Communication Transmitter (Siemens FS-DACT).....	358.35	25.44
28 46 21 17-0562 EA Municipal Tie Module (Siemens FS-MT).....	306.54	25.44
28 46 21 17-0563 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2) .....	294.85	
28 46 21 17-0564 EA Programming Cable Kit (Siemens CBL-UD) .....	77.25	12.71
28 46 21 17-0565 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE) .....	140.35	25.44
28 46 21 17-0566 EA Releasing Power Transformer (Siemens FS-RPT-A).....	142.37	25.44
28 46 21 17-0567 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB) .....	156.42	20.35
28 46 21 17-0568 EA Cabinet Trim Kit (Siemens RD-CAB-TK).....	243.44	12.71
<b>28 46 21 17-0569 Firefinder Systems</b> <small>(28 46 21 17-0544)</small>		
<b>28 46 21 17-0570 XLS Basic Fire System Packages Without Backbox</b> <small>(28 46 21 17-0569)</small>		
28 46 21 17-0571 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID- SP (Siemens XLS-500-ID-SP) .....	6,982.18	508.68
<small>Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.</small>		
28 46 21 17-0572 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID- SP (Siemens XLS-250-ID-SP).....	6,213.78	508.68
<small>Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.</small>		
28 46 21 17-0573 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	6,213.78	508.68
<small>Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.</small>		

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0574 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	10,032.88	508.68
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0575 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3- BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	10,351.81	508.68
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0576 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	6,136.40	508.68
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0577 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	6,136.40	508.68
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0578 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	7,035.33	508.68
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
<b>28 46 21 17-0579 Firefinder - XLS Basic System Equipment (28 46 21 17-0569)</b>		
28 46 21 17-0580 EA Person Machine Interface With Central Processor (Siemens PMI).....	3,259.96	508.68
Note: Includes inner door.		
28 46 21 17-0581 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	5,245.54	508.68
Note: Includes inner door.		
28 46 21 17-0582 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	3,259.96	508.68
Note: Includes inner door.		
28 46 21 17-0583 EA Two Slot Card Cage (Siemens CC-2).....	384.59	25.44
28 46 21 17-0584 EA Five Slot Card Cage (Siemens CC-5).....	640.95	25.44
28 46 21 17-0585 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	910.09	25.44
28 46 21 17-0586 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	949.79	25.44
28 46 21 17-0587 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	309.23	25.44
28 46 21 17-0588 EA Device Loop Card (Siemens DLC).....	1,076.28	25.44
Note: Interfaces with up to 252 detectors and devices.		
28 46 21 17-0589 EA Controllable Relay Card (Siemens CRC-6).....	615.38	25.44
Note: Provides six programmable relays.		
28 46 21 17-0590 EA 12 Amp Power Supply Charger Module (Siemens PSC-12).....	2,293.47	25.44
28 46 21 17-0591 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	4,157.54	508.68
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 17-0592 EA Network Interface Card (Siemens NIC-C).....	717.65	25.44
Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 17-0593 EA 12 Amp Power Supply Extender (Siemens PSX-12).....	1,909.94	25.44
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 17-0594 EA Power Termination Board (Siemens PTB).....	333.46	25.44
Note: Used with systems requiring more than one PSX-12.		
28 46 21 17-0595 EA Conventional Detector Card (Siemens CDC-4).....	692.09	25.44
28 46 21 17-0596 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	1,342.73	25.44
28 46 21 17-0597 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	4,793.11	25.44
<b>28 46 21 17-0598 Remote Lobby Enclosure (28 46 21 17-0569)</b>		
28 46 21 17-0599 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	934.86	101.74
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0600 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	1,190.54	101.74
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0601 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	153.81	25.44
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 21 17-0602 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	166.59	25.44
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
<b>28 46 21 17-0603 Battery Enclosures (28 46 21 17-0569)</b>		
28 46 21 17-0604 EA Enclosure For 100 Amp Hours Batteries (Siemens CAB-BATT).....	601.12	101.74
<b>28 46 21 17-0605 Graphic Annunciator Output Drivers And Inputs (28 46 21 17-0569)</b>		
28 46 21 17-0606 EA Output Control Module (Siemens OCM-16).....	448.51	25.44
28 46 21 17-0607 EA Supervised Input Module (Siemens SIM-16).....	448.51	25.44
<b>28 46 21 17-0608 Remote LCD Displays (28 46 21 17-0569)</b>		
28 46 21 17-0609 EA Remote LED/LCD System Status Display (Siemens SSD).....	1,049.51	76.30
Note: No control or menu capability.		
28 46 21 17-0610 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	1,178.02	76.30



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-0611</b>				<b>Voice Equipment</b> <small>(28 46 21 17-0669)</small>		
			EA	40W Zone Amplifier Card (Siemens ZAC-40) .....	1,014.38	25.44
			EA	180W Zone Amplifier Module (Siemens ZAM-180) .....	2,230.22	25.44
			EA	Live Voice Module (Siemens LVM) .....	947.77	25.44
				Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
<b>28 46 21 17-0615</b>				<b>MXL Series Equipment</b> <small>(28 46 21 17-0544)</small>		
<b>28 46 21 17-0616</b>				<b>MXL Optional Equipment</b> <small>(28 46 21 17-0615)</small>		
			EA	Two Circuit Analog Loop Driver (Siemens ALD-21) .....	1,105.63	50.86
			EA	CXL/MXL Interface Module (Siemens CMI-300) .....	2,796.09	25.44
			EA	Four Relay Programmable Relay Module (Siemens CRM-4) .....	492.25	25.44
			EA	Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4) .....	591.16	25.44
			EA	Remote Conventional Zone Module (Siemens CZM-1B6) .....	231.86	25.44
			EA	Short Circuit Line Isolator Module (Siemens Model LIM-1) .....	149.10	25.44
			EA	Four Circuit Conventional Zone Module (Siemens CZM-4) .....	575.68	25.44
			EA	12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD) .....	224.33	38.15
			EA	Lexan Window For RCC (Siemens GENBOX-WD) .....	149.02	20.35
			EA	Input Driver Module (Siemens MID-16) .....	382.58	25.44
			EA	Programmable Output Driver Module (Siemens MOD-16) .....	382.58	25.44
			EA	MXL Output/Input Module (Siemens MOI-7) .....	603.27	25.44
			EA	Two Slot Network Option Module Card Cage (Siemens MOM-2) .....	328.07	25.44
			EA	Four Slot Network Option Module Card Cage (Siemens MOM-4) .....	507.73	25.44
			EA	12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220) .....	1,256.75	76.30
			EA	12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240) .....	1,256.75	76.30
			EA	Network Interface Module (Siemens NIM-1W) .....	892.60	25.44
			EA	U.L. Listed Parallel Printer (Siemens PAL-1) .....	2,356.59	101.74
			EA	Peripheral Interface Module, Model PIM-1 (Siemens 500-691324) .....	272.23	25.44
			EA	Surface Mounted Remote Command Center (Siemens RCC-1) .....	2,810.50	508.68
			EA	Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL) .....	339.26	50.86
			EA	Flush Mounted Remote Command Center (Siemens RCC-1F) .....	2,810.50	508.68
			EA	Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL) .....	347.33	50.86
			EA	Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2) .....	2,228.48	508.68
			EA	MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3) .....	3,189.98	508.68
			EA	RCC-2/RSE-1 Trim Ring (Siemens RCF-1) .....	55.72	12.71
			EA	Remote Diagnostics Module For MXL (Siemens RDM-MXL) .....	3,600.56	50.86
			EA	Remote Diagnostics Module For PC (Siemens RDM-PC) .....	7,635.64	50.86
			EA	Releasing End Of Line Module (Siemens REL-EOL) .....	124.20	25.44
			EA	36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC) .....	2,306.67	50.86
			EA	36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL) .....	2,203.72	50.86
			EA	8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1) .....	1,213.42	101.74
<b>28 46 21 17-0649</b>				<b>Complete MXL And MXLV System Packages Without Enclosure</b> <small>(28 46 21 17-0615)</small>		
			EA	MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-21 And One PIM-1 (Siemens MXL-SS-EP) .....	8,930.08	508.68
				Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-21 is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
			EA	MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP) .....	11,451.92	508.68
				Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
			EA	MXLV Demonstration Panel (Siemens MXLV DEMO) .....	23,229.49	508.68
<b>28 46 21 17-0653</b>				<b>MXL Basic System</b> <small>(28 46 21 17-0615)</small>		
			EA	MXL/MXLV Main Control Board (Siemens MMB-3) .....	5,756.92	508.68
			EA	MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL) .....	7,263.43	508.68
				Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
			EA	MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2) .....	1,950.06	50.86
			EA	MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5) .....	2,435.86	50.86
			EA	6 Amp Power Supply For MXL (Siemens MPS-6) .....	879.28	76.30
			EA	220/240 Volt AC Adapter Cable (Siemens CIA-12) .....	69.18	12.71
<b>28 46 21 17-0660</b>				<b>MXL/MXLV System Expansion Accessories</b> <small>(28 46 21 17-0615)</small>		
			EA	MXL Remote Power Supply Module (Siemens PSR-1) .....	1,069.69	76.30
			EA	Style 4 Communication Module (Siemens NET-4) .....	225.13	25.44
			EA	Style 7 Communication Module (Siemens NET-7) .....	398.05	25.44
			EA	MXL/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6) .....	244.64	25.44



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-0665</b> <b>Peripheral Devices</b> <small>(28 46 21 17-0544)</small>		
<b>28 46 21 17-0666</b> <b>Thermal Detectors</b> <small>(28 46 21 17-0665)</small>		
28 46 21 17-0667 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	109.27	38.15
28 46 21 17-0668 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	109.27	38.15
28 46 21 17-0669 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	109.27	38.15
28 46 21 17-0670 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	109.27	38.15
28 46 21 17-0671 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	159.73	38.15
28 46 21 17-0672 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	159.73	38.15
28 46 21 17-0673 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	363.61	38.15
<b>28 46 21 17-0674</b> <b>Beam Smoke Detector</b> <small>(28 46 21 17-0665)</small>		
28 46 21 17-0675 EA Linear Beam Smoke Detector (Siemens PBA-1191).....	1,657.60	38.15
28 46 21 17-0676 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	192.31	12.71
28 46 21 17-0677 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	194.33	12.71
28 46 21 17-0678 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	102.82	12.71
<b>28 46 21 17-0679</b> <b>Bases For Detectors</b> <small>(28 46 21 17-0665)</small>		
28 46 21 17-0680 EA Detector Base (Siemens DB-11).....	35.53	12.71
28 46 21 17-0681 EA Universal Base (Siemens DB-3S).....	33.51	12.71
<b>28 46 21 17-0682</b> <b>Manual Stations</b> <small>(28 46 21 17-0665)</small>		
28 46 21 17-0683 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	221.85	30.52
<b>28 46 21 17-0684</b> <b>Addressable Devices</b> <small>(28 46 21 17-0544)</small>		
<b>28 46 21 17-0685</b> <b>Intelligent Detectors And Devices For Firefinder XLS And FS-250</b> <small>(28 46 21 17-0684)</small>		
28 46 21 17-0686 EA Addressable Fireprint Fire Detector (Siemens HFP-11).....	192.03	38.15
28 46 21 17-0687 EA Addressable Thermal Fire Detector (Siemens HFPT-11).....	168.48	38.15
28 46 21 17-0688 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	140.89	38.15
28 46 21 17-0689 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	101.20	38.15
28 46 21 17-0690 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	101.20	38.15
28 46 21 17-0691 EA Addressable Single Action Manual Pull Station (Siemens HMS-S).....	192.83	25.44
28 46 21 17-0692 EA Addressable Double Action Manual Pull Station (Siemens HMS-D).....	184.76	25.44
28 46 21 17-0693 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	149.10	25.44
28 46 21 17-0694 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	179.37	25.44
28 46 21 17-0695 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	179.37	25.44
28 46 21 17-0696 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	139.00	25.44
28 46 21 17-0697 EA Line Isolator Module (Siemens HLIM).....	143.04	25.44
28 46 21 17-0698 EA Remote Convention Zone Module (Siemens HZM).....	204.94	25.44
28 46 21 17-0699 EA Intelligent Control Point Module (Siemens HCP).....	256.08	25.44
28 46 21 17-0700 EA Handheld Programming And Testing Unit (Siemens DPU).....	1,075.09	
28 46 21 17-0701 EA DPU Carrying Case (Siemens DPU-C1).....	168.67	
28 46 21 17-0702 EA Label Printer And Carrying Case (Siemens DPU-PRT).....	1,843.33	25.44
<b>28 46 21 17-0703</b> <b>Air Duct Housings And Detectors</b> <small>(28 46 21 17-0684)</small>		
28 46 21 17-0704 EA Air-Duct Housing (Siemens AD2-P).....	206.88	20.35
28 46 21 17-0705 EA Air-Duct Housing With Relay (Siemens AD2-XHR).....	232.45	20.35
28 46 21 17-0706 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000).....	191.49	25.44
28 46 21 17-0707 EA 6" To 1' Duct Sampling Tube (Siemens ST-10).....	28.72	7.63
28 46 21 17-0708 EA >1' To 3' Duct Sampling Tube (Siemens ST-25).....	35.83	10.18
28 46 21 17-0709 EA >3' To 5' Duct Sampling Tube (Siemens ST-50).....	44.95	12.71
28 46 21 17-0710 EA >5' To 10' Duct Sampling Tube (Siemens ST-100).....	52.72	15.26
<b>28 46 21 17-0711</b> <b>Intelligent Initiating Devices For MXL, MXL-LQ And MXLV</b> <small>(28 46 21 17-0684)</small>		
28 46 21 17-0712 EA Addressable Fireprint Fire Detector (Siemens FP-11).....	199.43	38.15
28 46 21 17-0713 EA Addressable Thermal Fire Detector (Siemens FPT-11).....	174.54	38.15
28 46 21 17-0714 EA Intelligent Ionization Smoke Detector (Siemens ILI-1).....	218.27	38.15
28 46 21 17-0715 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	188.12	25.44
28 46 21 17-0716 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	206.29	25.44
28 46 21 17-0717 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S).....	190.14	25.44
28 46 21 17-0718 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	208.98	25.44
28 46 21 17-0719 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	208.98	25.44
<b>28 46 21 17-0720</b> <b>Detector Universal Bases</b> <small>(28 46 21 17-0684)</small>		
28 46 21 17-0721 EA Detector Base With Relay (Siemens DB-X11RS).....	89.36	12.71
28 46 21 17-0722 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	48.99	12.71
28 46 21 17-0723 EA Locking Kit (Siemens LK-11).....	10.72	
28 46 21 17-0724 EA Detector Base With Relay (Siemens DB-X3RS).....	89.36	12.71
28 46 21 17-0725 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	102.82	12.71
28 46 21 17-0726 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	46.97	12.71
28 46 21 17-0727 EA Flush Trim Ring For Bases (Siemens RA-ADB).....	23.33	7.63
28 46 21 17-0728 EA Seal For DB-11 (Siemens DB11-SEAL).....	12.34	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0729 EA Gasket For DB-11 (Siemens DB-SEAL).....	13.23	
28 46 21 17-0730 EA Detector Guard Housing (Siemens DGH-11).....	127.71	12.71
28 46 21 17-0731 EA Small Detector Base (Siemens DB-11E).....	38.22	12.71
28 46 21 17-0732 EA Audible Base For Series 3 (Siemens ADBI-60A).....	114.93	12.71
28 46 21 17-0733 EA Base Plug (Siemens DB-11-DP).....	10.69	
<b>28 46 21 17-0734 Air Duct Smoke Detectors (28 46 21 17-0684)</b>		
28 46 21 17-0735 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	105.36	25.44
28 46 21 17-0736 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	486.19	25.44
<b>28 46 21 17-0737 Notification Devices (28 46 21 17-0544)</b>		
<b>28 46 21 17-0738 Synchronization Control Devices (28 46 21 17-0737)</b>		
28 46 21 17-0739 EA Dual Synchronization Control Module (Siemens DSC).....	149.10	25.44
<b>28 46 21 17-0740 Stand Alone Strobes (28 46 21 17-0737)</b>		
28 46 21 17-0741 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	133.49	38.15
28 46 21 17-0742 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	143.58	38.15
28 46 21 17-0743 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR).....	133.49	38.15
28 46 21 17-0744 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	143.58	38.15
28 46 21 17-0745 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	143.58	38.15
28 46 21 17-0746 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	133.49	38.15
28 46 21 17-0747 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R).....	150.99	38.15
28 46 21 17-0748 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP).....	145.60	38.15
28 46 21 17-0749 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	145.60	38.15
28 46 21 17-0750 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	154.35	38.15
28 46 21 17-0751 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP).....	154.35	38.15
<b>28 46 21 17-0752 Horns And Strobes (28 46 21 17-0737)</b>		
28 46 21 17-0753 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	173.19	38.15
28 46 21 17-0754 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R).....	181.94	38.15
28 46 21 17-0755 EA Wall Mounted Horn (Siemens SE-R).....	109.27	38.15
28 46 21 17-0756 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	173.19	38.15
28 46 21 17-0757 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	181.94	38.15
28 46 21 17-0758 EA Ceiling Mounted Horn (Siemens SEC-R).....	113.31	38.15
28 46 21 17-0759 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R).....	173.19	38.15
28 46 21 17-0760 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R).....	181.94	38.15
28 46 21 17-0761 EA Wall Mounted Low Profile Horn (Siemens SEF-R).....	109.27	38.15
28 46 21 17-0762 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	173.19	38.15
28 46 21 17-0763 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	181.94	38.15
28 46 21 17-0764 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	113.31	38.15
28 46 21 17-0765 EA Mini Horn (Siemens MH-R).....	94.47	38.15
28 46 21 17-0766 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	114.65	38.15
28 46 21 17-0767 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	164.44	38.15
28 46 21 17-0768 EA Industrial Tri-Tone Horn (Siemens ASR).....	429.55	38.15
28 46 21 17-0769 EA Wall Mounted Horn (Siemens HS-R).....	114.65	38.15
28 46 21 17-0770 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	165.12	38.15
28 46 21 17-0771 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	175.88	38.15
28 46 21 17-0772 EA 6" Motor Bell (Siemens MBDC-6).....	128.11	38.15
28 46 21 17-0773 EA 10" Motor Bell (Siemens MBDC-10).....	138.20	38.15
<b>28 46 21 17-0774 Mounting Accessories (28 46 21 17-0737)</b>		
28 46 21 17-0775 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	33.51	12.71
28 46 21 17-0776 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	33.51	12.71
28 46 21 17-0777 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	34.19	12.71
28 46 21 17-0778 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	50.34	12.71
28 46 21 17-0779 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	41.59	12.71
28 46 21 17-0780 EA Surface Mounted Speaker Backbox (Siemens SBBS-R).....	43.61	12.71
28 46 21 17-0781 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R).....	46.30	12.71
28 46 21 17-0782 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	38.22	12.71
28 46 21 17-0783 EA Semi-Flush Plate (Siemens SFPS-R).....	32.84	12.71
28 46 21 17-0784 EA Square Surface Backbox (Siemens SHBBS-R).....	38.22	12.71
28 46 21 17-0785 EA Horn Adapter Plate (Siemens SHMPS-R).....	36.88	12.71
28 46 21 17-0786 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R).....	33.51	12.71
28 46 21 17-0787 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	41.59	12.71
28 46 21 17-0788 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	43.61	12.71
28 46 21 17-0789 EA Weatherproof Speaker Backbox (Siemens WBBS-R).....	42.26	12.71
28 46 21 17-0790 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	46.30	12.71
28 46 21 17-0791 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	46.30	12.71
28 46 21 17-0792 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	46.30	12.71
28 46 21 17-0793 EA Weatherproof Horn Backbox (Siemens WPBBS-R).....	43.61	12.71
28 46 21 17-0794 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	43.61	12.71
28 46 21 17-0795 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	33.51	12.71
28 46 21 17-0796 EA Z Series Backbox (Siemens ZBB-R).....	36.88	12.71

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-0797		<b>Door Holders</b> (28 46 21 17-0737)		
28 46 21	17-0798	EA	120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	249.90	38.15
28 46 21	17-0799	EA	24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	249.90	38.15
28 46 21	17-0800		<b>Voice Equipment</b> (28 46 21 17-0544)		
28 46 21	17-0801		<b>Voicecom</b> (28 46 21 17-0800)		
28 46 21	17-0802	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	3,786.13	508.68
28 46 21	17-0803	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	5,838.32	508.68
28 46 21	17-0804		<b>Johnson Controls Fire Alarm</b> (28 46 21 17)		
28 46 21	17-0805	EA	Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	154.75	38.15
28 46 21	17-0806	EA	Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	153.29	38.15
28 46 21	17-0807	EA	Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	186.71	38.15
28 46 21	17-0808	EA	Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	186.25	38.15
28 46 21	17-0809	EA	411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	485.36	50.86
28 46 21	17-0810	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	147.30	38.15
28 46 21	17-0811	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	133.47	38.15
28 46 21	17-0812	EA	Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	130.54	38.15
28 46 21	17-0813	EA	Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	355.91	38.15
28 46 21	17-0814	EA	100 Watt Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	1,677.00	76.30
28 46 21	17-0815	EA	AUDIO Amplifier, 100 Watt, 230 Volt AC (Johnson Controls, Inc. #AA-100E).....	1,626.03	76.30
28 46 21	17-0816	EA	120 Watt Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-120).....	1,653.53	76.30
28 46 21	17-0817	EA	AUDIO Amplifier, 120 Watt, 230 Volt AC (Johnson Controls, Inc. #AA-120E).....	1,584.86	76.30
28 46 21	17-0818	EA	30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Johnson Controls, Inc. #AA-30).....	791.58	76.30
28 46 21	17-0819	EA	AUDIO Amplifier, 30 Watt, 230 Volt AC (Johnson Controls, Inc. #AA-30E).....	791.58	76.30
28 46 21	17-0820	EA	Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	767.00	25.44
28 46 21	17-0821	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	797.26	25.44
28 46 21	17-0822	EA	Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	588.99	25.44
28 46 21	17-0823	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	588.99	25.44
28 46 21	17-0824	EA	Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	419.23	25.44
28 46 21	17-0825	EA	Charger Power Supply - 6 Or 10 Amps; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	1,336.45	50.86
28 46 21	17-0826	EA	Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	588.99	25.44
28 46 21	17-0827	EA	Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	611.74	25.44
28 46 21	17-0828	EA	Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	529.30	25.44
28 46 21	17-0829	EA	Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	529.30	25.44
28 46 21	17-0830	EA	Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX).....	98.25	22.89
28 46 21	17-0831	EA	Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	815.83	50.86
28 46 21	17-0832	EA	Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	1,748.02	50.86
28 46 21	17-0833	EA	Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	815.83	50.86
28 46 21	17-0834	EA	Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	1,748.02	50.86
28 46 21	17-0835	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	37.78	12.71
28 46 21	17-0836	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	90.89	12.71
28 46 21	17-0837	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	86.09	12.71
28 46 21	17-0838	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	39.84	12.71
28 46 21	17-0839	EA	Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	36.43	12.71
28 46 21	17-0840	EA	Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	601.85	50.86
28 46 21	17-0841	EA	Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	1,387.31	76.30
28 46 21	17-0842	EA	Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	1,464.48	76.30
28 46 21	17-0843	EA	Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	164.35	12.71
28 46 21	17-0844	EA	Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	112.91	12.71
28 46 21	17-0845	EA	Digital Audio Amplifier, 50 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-5025).....	1,388.45	76.30
28 46 21	17-0846	EA	Digital Audio Amplifier, 50 Watt, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	1,284.41	76.30
28 46 21	17-0847	EA	Digital Audio Amplifier, 50 Watt, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	1,284.41	76.30
28 46 21	17-0848	EA	Digital Audio Amplifier, 50 Watt, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	1,500.82	76.30



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-0849	EA		Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	1,387.31	76.30
28 46 21	17-0850	EA		Digital Audio Amplifier, 50 Watt, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	1,387.31	76.30
28 46 21	17-0851	EA		Digital Audio Amplifier, 50 Watt, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	1,387.31	76.30
28 46 21	17-0852	EA		Digital Audio Amplifier, 75 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	1,651.89	76.30
28 46 21	17-0853	EA		Digital Audio Amplifier, 75 Watt, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	1,651.89	76.30
28 46 21	17-0854	EA		Digital Audio Amplifier, 75 Watt, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	1,651.89	76.30
28 46 21	17-0855	EA		Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	180.57	25.44
28 46 21	17-0856	EA		Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	270.54	25.44
28 46 21	17-0857	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	28.55	10.18
28 46 21	17-0858	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	30.67	10.18
28 46 21	17-0859	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	70.10	15.26
28 46 21	17-0860	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	35.41	10.18
28 46 21	17-0861	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	43.80	12.71
28 46 21	17-0862	EA		Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	472.07	25.44
28 46 21	17-0863	EA		Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	456.73	50.86
28 46 21	17-0864	EA		Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	396.62	76.30
28 46 21	17-0865	EA		Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	535.18	76.30
28 46 21	17-0866	EA		Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	581.48	76.30
28 46 21	17-0867	EA		Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	292.29	10.18
28 46 21	17-0868	EA		Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	438.08	10.18
28 46 21	17-0869	EA		Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	480.96	10.18
28 46 21	17-0870	EA		6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6)..... Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	801.06	101.74
28 46 21	17-0871	EA		8.0 Ampere, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8)..... Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	806.07	101.74
28 46 21	17-0872	EA		80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	754.53	76.30
28 46 21	17-0873	EA		Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	138.63	12.71
28 46 21	17-0874	EA		Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	387.32	25.44
28 46 21	17-0875	EA		Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	217.17	38.15
28 46 21	17-0876	EA		Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	180.68	38.15
28 46 21	17-0877	EA		Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	188.98	38.15
28 46 21	17-0878	EA		Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	1,399.91	50.86
28 46 21	17-0879	EA		Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	1,704.43	50.86
28 46 21	17-0880	EA		Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	519.98	25.44
28 46 21	17-0881	EA		IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320)..... Note: Includes Door, Dress Panel And Back Box, Black	3,656.08	406.94
28 46 21	17-0882	EA		Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	1,719.21	50.86
28 46 21	17-0883	EA		Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #FI).....	23,020.18	610.41
28 46 21	17-0884	EA		Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	25,078.03	610.41
28 46 21	17-0885	EA		Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	28,164.81	610.41
28 46 21	17-0886	EA		Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	25,078.03	610.41
28 46 21	17-0887	EA		Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	172.51	15.26
28 46 21	17-0888	EA		Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	193.10	15.26
28 46 21	17-0889	EA		Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	209.56	15.26
28 46 21	17-0890	EA		Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	384.48	15.26
28 46 21	17-0891	EA		Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	127.35	10.18
28 46 21	17-0892	EA		Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	202.52	22.89
28 46 21	17-0893	EA		Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	214.32	22.89
28 46 21	17-0894	EA		Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D).....	383.26	22.89
28 46 21	17-0895	EA		Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	375.34	10.18
28 46 21	17-0896	EA		Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	503.96	10.18
28 46 21	17-0897	EA		Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	622.28	10.18
28 46 21	17-0898	EA		Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	187.37	25.44
28 46 21	17-0899	EA		Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	86.52	10.18
28 46 21	17-0900	EA		JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	3,648.30	406.94
28 46 21	17-0901	EA		Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640)..... Note: Includes CHS2-M2 Chassis	2,640.07	305.21
28 46 21	17-0902	EA		Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	4,669.82	406.94
28 46 21	17-0903	EA		Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	4,438.09	305.21
28 46 21	17-0904	EA		Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	3,244.75	305.21
28 46 21	17-0905	EA		Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	1,705.41	38.15
28 46 21	17-0906	EA		Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	1,722.58	38.15
28 46 21	17-0907	EA		Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	1,722.58	38.15
28 46 21	17-0908	EA		Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	2,041.79	50.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0909 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. Mounting Options Include: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D). (Johnson Controls, Inc. #JNCA-2).....	1,734.64	50.86
28 46 21 17-0910 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	1,639.34	305.21
28 46 21 17-0911 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	1,240.37	50.86
28 46 21 17-0912 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,025.28	50.86
28 46 21 17-0913 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	1,633.18	50.86
28 46 21 17-0914 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	503.88	12.71
28 46 21 17-0915 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	165.42	10.18
28 46 21 17-0916 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	202.46	10.18
28 46 21 17-0917 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	407.18	12.71
28 46 21 17-0918 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	741.58	12.71
28 46 21 17-0919 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	1,338.11	12.71
28 46 21 17-0920 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	111.24	12.71
28 46 21 17-0921 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	173.18	12.71
28 46 21 17-0922 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	88.80	12.71
28 46 21 17-0923 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	121.84	12.71
28 46 21 17-0924 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ).....	97.48	12.71
28 46 21 17-0925 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	154.62	12.71
28 46 21 17-0926 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	175.37	12.71
28 46 21 17-0927 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	101.89	12.71
28 46 21 17-0928 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	1,426.25	38.15
28 46 21 17-0929 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	1,263.96	25.44
28 46 21 17-0930 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,169.30	25.44
28 46 21 17-0931 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	46.19	5.09
28 46 21 17-0932 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,024.64	25.44
28 46 21 17-0933 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	976.35	25.44
28 46 21 17-0934 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	2,485.09	50.86
28 46 21 17-0935 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	696.42	25.44
28 46 21 17-0936 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	192.17	10.18
28 46 21 17-0937 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	444.95	25.44
28 46 21 17-0938 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	444.95	25.44
28 46 21 17-0939 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	121.19	10.18
28 46 21 17-0940 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	33.45	5.09
28 46 21 17-0941 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	33.45	5.09
28 46 21 17-0942 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	138.05	38.15
28 46 21 17-0943 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	152.44	38.15
28 46 21 17-0944 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	179.08	43.24
28 46 21 17-0945 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	177.02	43.24
28 46 21 17-0946 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,087.32	101.74
28 46 21 17-0947 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	860.95	101.74
28 46 21 17-0948 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	138.05	38.15
28 46 21 17-0949 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	152.44	38.15
28 46 21 17-0950 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	138.05	38.15
28 46 21 17-0951 EA Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	26.88	10.18
28 46 21 17-0952 EA SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	26.69	5.09
28 46 21 17-0953 EA SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	30.00	5.09
28 46 21 17-0954 EA SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	26.72	5.09
28 46 21 17-0955 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR).....	128.12	38.15
28 46 21 17-0956 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH).....	152.44	38.15
28 46 21 17-0957 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	179.08	43.24
28 46 21 17-0958 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	152.44	38.15
28 46 21 17-0959 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	177.02	43.24
28 46 21 17-0960 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	138.05	38.15
28 46 21 17-0961 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	138.05	38.15
28 46 21 17-0962 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	152.44	38.15
28 46 21 17-0963 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	152.44	38.15
28 46 21 17-0964 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	138.05	38.15
28 46 21 17-0965 EA Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	168.45	12.71
28 46 21 17-0966 EA Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	740.43	50.86
28 46 21 17-0967 EA Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	201.45	50.86
28 46 21 17-0968 EA Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	88.20	25.44
28 46 21 17-0969 EA Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	88.20	25.44
28 46 21 17-0970 EA Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	150.57	25.44





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0971 EA Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	162.50	25.44
28 46 21 17-0972 EA Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH).....	162.50	25.44
28 46 21 17-0973 EA Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	145.83	25.44
28 46 21 17-0974 EA Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	193.59	25.44
28 46 21 17-0975 EA Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	150.57	25.44
28 46 21 17-0976 EA Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	88.20	25.44
28 46 21 17-0977 EA Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	88.20	25.44
28 46 21 17-0978 EA Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	162.50	25.44
28 46 21 17-0979 EA Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	150.57	25.44
28 46 21 17-0980 EA Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	150.57	25.44
<b>28 46 21 17-0981 Honeywell Fire Alarm (28 46 21 17)</b>		
<b>28 46 21 17-0982 Notifier Fire Alarm (28 46 21 17-0981)</b>		
<b>28 46 21 17-0983 Fire Alarm Control Panel And Accessories (28 46 21 17-0982)</b>		
28 46 21 17-0984 EA NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D).....	4,362.73	508.68
28 46 21 17-0985 EA NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640).....	3,687.88	508.68
28 46 21 17-0986 EA Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	4,354.79	508.68
28 46 21 17-0987 EA Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C).....	4,586.88	508.68
28 46 21 17-0988 EA Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E).....	4,476.40	508.68
28 46 21 17-0989 EA Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R).....	4,476.40	508.68
28 46 21 17-0990 EA Two-Tone Sequential Module (Notifier 2TTM).....	227.26	25.44
28 46 21 17-0991 EA 5', Not Low Loss, Antenna Cable (Notifier 7626-5C).....	67.74	5.09
28 46 21 17-0992 EA 25', Low Loss, Antenna Cable (Notifier 7626-25HC).....	131.76	10.18
28 46 21 17-0993 EA 50', Low Loss, Antenna Cable (Notifier 7626-50HC).....	200.42	15.26
28 46 21 17-0994 EA IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	311.94	
28 46 21 17-0995 EA RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119).....	44.56	
28 46 21 17-0996 EA 120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,386.35	508.68
28 46 21 17-0997 EA 240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE).....	4,386.35	508.68
28 46 21 17-0998 EA 3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB).....	168.94	5.09
28 46 21 17-0999 EA Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER).....	51.96	5.09
28 46 21 17-1000 EA Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT).....	66.77	10.18
28 46 21 17-1001 EA Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT).....	75.57	12.71
28 46 21 17-1002 EA IP Communicator (Notifier IPDACT-2).....	567.05	25.44
28 46 21 17-1003 EA IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD).....	659.89	25.44
28 46 21 17-1004 EA Red, IP Communicator External Mounting Enclosure (Notifier IPENC).....	153.91	25.44
Note: Includes IPBRKT.		
28 46 21 17-1005 EA Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	153.91	25.44
Note: Includes IPBRKT.		
28 46 21 17-1006 EA Single Or Dual Path Commercial Fire Communicator (Notifier IPGSM-4G).....	791.17	38.15
28 46 21 17-1007 EA Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	40.77	10.18
28 46 21 17-1008 EA Loop Control Module (Notifier LCM-320).....	1,432.92	50.86
28 46 21 17-1009 EA Loop Expander Module (Notifier LEM-320).....	1,244.14	50.86
28 46 21 17-1010 EA Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,093.29	50.86
28 46 21 17-1011 EA 7' DACT Phone Cord (Notifier MCBL-7).....	19.46	
28 46 21 17-1012 EA Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1).....	142.42	12.71
28 46 21 17-1013 EA Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R).....	167.84	25.44
28 46 21 17-1014 EA Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B).....	167.84	25.44
28 46 21 17-1015 EA Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2).....	631.11	25.44
28 46 21 17-1016 EA Universal Zone Coder (Notifier UZC-256).....	849.28	25.44
28 46 21 17-1017 EA Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI).....	257.13	
Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 21 17-1018 EA Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	589.68	
28 46 21 17-1019 EA ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	396.58	
28 46 21 17-1020 EA Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	3,953.01	15.26
<b>28 46 21 17-1021 ONYX Cabinets (28 46 21 17-0982)</b>		
28 46 21 17-1022 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R).....	366.16	12.71
28 46 21 17-1023 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R).....	488.71	12.71
28 46 21 17-1024 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R).....	601.98	12.71
28 46 21 17-1025 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4).....	92.72	15.26
28 46 21 17-1026 EA Chassis Bridge (Notifier CB-1).....	81.14	12.71
28 46 21 17-1027 EA Four Position Chassis (Notifier CHS-4).....	135.92	12.71
28 46 21 17-1028 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	154.95	25.44
28 46 21 17-1029 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B).....	73.69	15.26
28 46 21 17-1030 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP).....	101.08	15.26
28 46 21 17-1031 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4).....	276.69	25.44
28 46 21 17-1032 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B).....	180.54	25.44
28 46 21 17-1033 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4).....	353.30	38.15
28 46 21 17-1034 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B).....	225.38	38.15
28 46 21 17-1035 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4).....	524.29	50.86
28 46 21 17-1036 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	329.34	50.86
28 46 21 17-1037 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4).....	637.06	63.59
28 46 21 17-1038 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B).....	384.76	63.59
28 46 21 17-1039 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4).....	206.48	12.71
28 46 21 17-1040 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	138.70	12.71



MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
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28 46 21 17-1041	EA	Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR).....	130.35	12.71
28 46 21 17-1042	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R) .....	207.41	12.71
28 46 21 17-1043	EA	Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR) .....	161.91	12.71
28 46 21 17-1044	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R) .....	263.11	12.71
28 46 21 17-1045	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR).....	182.34	12.71
28 46 21 17-1046	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R) .....	316.96	12.71
28 46 21 17-1047	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR).....	264.97	12.71
28 46 21 17-1048	EA	Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R) .....	470.14	12.71
28 46 21 17-1049	EA	Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR).....	296.53	12.71
28 46 21 17-1050	EA	Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R) .....	562.06	12.71
28 46 21 17-1051	EA	Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4) .....	283.89	25.44
28 46 21 17-1052	EA	Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4) .....	412.01	25.44
28 46 21 17-1053	EA	Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4) .....	485.35	25.44
28 46 21 17-1054	EA	Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4) .....	304.31	25.44
28 46 21 17-1055	EA	Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4) .....	440.79	25.44
28 46 21 17-1056	EA	Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4).....	512.27	25.44
28 46 21 17-1057	EA	Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R).....	283.89	25.44
28 46 21 17-1058	EA	Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R).....	412.01	25.44
28 46 21 17-1059	EA	Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R) .....	485.35	25.44
28 46 21 17-1060	EA	Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R) .....	304.31	25.44
28 46 21 17-1061	EA	Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R) .....	440.79	25.44
28 46 21 17-1062	EA	Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R) .....	512.27	25.44
28 46 21 17-1063	EA	Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC) .....	2,634.72	127.17
28 46 21 17-1064	EA	CAB-4 Series Mounting Kit (Notifier P40-KITB) .....	259.75	25.44
		Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 17-1065	EA	Black, One Tier Backbox Assembly (Notifier SBB-A4).....	302.57	76.30
28 46 21 17-1066	EA	Black, Two Tier Backbox Assembly (Notifier SBB-B4).....	424.89	101.74
28 46 21 17-1067	EA	Black, Three Tier Backbox Assembly (Notifier SBB-C4) .....	543.98	101.74
28 46 21 17-1068	EA	Black, Four Tier Backbox Assembly (Notifier SBB-D4) .....	663.65	127.17
28 46 21 17-1069	EA	Black, Mini, One Tier, Backbox (Notifier SBB-AA4) .....	167.84	25.44
28 46 21 17-1070	EA	Red, Mini, One Tier, Backbox (Notifier SBB-AA4R) .....	167.84	25.44
28 46 21 17-1071	EA	Red, One Tier Backbox Assembly (Notifier SBB-A4R) .....	208.69	25.44
28 46 21 17-1072	EA	Red, Two Tier Backbox Assembly (Notifier SBB-B4R) .....	283.89	25.44
28 46 21 17-1073	EA	Red, Three Tier Backbox Assembly (Notifier SBB-C4R).....	409.22	25.44
28 46 21 17-1074	EA	Red, Four Tier Backbox Assembly (Notifier SBB-D4R).....	481.64	25.44
28 46 21 17-1075	EA	Trim Ring For NFS-320 Cabinet (Notifier TR-320) .....	153.07	15.26
28 46 21 17-1076	EA	Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R).....	153.07	15.26
28 46 21 17-1077	EA	Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4).....	199.49	15.26
28 46 21 17-1078	EA	Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4) .....	163.28	15.26
28 46 21 17-1079	EA	Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4) .....	163.28	15.26
28 46 21 17-1080	EA	Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4) .....	161.42	15.26
28 46 21 17-1081	EA	Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4) .....	165.14	15.26
28 46 21 17-1082	EA	2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B).....	68.12	15.26
28 46 21 17-1083	EA	Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2) .....	43.14	5.09

## 28 46 21 17-1084 NFS2-3030/640 Cabinet Mechanicals (28 46 21 17-0982)

28 46 21 17-1085	EA	Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	94.92	15.26
28 46 21 17-1086	EA	Blank Module Dress Plate (Notifier BM-1B) .....	79.92	15.26
28 46 21 17-1087	EA	Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4) .....	89.62	15.26
28 46 21 17-1088	EA	Four Position Expansion Chassis (Notifier CHS-4MB).....	200.91	12.71
28 46 21 17-1089	EA	Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	203.33	38.15
28 46 21 17-1090	EA	Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	98.45	15.26

## 28 46 21 17-1091 NFS-3030/640 Cabinet Mechanicals (28 46 21 17-0982)

28 46 21 17-1092	EA	Annunciator Dress Plate (Notifier ADP-4B).....	90.51	15.26
28 46 21 17-1093	EA	Blank Module Dress Plate (Notifier BMP-1) .....	59.63	15.26
28 46 21 17-1094	EA	Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L) .....	129.81	25.44
28 46 21 17-1095	EA	Module Dress Plate (Notifier MP-1B) .....	91.39	15.26

## 28 46 21 17-1096 Battery Cabinets (28 46 21 17-0982)

28 46 21 17-1097	EA	Six Position Chassis (Notifier CHS-6) .....	88.18	25.44
28 46 21 17-1098	EA	Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB).....	411.96	76.30

## 28 46 21 17-1099 Digital Voice (28 46 21 17-0982)

28 46 21 17-1100	EA	Chassis Used With BB-XP (Notifier 18439) .....	44.47	12.71
28 46 21 17-1101	EA	220 Volt AC, 100 Watts, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E) .....	1,723.28	38.15
28 46 21 17-1102	EA	220 Volt AC, 120 Watts, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E) .....	1,675.00	38.15
28 46 21 17-1103	EA	220 Volt AC, 30 Watts, 25 VRMS Audio Amplifier (Notifier AA-30E).....	808.81	38.15
28 46 21 17-1104	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4) .....	400.05	38.15
28 46 21 17-1105	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4) .....	541.94	50.86
28 46 21 17-1106	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4) .....	674.99	63.59
28 46 21 17-1107	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	710.02	25.44
28 46 21 17-1108	EA	Single Mode Audio Fiber Link Receiver (Notifier AFL-RS).....	1,565.08	25.44
28 46 21 17-1109	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	710.02	25.44
28 46 21 17-1110	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS) .....	1,565.08	25.44
28 46 21 17-1111	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX) .....	89.96	12.71



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1112	EA		Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	143.35	12.71
28 46 21 17-1113	EA		Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	145.67	12.71
28 46 21 17-1114	EA		Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	143.81	12.71
28 46 21 17-1115	EA		Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	145.67	12.71
28 46 21 17-1116	EA		Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	273.32	12.71
28 46 21 17-1117	EA		Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	222.72	12.71
28 46 21 17-1118	EA		Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	61.24	
28 46 21 17-1119	EA		For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	477.92	25.44
28 46 21 17-1120	EA		For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	477.92	25.44
28 46 21 17-1121	EA		Blank Dress Plate For CA-2 (Notifier BP-CA2).....	84.86	12.71
28 46 21 17-1122	EA		One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	114.38	25.44
28 46 21 17-1123	EA		Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	335.66	38.15
28 46 21 17-1124	EA		Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	173.41	25.44
28 46 21 17-1125	EA		Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	173.41	25.44
28 46 21 17-1126	EA		Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	196.27	12.71
28 46 21 17-1127	EA		Chassis With Paging Microphone With Well (Notifier CMIC-1).....	225.05	12.71
28 46 21 17-1128	EA		120 Volt AC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,319.41	25.44
28 46 21 17-1129	EA		Multi-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,116.65	25.44
28 46 21 17-1130	EA		Single-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,116.65	25.44
28 46 21 17-1131	EA		120 Volt AC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,361.75	25.44
28 46 21 17-1132	EA		Multi-Mode Fiber-Optic Media 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,213.54	25.44
28 46 21 17-1133	EA		120 Volt AC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,413.80	25.44
28 46 21 17-1134	EA		Single-Mode Fiber-Optic Media 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,455.77	25.44
28 46 21 17-1135	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,455.77	25.44
28 46 21 17-1136	EA		220-240 Volt AC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,385.90	25.44
28 46 21 17-1137	EA		220-240 Volt AC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,430.46	25.44
28 46 21 17-1138	EA		220-240 Volt AC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,485.24	25.44
28 46 21 17-1139	EA		120 Volt AC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	950.48	25.44
28 46 21 17-1140	EA		220-240 Volt AC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	950.48	25.44
28 46 21 17-1141	EA		120 Volt AC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	1,010.83	25.44
28 46 21 17-1142	EA		220-240 Volt AC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	1,010.83	25.44
28 46 21 17-1143	EA		120 Volt AC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,049.82	25.44
28 46 21 17-1144	EA		220-240 Volt AC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,049.82	25.44
28 46 21 17-1145	EA		120 Volt AC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,110.16	25.44
28 46 21 17-1146	EA		220-240 Volt AC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,110.16	25.44
28 46 21 17-1147	EA		Dress Plate For CFFT-1 (Notifier DP-CFFT).....	97.86	12.71
28 46 21 17-1148	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	86.10	15.26
28 46 21 17-1149	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	98.45	15.26
28 46 21 17-1150	EA		Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	164.61	15.26
28 46 21 17-1151	EA		WPS Power Amplifier (Notifier DPA3204P).....	561.48	25.44
28 46 21 17-1152	EA		WPS Power Amplifier (Notifier DPA4001P).....	473.28	25.44
28 46 21 17-1153	EA		Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	988.54	25.44
28 46 21 17-1154	EA		120 Volt AC, 125 Watts, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	747.16	25.44
			Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21 17-1155	EA		220-240 Volt AC, 125 Watts, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	747.16	25.44
			Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21 17-1156	EA		Digital Series Distribution Board, Supports One To Four DS-Amp Or DS-AMPE (Notifier DS-DB).....	1,257.78	25.44
28 46 21 17-1157	EA		125 Watts, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watts Amplifier With A DS-XF70V) (Notifier DS-BDA).....	515.06	25.44
28 46 21 17-1158	EA		Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	264.39	25.44
28 46 21 17-1159	EA		Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	264.39	25.44
28 46 21 17-1160	EA		Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	264.39	25.44
28 46 21 17-1161	EA		Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watts, DS Series Transformer (Notifier DS-XF70V).....	115.85	25.44
28 46 21 17-1162	EA		Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	240.52	25.44
28 46 21 17-1163	EA		Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,329.99	25.44
28 46 21 17-1164	EA		Keypad For Digital Voice Command (Notifier DVC-KD).....	406.09	50.86
28 46 21 17-1165	EA		Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	197.72	
28 46 21 17-1166	EA		Fire Fighters Telephone Control With Master Handset (Notifier FFT-7).....	1,441.03	50.86
28 46 21 17-1167	EA		Portable Fireman's Telephone Handset (Notifier FHS).....	126.69	
28 46 21 17-1168	EA		Red, Fireman's Telephone Handset (Notifier FHS-F).....	126.69	
28 46 21 17-1169	EA		Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	354.45	25.44
28 46 21 17-1170	EA		Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	354.45	25.44
28 46 21 17-1171	EA		Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	58.89	7.63
28 46 21 17-1172	EA		Paging Microphone Only (Notifier MIC-1).....	166.42	25.44
28 46 21 17-1173	EA		Firefighter's Telephone Handset (Notifier TELH-1).....	139.23	
28 46 21 17-1174	EA		Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	394.02	25.44
28 46 21 17-1175	EA		Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	394.02	25.44
<b>28 46 21 17-1176</b>			<b>Amplifiers</b> (28 46 21 17-0982)		
28 46 21 17-1177	EA		30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	746.88	25.44
28 46 21 17-1178	EA		100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	1,615.81	25.44
28 46 21 17-1179	EA		120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	1,569.94	25.44
28 46 21 17-1180	EA		Audio Coupling Transformer (Notifier ACT-1).....	124.08	25.44
28 46 21 17-1181	EA		Audio Coupling Transformer For Analog Amplifiers (Notifier ACT-2).....	143.49	25.44
28 46 21 17-1182	EA		Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	143.49	25.44
28 46 21 17-1183	EA		Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	143.49	25.44
28 46 21 17-1184	EA		Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	143.49	25.44

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-1185</b>			<b>FireVoice-25/50 Emergency Voice Evacuation Control Panels</b> (28 46 21 17-0982)		
28 46 21 17-1186	EA		25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	3,250.67	508.68
28 46 21 17-1187	EA		Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	2,373.82	508.68
28 46 21 17-1188	EA		Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	3,003.60	508.68
28 46 21 17-1189	EA		Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	3,827.17	508.68
28 46 21 17-1190	EA		Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	4,205.04	508.68
<b>28 46 21 17-1191</b>			<b>System Printer</b> (28 46 21 17-0982)		
28 46 21 17-1192	EA		80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6).....	1,605.23	25.44
<b>28 46 21 17-1193</b>			<b>Batteries</b> (28 46 21 17-0982)		
28 46 21 17-1194	EA		5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP).....	474.21	25.44
28 46 21 17-1195	EA		7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP).....	352.56	25.44
28 46 21 17-1196	EA		12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP).....	460.18	25.44
28 46 21 17-1197	EA		18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP).....	273.16	25.44
28 46 21 17-1198	EA		26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP).....	377.26	25.44
28 46 21 17-1199	EA		55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	376.38	25.44
28 46 21 17-1200	EA		100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	592.33	25.44
<b>28 46 21 17-1201</b>			<b>Battery Backboxes And Miscellaneous Mechanicals</b> (28 46 21 17-0982)		
28 46 21 17-1202	EA		14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	123.32	20.35
28 46 21 17-1203	EA		24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25).....	188.31	20.35
28 46 21 17-1204	EA		15.6" x 15.5" x 5.152", Mounts Up To Two 26 Amp Hour And Charger, Battery Backbox (Notifier BB-26).....	342.85	101.74
28 46 21 17-1205	EA		Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH).....	167.66	50.86
28 46 21 17-1206	EA		Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH1).....	74.65	12.71
28 46 21 17-1207	EA		Battery Bracket For Two 26 Amp Hour Batteries (Notifier SEISKIT-BB25).....	206.87	20.35
28 46 21 17-1208	EA		Two 26 Amp Hour Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	161.38	20.35
28 46 21 17-1209	EA		Two 12 Amp Hour Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	178.09	20.35
28 46 21 17-1210	EA		Two 55 Amp Hour Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	192.95	20.35
<b>28 46 21 17-1211</b>			<b>Power Supplies And Chargers</b> (28 46 21 17-0982)		
28 46 21 17-1212	EA		120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610).....	1,190.38	38.15
28 46 21 17-1213	EA		220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E).....	1,190.38	38.15
28 46 21 17-1214	EA		Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,135.03	25.44
28 46 21 17-1215	EA		6A Auxiliary Power Supply (Notifier APS-6R).....	606.04	25.44
28 46 21 17-1216	EA		10 Ampere Battery Charger (Notifier BC10A).....	754.03	38.15
28 46 21 17-1217	EA		33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-100).....	445.40	30.52
28 46 21 17-1218	EA		33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-100R).....	445.40	30.52
28 46 21 17-1219	EA		30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-200).....	637.58	30.52
28 46 21 17-1220	EA		30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	637.58	30.52
28 46 21 17-1221	EA		15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	123.28	25.44
28 46 21 17-1222	EA		25 To 120 Ampere Hour Battery Charger (Notifier CHG-120).....	877.44	25.44
28 46 21 17-1223	EA		Mounts XPIQ-PS And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	70.00	12.71
28 46 21 17-1224	EA		Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	109.00	12.71
28 46 21 17-1225	EA		8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	585.45	25.44
28 46 21 17-1226	EA		8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	715.21	76.30
28 46 21 17-1227	EA		Red, 8.0 Amps, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R).....	715.21	76.30
28 46 21 17-1228	EA		8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8).....	814.55	76.30
28 46 21 17-1229	EA		8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E).....	814.55	76.30
28 46 21 17-1230	EA		Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM).....	772.60	38.15
28 46 21 17-1231	EA		Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME).....	772.60	38.15
28 46 21 17-1232	EA		12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12).....	935.07	38.15
28 46 21 17-1233	EA		12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E).....	935.07	38.15
28 46 21 17-1234	EA		12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM).....	970.35	76.30
28 46 21 17-1235	EA		12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME).....	970.35	76.30
28 46 21 17-1236	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	682.72	76.30
28 46 21 17-1237	EA		6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	682.72	76.30
28 46 21 17-1238	EA		8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	735.64	76.30
28 46 21 17-1239	EA		8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	735.64	76.30
28 46 21 17-1240	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	593.59	76.30
28 46 21 17-1241	EA		9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	697.57	76.30
28 46 21 17-1242	EA		Class A Adapter HPFF8/HPFF12 (Notifier HPP31076).....	141.49	12.71
28 46 21 17-1243	EA		Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	874.43	25.44
28 46 21 17-1244	EA		Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	165.98	25.44
<b>28 46 21 17-1245</b>			<b>Network Control Annunciators</b> (28 46 21 17-0982)		
28 46 21 17-1246	EA		Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	1,608.16	76.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1247 EA Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO) .....	66.69	15.26
28 46 21 17-1248 EA Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit) .....	49.93	15.26
<b>28 46 21 17-1249 FIRSTVISION Firefighter's Display (28 46 21 17-0982)</b>		
28 46 21 17-1250 EA ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	12,620.63	508.68
<b>28 46 21 17-1251 FlashScan Addressable Modules (28 46 21 17-0982)</b>		
28 46 21 17-1252 EA Intelligent Addressable Control Module (Notifier FCM-1) .....	147.02	25.44
28 46 21 17-1253 EA Addressable Dual Monitor Module (Notifier FDM-1) .....	162.89	25.44
28 46 21 17-1254 EA Intelligent Addressable Monitor Module (Notifier FMM-1) .....	124.08	25.44
28 46 21 17-1255 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101) .....	111.73	25.44
28 46 21 17-1256 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20) .....	218.47	25.44
28 46 21 17-1257 EA Intelligent Addressable Relay Module (Notifier FRM-1) .....	141.72	25.44
28 46 21 17-1258 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1) .....	182.30	25.44
28 46 21 17-1259 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X) .....	122.32	25.44
<b>28 46 21 17-1260 Addressable Device Bases And Accessories (28 46 21 17-0982)</b>		
28 46 21 17-1261 EA Intelligent Detector Base With Flange (Notifier B710LP).....	43.85	12.71
28 46 21 17-1262 EA Weatherproof Device Housing (Notifier DH400OE-1) .....	360.50	25.44
<b>28 46 21 17-1263 XP6/XP10 Transponder (28 46 21 17-0982)</b>		
28 46 21 17-1264 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1) .....	111.29	25.44
28 46 21 17-1265 EA Six Circuit Supervised Control Module (Notifier XP6-C) .....	513.11	25.44
28 46 21 17-1266 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	618.97	25.44
28 46 21 17-1267 EA Six Relay Control Module (Notifier XP6-R) .....	493.70	25.44
28 46 21 17-1268 EA Ten Input Monitor Module (Notifier XP10-M).....	592.51	25.44
<b>28 46 21 17-1269 LCD Display Annunciators (28 46 21 17-0982)</b>		
28 46 21 17-1270 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80) .....	677.49	76.30
28 46 21 17-1271 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	937.72	76.30
28 46 21 17-1272 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	969.48	76.30
28 46 21 17-1273 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8) .....	658.03	25.44
28 46 21 17-1274 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	352.59	25.44
28 46 21 17-1275 EA Eight Switch Smoke Control Master Module (Notifier SCS-8).....	853.00	25.44
<b>28 46 21 17-1276 ONYX ACM And AEM Series LED Annunciators (28 46 21 17-0982)</b>		
28 46 21 17-1277 EA Remote, Eight Form C Relay Module (Notifier ACM-8R) .....	388.80	25.44
28 46 21 17-1278 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT) .....	676.31	25.44
28 46 21 17-1279 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT) .....	520.17	25.44
28 46 21 17-1280 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	676.31	25.44
28 46 21 17-1281 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT) .....	520.17	25.44
28 46 21 17-1282 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A) .....	520.17	25.44
28 46 21 17-1283 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A) .....	467.24	25.44
28 46 21 17-1284 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	520.17	25.44
28 46 21 17-1285 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A) .....	467.24	25.44
<b>28 46 21 17-1286 Graphic Annunciator - Lamp Driver Modules (28 46 21 17-0982)</b>		
28 46 21 17-1287 EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B) .....	230.54	50.86
28 46 21 17-1288 EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	249.06	50.86
28 46 21 17-1289 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B).....	288.61	63.59
28 46 21 17-1290 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	312.42	63.59
28 46 21 17-1291 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B) .....	497.37	89.02
28 46 21 17-1292 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	88.30	15.26
28 46 21 17-1293 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B).....	155.11	50.86
28 46 21 17-1294 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB) .....	126.64	12.71
28 46 21 17-1295 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B).....	189.07	50.86
28 46 21 17-1296 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	324.77	63.59
28 46 21 17-1297 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	233.40	12.71
28 46 21 17-1298 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	521.19	89.02
28 46 21 17-1299 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR).....	391.67	15.26
28 46 21 17-1300 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB) .....	154.88	20.35
28 46 21 17-1301 EA Annunciator Key Switch (Notifier AKS-1B).....	75.61	7.63
28 46 21 17-1302 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D) .....	88.35	25.44
28 46 21 17-1303 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32) .....	467.24	25.44
28 46 21 17-1304 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24) .....	142.94	5.09
28 46 21 17-1305 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48) .....	178.22	5.09
28 46 21 17-1306 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32) .....	386.96	25.44
28 46 21 17-1307 EA Lamp Driver Module (Notifier LDM-R32).....	699.81	25.44
28 46 21 17-1308 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L) .....	649.68	25.44
28 46 21 17-1309 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48) .....	181.01	5.09
28 46 21 17-1310 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	151.21	15.26
28 46 21 17-1311 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D).....	94.58	15.26



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1312 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR) .....	94.58	15.26
<b>28 46 21 17-1313 Network Gateways (28 46 21 17-0982)</b>		
28 46 21 17-1314 EA Common Alerting Protocol Gateway (Notifier CAP-GW) .....	2,603.96	25.44
28 46 21 17-1315 EA PC Version, Receivers Gateway (Notifier DACR-GW) .....	2,037.64	25.44
28 46 21 17-1316 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF) .....	1,944.80	25.44
28 46 21 17-1317 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF) .....	2,176.90	25.44
28 46 21 17-1318 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF) .....	2,418.28	25.44
28 46 21 17-1319 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W) .....	1,851.96	25.44
28 46 21 17-1320 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS- NCM-WMF) .....	1,898.38	25.44
28 46 21 17-1321 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS- NCM-WSF) .....	2,135.12	25.44
28 46 21 17-1322 EA Modbus Gateway (Notifier MODBUS-GW) .....	2,037.64	25.44
28 46 21 17-1323 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW) .....	2,480.98	16.79
28 46 21 17-1324 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS) .....	3,696.26	16.79
28 46 21 17-1325 EA 1920x1080P Wide Screen (Notifier MON-42LCDW) .....	11,718.56	16.79
28 46 21 17-1326 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD) .....	484.80	38.15
28 46 21 17-1327 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD) .....	879.37	38.15
28 46 21 17-1328 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD) .....	1,278.58	38.15
28 46 21 17-1329 EA Mass Notification Voice Paging (Notifier NOTIFY-IP) .....	974.82	
28 46 21 17-1330 EA Non UL Listed Applications, Mass Notification Voice Paging (Notifier NOTIFY-IP-NOUL) .....	974.82	
28 46 21 17-1331 EA Embedded NFN Gateway (Notifier NFN-GW-EM) .....	1,938.68	25.44
28 46 21 17-1332 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F) .....	1,938.68	25.44
28 46 21 17-1333 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW- PC-HNMF) .....	2,966.04	25.44
28 46 21 17-1334 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW- PC-HNSF) .....	3,458.09	25.44
28 46 21 17-1335 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW) .....	2,966.04	25.44
28 46 21 17-1336 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W) .....	1,938.68	25.44
28 46 21 17-1337 EA E-Mail Option For ONYXworks (Notifier ONYX-NOTIFY) .....	974.82	
28 46 21 17-1338 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER) .....	974.82	
28 46 21 17-1339 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS) .....	18,688.65	610.41
28 46 21 17-1340 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW) .....	3,917.07	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1341 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF) .....	3,917.07	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1342 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F) .....	906.84	25.44
28 46 21 17-1343 EA Wire, Standard Network Repeater Board (Notifier RPT-W) .....	736.95	25.44
28 46 21 17-1344 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF) .....	882.71	25.44
28 46 21 17-1345 EA Signaling Line Circuit Integration Module (Notifier SLC-IM) .....	974.62	25.44
28 46 21 17-1346 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW) .....	2,037.64	25.44
28 46 21 17-1347 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS) .....	1,684.84	25.44
28 46 21 17-1348 EA Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3) .....	1,856.80	
<b>28 46 21 17-1349 NOTI-FIRE-NET Network Components (28 46 21 17-0982)</b>		
28 46 21 17-1350 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3) .....	1,938.68	25.44
28 46 21 17-1351 EA Fiber Optic Network Communications Module (Notifier NCM-F) .....	868.62	25.44
28 46 21 17-1352 EA NOTI-FIRE-NET Web Server (Notifier NWS) .....	1,938.68	25.44
28 46 21 17-1353 EA Wired Network Communications Module (Notifier NCM-W) .....	828.04	25.44
28 46 21 17-1354 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit) .....	85.51	12.71
<b>28 46 21 17-1355 FireWarden Addressable Fire Panels (28 46 21 17-0982)</b>		
28 46 21 17-1356 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50) .....	1,859.81	508.68
28 46 21 17-1357 EA Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100) .....	2,172.98	508.68
28 46 21 17-1358 EA Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C) .....	2,233.55	254.33
28 46 21 17-1359 EA Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E) .....	2,233.55	254.33
28 46 21 17-1360 EA Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R) .....	2,233.55	254.33
<b>28 46 21 17-1361 FireWarden Accessories (28 46 21 17-0982)</b>		
28 46 21 17-1362 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100) .....	168.21	38.15
28 46 21 17-1363 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T) .....	167.28	38.15
<b>28 46 21 17-1364 FireWarden Devices (28 46 21 17-0982)</b>		
28 46 21 17-1365 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO) .....	121.43	25.44
28 46 21 17-1366 EA Intelligent Addressable Control Module (Notifier NC-100) .....	142.60	25.44
28 46 21 17-1367 EA Intelligent Addressable Relay Module (Notifier NC-100R) .....	137.31	25.44





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1368 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	298.18	38.15
28 46 21 17-1369 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R).....	356.31	38.15
28 46 21 17-1370 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	137.31	25.44
28 46 21 17-1371 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	145.11	38.15
28 46 21 17-1372 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H).....	145.11	38.15
28 46 21 17-1373 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R).....	145.11	38.15
28 46 21 17-1374 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	190.98	38.15
28 46 21 17-1375 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	119.67	25.44
28 46 21 17-1376 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	109.52	25.44
28 46 21 17-1377 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	158.92	25.44
28 46 21 17-1378 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100).....	151.28	38.15
28 46 21 17-1379 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100).....	177.01	25.44
28 46 21 17-1380 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6).....	604.86	25.44
<b>28 46 21 17-1381 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories <sup>(28 46 21 17-0982)</sup></b>		
28 46 21 17-1382 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,254.96	406.94
28 46 21 17-1383 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404).....	1,368.76	406.94
28 46 21 17-1384 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFB-2402E).....	972.88	127.17
28 46 21 17-1385 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFB-2404E).....	1,092.64	127.17
28 46 21 17-1386 EA Class A Converter Module (Notifier CAC-4).....	319.17	25.44
28 46 21 17-1387 EA Optional Internal Dress Panel For SFB-2402 And SFB-2404 Only (Notifier DP-3-B).....	108.51	15.26
28 46 21 17-1388 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	110.36	15.26
28 46 21 17-1389 EA Remote Zone Annunciator (Notifier RZA-4X).....	163.57	38.15
<b>28 46 21 17-1390 SFP-5UD 5 Zone Control Panels And Accessories <sup>(28 46 21 17-0982)</sup></b>		
28 46 21 17-1391 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	1,895.10	508.68
28 46 21 17-1392 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	2,937.20	381.51
28 46 21 17-1393 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	1,941.11	254.33
28 46 21 17-1394 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	1,941.11	254.33
28 46 21 17-1395 EA Class A Converter Module (Notifier N-CAC-5X).....	319.17	25.44
28 46 21 17-1396 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE).....	128.00	15.26
<b>28 46 21 17-1397 SFP-10UD 10 Zone Control Panels And Accessories <sup>(28 46 21 17-0982)</sup></b>		
28 46 21 17-1398 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	3,626.92	508.68
28 46 21 17-1399 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	2,713.45	381.51
28 46 21 17-1400 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	2,142.10	508.68
28 46 21 17-1401 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	3,222.13	508.68
28 46 21 17-1402 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	530.16	76.30
<b>28 46 21 17-1403 Smoke Detectors <sup>(28 46 21 17-0982)</sup></b>		
28 46 21 17-1404 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	203.33	38.15
28 46 21 17-1405 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	332.13	38.15
28 46 21 17-1406 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	851.42	38.15
28 46 21 17-1407 EA Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851).....	167.16	38.15
28 46 21 17-1408 EA Remote Test Capable, Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851R).....	174.71	38.15
28 46 21 17-1409 EA Intelligent Addressable Thermal Detector (Notifier FST-851).....	140.70	38.15
28 46 21 17-1410 EA Intelligent Addressable High Temperature Thermal Detector (Notifier FST-851H).....	140.70	38.15
28 46 21 17-1411 EA Intelligent Addressable Rate-Of-Rise Thermal Detector (Notifier FST-851R).....	140.70	38.15
28 46 21 17-1412 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	158.00	38.15
Note: For use with DNR(W) duct detector housing.		
28 46 21 17-1413 EA Filters For Harsh Detector (Notifier RF-FTX).....	19.15	
28 46 21 17-1414 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	123.86	25.44
<b>28 46 21 17-1415 Pull Stations <sup>(28 46 21 17-0982)</sup></b>		
28 46 21 17-1416 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	26.89	5.09
28 46 21 17-1417 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2).....	58.86	12.71
28 46 21 17-1418 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R).....	58.86	12.71
28 46 21 17-1419 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1).....	82.89	25.44
28 46 21 17-1420 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	89.85	25.44
28 46 21 17-1421 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS).....	117.24	25.44
28 46 21 17-1422 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R).....	82.89	25.44
28 46 21 17-1423 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS).....	93.10	25.44
28 46 21 17-1424 EA Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL).....	93.10	25.44
28 46 21 17-1425 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR).....	93.10	25.44
28 46 21 17-1426 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1).....	88.92	25.44
28 46 21 17-1427 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	94.96	25.44
28 46 21 17-1428 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	641.29	30.52
28 46 21 17-1429 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	76.05	25.44
28 46 21 17-1430 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	96.20	25.44

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1431 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L) .....	87.25	25.44
28 46 21 17-1432 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB) .....	188.95	30.52
28 46 21 17-1433 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS) .....	117.70	25.44
28 46 21 17-1434 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR) .....	104.24	25.44
28 46 21 17-1435 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX) .....	159.81	25.44
28 46 21 17-1436 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE) .....	40.82	5.09
<b>28 46 21 17-1437 Rate Compensation Heat Detectors (28 46 21 17-0982)</b>		
28 46 21 17-1438 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135) .....	153.93	38.15
28 46 21 17-1439 EA 194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194) .....	153.93	38.15
<b>28 46 21 17-1440 FM Series Door Releases (28 46 21 17-0982)</b>		
28 46 21 17-1441 EA 1/2" Door Holder Spacer (Notifier FM900-50) .....	25.85	7.63
28 46 21 17-1442 EA 3/4" Door Holder Spacer (Notifier FM900-75) .....	25.85	7.63
28 46 21 17-1443 EA 1" Door Holder Spacer (Notifier FM900-100) .....	25.85	7.63
28 46 21 17-1444 EA Door Holder Extension Kit (Notifier FM900) .....	27.17	7.63
28 46 21 17-1445 EA 90 Degree Door Holder Extension Kit (Notifier FM900-Z) .....	27.61	7.63
28 46 21 17-1446 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980) .....	183.04	38.15
28 46 21 17-1447 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996) .....	160.99	38.15
28 46 21 17-1448 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998) .....	160.99	38.15
<b>28 46 21 17-1449 Multicriteria Fire Detector (28 46 21 17-0982)</b>		
28 46 21 17-1450 EA Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851) .....	280.55	38.15
28 46 21 17-1451 EA Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851) .....	260.12	38.15
28 46 21 17-1452 EA Low Profile Intelligent Addressable Photoelectric Smoke Detector With Built-In 135°F Fixed Temperature Thermal Device (Notifier FSP-851T) .....	172.85	38.15
<b>28 46 21 17-1453 Modules (28 46 21 17-0982)</b>		
28 46 21 17-1454 EA Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1) .....	313.60	25.44
28 46 21 17-1455 EA Addressable Firephone Control Module (Notifier FTM-1) .....	188.26	25.44
<b>28 46 21 17-1456 DH Series Door Releases (28 46 21 17-0982)</b>		
28 46 21 17-1457 EA Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC) .....	163.57	38.15
28 46 21 17-1458 EA Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB) .....	173.22	38.15
28 46 21 17-1459 EA Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD) .....	183.07	38.15
28 46 21 17-1460 EA Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC) .....	180.28	38.15
28 46 21 17-1461 EA Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB) .....	188.64	38.15
28 46 21 17-1462 EA Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD) .....	195.14	38.15
28 46 21 17-1463 EA Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC) .....	163.57	38.15
28 46 21 17-1464 EA Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB) .....	172.85	38.15
28 46 21 17-1465 EA Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD) .....	183.07	38.15
28 46 21 17-1466 EA Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1) .....	205.35	38.15
28 46 21 17-1467 EA Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1) .....	218.35	38.15
28 46 21 17-1468 EA Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1) .....	233.20	38.15
28 46 21 17-1469 EA Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2) .....	236.91	38.15
28 46 21 17-1470 EA Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2) .....	251.77	38.15
28 46 21 17-1471 EA Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2) .....	270.34	38.15
28 46 21 17-1472 EA .5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC) .....	19.09	5.09
28 46 21 17-1473 EA .5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B) .....	19.09	5.09
28 46 21 17-1474 EA .5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D) .....	20.58	5.09
28 46 21 17-1475 EA 1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC) .....	19.09	5.09
28 46 21 17-1476 EA 1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B) .....	19.09	5.09
28 46 21 17-1477 EA 1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D) .....	20.58	5.09
28 46 21 17-1478 EA 1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC) .....	20.21	5.09
28 46 21 17-1479 EA 1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC) .....	20.21	5.09
28 46 21 17-1480 EA 1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B) .....	20.58	5.09
28 46 21 17-1481 EA 1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D) .....	21.69	5.09
28 46 21 17-1482 EA 2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC) .....	21.69	5.09
28 46 21 17-1483 EA 2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC) .....	21.69	5.09
28 46 21 17-1484 EA 2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B) .....	22.25	5.09
28 46 21 17-1485 EA 2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D) .....	22.62	5.09
28 46 21 17-1486 EA 3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC) .....	22.62	5.09
28 46 21 17-1487 EA 3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B) .....	23.73	5.09
28 46 21 17-1488 EA 3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D) .....	23.73	5.09
28 46 21 17-1489 EA 4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC) .....	24.11	5.09
28 46 21 17-1490 EA 4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC) .....	24.11	5.09
28 46 21 17-1491 EA 4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB) .....	25.03	5.09
28 46 21 17-1492 EA 4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD) .....	27.82	5.09
28 46 21 17-1493 EA 5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC) .....	25.03	5.09



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				28 46 21 17-1494 EA 5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	26.15	5.09
				28 46 21 17-1495 EA 5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	27.82	5.09
				28 46 21 17-1496 EA Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCPD).....	26.96	7.63
				28 46 21 17-1497 EA Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	27.70	7.63
				28 46 21 17-1498 EA Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	30.11	7.63
				28 46 21 17-1499 EA Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	47.38	7.63
				28 46 21 17-1500 EA Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	50.35	7.63
				28 46 21 17-1501 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD).....	53.32	7.63
				28 46 21 17-1502 EA Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBC).....	45.49	12.71
				28 46 21 17-1503 EA Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBD).....	47.72	12.71
				28 46 21 17-1504 EA Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD).....	50.88	12.71
				28 46 21 17-1505 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	250.67	
				28 46 21 17-1506 EA Two Piece Extension Wrench (Notifier DHW).....	2.79	
<b>28 46 21 17-1507</b>				<b>First Command</b> (28 46 21 17-0982)		
				28 46 21 17-1508 EA Black, 120 Volt AC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100).....	5,153.12	635.85
				28 46 21 17-1509 EA Black, 220-240 Volt AC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E).....	5,153.12	635.85
				28 46 21 17-1510 EA Black, 120 Volt AC, 50 Watts, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA).....	1,360.26	50.86
				28 46 21 17-1511 EA Black, 220-240 Volt AC, 50 Watts, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,360.26	50.86
				28 46 21 17-1512 EA Black, 120 Volt AC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	2,466.91	50.86
				28 46 21 17-1513 EA Black, 220-240 Volt AC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	2,466.91	50.86
				28 46 21 17-1514 EA 50 Watts, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt).....	538.27	25.44
				28 46 21 17-1515 EA 50 Watts, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt).....	538.27	25.44
				28 46 21 17-1516 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4).....	367.44	25.44
				28 46 21 17-1517 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6).....	515.06	25.44
				28 46 21 17-1518 EA Standalone Firefighter Telephone System (Notifier NFC-FFT).....	1,832.81	50.86
				Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
				28 46 21 17-1519 EA Local Operator Console (Notifier NFC-LOC).....	1,773.39	50.86
				Note: Includes built-in microphone, message and zone control switches, black.		
				28 46 21 17-1520 EA Black, Remote Microphone (Notifier NFC-RM).....	505.95	
				28 46 21 17-1521 EA Remote Page Unit (Notifier NFC-RPU).....	1,503.23	50.86
				Note: Includes built-in microphone, message control switches, black.		
				28 46 21 17-1522 EA Remote Telephone Zone Module (Notifier NFC-RTZM).....	678.46	25.44
				28 46 21 17-1523 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V).....	280.17	25.44
				28 46 21 17-1524 EA Firefighters Phone Jack (Notifier N-FPJ).....	128.52	7.63
				28 46 21 17-1525 EA Thumbblatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH).....	37.54	7.63
				28 46 21 17-1526 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B).....	113.15	15.26
<b>28 46 21 17-1527</b>				<b>LED Displays</b> (28 46 21 17-0982)		
				28 46 21 17-1528 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	1,221.54	30.52
				28 46 21 17-1529 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW).....	2,068.17	40.69
				28 46 21 17-1530 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT).....	2,123.87	40.69
				28 46 21 17-1531 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8).....	1,427.57	40.69
				28 46 21 17-1532 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16).....	2,170.29	40.69
				28 46 21 17-1533 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V).....	2,123.87	40.69
<b>28 46 21 17-1534</b>				<b>Control Relays</b> (28 46 21 17-0982)		
				28 46 21 17-1535 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR).....	57.01	12.71
				28 46 21 17-1536 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T).....	45.86	12.71
				28 46 21 17-1537 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR).....	147.41	25.44
				28 46 21 17-1538 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T).....	90.43	12.71
				28 46 21 17-1539 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T).....	107.14	12.71
				28 46 21 17-1540 EA 24 Volt DC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C).....	132.56	25.44
				28 46 21 17-1541 EA 120 Volt AC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	132.56	25.44
				28 46 21 17-1542 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR).....	86.14	25.44
				28 46 21 17-1543 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T).....	49.11	12.71
				28 46 21 17-1544 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR).....	166.91	25.44
				28 46 21 17-1545 EA 24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	65.71	25.44
				28 46 21 17-1546 EA 12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	65.71	25.44
				28 46 21 17-1547 EA 9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	65.71	25.44
<b>28 46 21 17-1548</b>				<b>Gamewell-FCI Fire Control Instruments</b> (28 46 21 17-0982)		
<b>28 46 21 17-1549</b>				<b>7100 Series And NetSOLO®</b> (28 46 21 17-1548)		
<b>28 46 21 17-1550</b>				<b>7100 Compact Analog Addressable Fire Alarm Control Panels</b> (28 46 21 17-1549)		
				28 46 21 17-1551 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M).....	840.26	305.21
				28 46 21 17-1552 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2).....	3,443.93	508.68
				28 46 21 17-1553 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	3,711.45	508.68
				28 46 21 17-1554 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	3,443.93	508.68

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1555 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E) .....	3,711.45	508.68
28 46 21 17-1556 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1) .....	925.98	
28 46 21 17-1557 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D) .....	1,104.96	
28 46 21 17-1558 EA Analog Loop Unit (Gamewell-FCI ALU) .....	1,104.96	50.86
<b>28 46 21 17-1559 NetSOLO® Intelligent Network</b> (28 46 21 17-1549)		
28 46 21 17-1560 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO) .....	1,222.71	50.86
Note: Mounted in 7100 panel.		
28 46 21 17-1561 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP) .....	976.85	50.86
Note: Mounted in 7100 panel.		
<b>28 46 21 17-1562 Components And Accessories</b> (28 46 21 17-1549)		
28 46 21 17-1563 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100) .....	609.47	38.15
28 46 21 17-1564 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100) .....	474.77	50.86
28 46 21 17-1565 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1) .....	848.74	50.86
28 46 21 17-1566 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM) .....	357.96	50.86
28 46 21 17-1567 EA Enclosure Box (Gamewell-FCI EN-7100) .....	323.10	101.74
28 46 21 17-1568 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2) .....	872.28	25.44
<b>28 46 21 17-1569 E3 Series® Basic System</b> (28 46 21 17-1548)		
28 46 21 17-1570 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3) .....	844.45	50.86
28 46 21 17-1571 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3) .....	733.65	50.86
28 46 21 17-1572 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3) .....	844.45	50.86
28 46 21 17-1573 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3) .....	733.65	50.86
28 46 21 17-1574 EA LCD Keypad Display (Gamewell-FCI LCD-E3) .....	529.57	50.86
28 46 21 17-1575 EA Power Supply Module (Gamewell-FCI PM-9) .....	685.64	50.86
28 46 21 17-1576 EA Transponder 9 Ampere Power Supply (Gamewell-FCI PM-9 INX) .....	581.13	50.86
28 46 21 17-1577 EA Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A) .....	561.80	25.44
28 46 21 17-1578 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3) .....	341.82	50.86
28 46 21 17-1579 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO) .....	871.23	50.86
28 46 21 17-1580 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP) .....	734.26	50.86
28 46 21 17-1581 EA Local Operating Console (Gamewell-FCI 1100-0455) .....	492.61	38.15
28 46 21 17-1582 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505) .....	1,543.63	38.15
28 46 21 17-1583 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70) .....	631.26	50.86
28 46 21 17-1584 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326) .....	1,869.49	50.86
28 46 21 17-1585 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1) .....	478.93	101.74
28 46 21 17-1586 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC) .....	366.61	101.74
28 46 21 17-1587 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP) .....	82.06	25.44
28 46 21 17-1588 EA Programmable Switch Module (Gamewell-FCI ASM-16) .....	450.31	50.86
28 46 21 17-1589 EA LED Driver module (Gamewell-FCI ANU-48) .....	450.31	50.86
28 46 21 17-1590 EA Network Graphic Annunciator (Gamewell-FCI NGA) .....	1,296.71	38.15
<b>28 46 21 17-1591 Addressable Devices, Module, Pulls And Accessories</b> (28 46 21 17-1548)		
<b>28 46 21 17-1592 Velociti® Series Sensors And Bases</b> (28 46 21 17-1591)		
28 46 21 17-1593 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F) .....	153.54	38.15
28 46 21 17-1594 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F) .....	156.37	38.15
28 46 21 17-1595 EA Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F) .....	164.85	38.15
28 46 21 17-1596 EA Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F) .....	130.94	38.15
28 46 21 17-1597 EA Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F) .....	135.65	38.15
28 46 21 17-1598 EA Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F) .....	130.94	38.15
28 46 21 17-1599 EA Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F) .....	184.63	38.15
28 46 21 17-1600 EA Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS) .....	382.45	38.15
28 46 21 17-1601 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF) .....	339.12	63.59
28 46 21 17-1602 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF) .....	376.80	63.59
28 46 21 17-1603 EA Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB) .....	199.70	
28 46 21 17-1604 EA Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF) .....	40.51	12.71
28 46 21 17-1605 EA Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F) .....	410.71	38.15
28 46 21 17-1606 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF) .....	84.31	12.71
28 46 21 17-1607 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F) .....	1,424.29	76.30
<b>28 46 21 17-1608 Velociti® Series Modules And Pull Station</b> (28 46 21 17-1591)		
28 46 21 17-1609 EA Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F) .....	110.68	25.44
28 46 21 17-1610 EA Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF) .....	170.49	25.44
28 46 21 17-1611 EA Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F) .....	120.10	25.44
28 46 21 17-1612 EA Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF) .....	163.90	25.44
28 46 21 17-1613 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF) .....	138.94	25.44
28 46 21 17-1614 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF) .....	143.65	25.44
28 46 21 17-1615 EA Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF) .....	208.66	50.86
28 46 21 17-1616 EA Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF) .....	147.88	25.44
28 46 21 17-1617 EA Telephone Filters (Gamewell-FCI AOM-TEL-FL) .....	24.31	5.09





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-1618</b>				<b>Components And Accessories</b> <small>(28 46 21 17-1591)</small>		
28 46 21 17-1619	EA			Remote LED Annunciator Alarm (Gamewell-FCI RA400Z).....	64.24	20.35
				Note: Mounts on single gang box.		
28 46 21 17-1620	EA			Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	32.12	10.18
28 46 21 17-1621	EA			>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	34.01	10.18
28 46 21 17-1622	EA			>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	40.98	12.71
28 46 21 17-1623	EA			>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	63.49	15.26
28 46 21 17-1624	EA			Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451).....	93.44	20.35
				Note: Mounts on single gang box.		
<b>28 46 21 17-1625</b>				<b>Fixed And Rate of Rise Heat Detectors</b> <small>(28 46 21 17-1591)</small>		
28 46 21 17-1626	EA			135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P).....	92.31	38.15
28 46 21 17-1627	EA			194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	92.31	38.15
28 46 21 17-1628	EA			135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603).....	92.31	38.15
28 46 21 17-1629	EA			194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604).....	92.31	38.15
<b>28 46 21 17-1630</b>				<b>NAC Expander/Power Supply</b> <small>(28 46 21 17-1591)</small>		
28 46 21 17-1631	EA			FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	1,492.11	406.94
28 46 21 17-1632	EA			6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,313.13	406.94
28 46 21 17-1633	EA			9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	1,402.62	406.94
<b>28 46 21 17-1634</b>				<b>Batteries And Accessories</b> <small>(28 46 21 17-1548)</small>		
28 46 21 17-1635	EA			B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A).....	212.88	25.44
28 46 21 17-1636	EA			B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A).....	519.97	25.44
28 46 21 17-1637	EA			B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A).....	118.68	25.44
28 46 21 17-1638	EA			BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653).....	272.24	50.86
28 46 21 17-1639	EA			BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654).....	272.24	50.86
28 46 21 17-1640	EA			12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	244.92	50.86
<b>28 46 21 17-1641</b>				<b>Electronic Door Holders</b> <small>(28 46 21 17-1548)</small>		
				Note: Rixson products.		
28 46 21 17-1642	EA			XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	37.87	5.09
28 46 21 17-1643	EA			FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder (Gamewell-FCI 140-90000).....	302.38	38.15
28 46 21 17-1644	EA			FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001).....	405.05	38.15
28 46 21 17-1645	EA			FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	200.08	38.15
28 46 21 17-1646	EA			FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	191.60	38.15
28 46 21 17-1647	EA			FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004).....	200.08	38.15
28 46 21 17-1648	EA			FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005).....	199.70	38.15
<b>28 46 21 17-1649</b>				<b>SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes</b> <small>(28 46 21 17-1548)</small>		
				See CSI section 28 46 21 17-1838 for devices.		
<b>28 46 21 17-1650</b>				<b>SpectrAlert® Advance Accessories</b> <small>(28 46 21 17-1548)</small>		
				See CSI section 28 46 21 17-1838 for backboxes, 28 46 21 17-2103 for backboxes.		
<b>28 46 21 17-1651</b>				<b>Fire Alarm Programming</b> <small>(28 46 21 17-1548)</small>		
				Note: For device replacement projects only. Do not use these tasks on projects where a fire alarm panel is replaced.		
28 46 21 17-1652	EA			Program And Test Up To 5 Fire Alarm Devices.....	500.00	
28 46 21 17-1653	EA			Program And Test >5 To 20 Fire Alarm Devices.....	1,000.00	
28 46 21 17-1654	EA			Program And Test >20 To 50 Fire Alarm Devices.....	2,000.00	
<b>28 46 21 17-1655</b>				<b>Fire-Lite Fire Alarm</b> <small>(28 46 21 17-0981)</small>		
<b>28 46 21 17-1656</b>				<b>Addressable Control Panels</b> <small>(28 46 21 17-1655)</small>		
28 46 21 17-1657	EA			25 Point Intelligent Control (Fire Lite MS-25).....	1,559.56	508.68
28 46 21 17-1658	EA			50 Point Intelligent Control (Fire Lite MS-9050UD).....	1,691.49	508.68
28 46 21 17-1659	EA			198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	2,403.50	508.68
28 46 21 17-1660	EA			636-Point Intelligent Control (Fire Lite MS-9600LS).....	3,490.70	508.68
28 46 21 17-1661	EA			636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	3,364.83	508.68
28 46 21 17-1662	EA			IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	402.05	
<b>28 46 21 17-1663</b>				<b>Silent Knight Fire Alarm</b> <small>(28 46 21 17-0981)</small>		
28 46 21 17-1664	EA			Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS).....	3,460.13	254.33
28 46 21 17-1665	EA			Supervised Remote Command Unit (Silent Knight EVS-RCU).....	1,453.29	152.60
28 46 21 17-1666	EA			50 Watt Amplifier (Silent Knight EVS-50W).....	1,017.14	101.74
28 46 21 17-1667	EA			125 Watt Amplifier (Silent Knight EVS-125W).....	1,782.08	101.74
28 46 21 17-1668	EA			Voice Evacuation System (Silent Knight SKE-450).....	1,706.27	101.74
28 46 21 17-1669	EA			Fire Fighters Telephone (Silent Knight SK-FFT).....	1,421.95	101.74



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1670	EA		Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL).....	1,473.59	152.60
28 46 21 17-1671	EA		Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808).....	1,091.60	101.74
28 46 21 17-1672	EA		Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700).....	843.25	101.74
28 46 21 17-1673	EA		Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600).....	732.27	101.74
28 46 21 17-1674	EA		Combination Fire And CO Detector (Silent Knight SK-FIRE-CO).....	235.73	38.15
28 46 21 17-1675	EA		Photoelectric Detector (Silent Knight SK-PHOTO).....	140.48	38.15
28 46 21 17-1676	EA		Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	147.11	38.15
28 46 21 17-1677	EA		Ionization Smoke Detector (Silent Knight SK-ION).....	147.86	38.15
28 46 21 17-1678	EA		135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT).....	130.72	38.15
28 46 21 17-1679	EA		190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT).....	136.77	38.15
28 46 21 17-1680	EA		135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR).....	139.01	38.15
28 46 21 17-1681	EA		Sounder Base (Silent Knight B200SR).....	80.01	12.71
28 46 21 17-1682	EA		Intelligent Sounder Base (Silent Knight B200S).....	84.44	12.71
28 46 21 17-1683	EA		Isolator Base (Silent Knight B224BI).....	67.49	12.71
28 46 21 17-1684	EA		Relay Base (Silent Knight B224RB).....	68.22	12.71
28 46 21 17-1685	EA		Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE).....	150.17	38.15
28 46 21 17-1686	EA		Photoelectric Duct Detector (Silent Knight SK-DUCT).....	232.96	38.15
28 46 21 17-1687	EA		Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM).....	785.72	38.15
28 46 21 17-1688	EA		Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T).....	895.38	38.15
28 46 21 17-1689	EA		Dual Monitor Module (Silent Knight SK-MONITOR-2).....	175.74	38.15
28 46 21 17-1690	EA		Supervised Control Module (Silent Knight SK-CONTROL).....	148.74	38.15
28 46 21 17-1691	EA		Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	471.63	50.86
28 46 21 17-1692	EA		Relay Control Module (Silent Knight SK-RELAY).....	124.73	25.44
28 46 21 17-1693	EA		Six Relay Control Module (Silent Knight SK-RELAY-6).....	456.55	50.86
28 46 21 17-1694	EA		Zone Interface Module (Silent Knight SK-ZONE).....	151.59	38.15
28 46 21 17-1695	EA		Six Zone Interface Module (Silent Knight SK-ZONE-6).....	542.86	50.86
28 46 21 17-1696	EA		Monitor Module (Silent Knight SK-MONITOR).....	132.36	38.15
28 46 21 17-1697	EA		10 Input Monitor Module (Silent Knight SK-MON-10).....	526.43	50.86
28 46 21 17-1698	EA		Monitor Module (Silent Knight SK-MINIMON).....	124.25	38.15
28 46 21 17-1699	EA		Fault Isolator Module (Silent Knight SK-ISO).....	136.77	38.15
28 46 21 17-1700	EA		Addressable Heat Sensor (Silent Knight SD505-AHS).....	134.58	38.15
28 46 21 17-1701	EA		Analog Ionization Smoke Detector (Silent Knight SD505-AIS).....	145.03	38.15
28 46 21 17-1702	EA		Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS).....	136.77	38.15
28 46 21 17-1703	EA		6" Addressable Sounder Base (Silent Knight SD505-6SB).....	97.00	12.71
28 46 21 17-1704	EA		6" Addressable Relay Base (Silent Knight SD505-6RB).....	91.82	12.71
28 46 21 17-1705	EA		6" Isolator Base (Silent Knight SD505-6IB).....	83.72	12.71
28 46 21 17-1706	EA		Addressable Input Module (Silent Knight SD500-AIM).....	136.05	38.15
28 46 21 17-1707	EA		Addressable Notification Module (Silent Knight SD500-ANM).....	164.37	38.15
28 46 21 17-1708	EA		Addressable Relay Module (Silent Knight SD500-ARM).....	148.74	38.15
28 46 21 17-1709	EA		SLC Annunciator Driver Module (Silent Knight SD500-LED).....	551.26	76.30
28 46 21 17-1710	EA		Loop Isolation Module (Silent Knight SD500-LIM).....	141.21	38.15
28 46 21 17-1711	EA		Addressable Mini Input Module (Silent Knight SD500-MIM).....	109.14	25.44
28 46 21 17-1712	EA		Single Action Addressable Pull Station (Silent Knight SD500-PS).....	137.52	25.44
28 46 21 17-1713	EA		Dual Action Addressable Pull Station (Silent Knight SD500-PSDA).....	131.83	25.44
28 46 21 17-1714	EA		Back Box (Silent Knight SK-PSSMBB).....	64.48	20.35
28 46 21 17-1715	EA		Smoke Detector Module (Silent Knight SD500-SDM).....	155.84	38.15
28 46 21 17-1716	EA		Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	38.93	12.71
28 46 21 17-1717	EA		Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	38.93	12.71
28 46 21 17-1718	EA		Addressable Duct Housing (Silent Knight SD505-DUCT).....	242.67	38.15
28 46 21 17-1719	EA		Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR).....	310.60	38.15
28 46 21 17-1720	EA		Addressable Duct Detector Test Switch (Silent Knight SD505-DTS).....	139.73	38.15
28 46 21 17-1721	EA		Intelligent Power Module (Silent Knight 5895XL).....	791.18	101.74
28 46 21 17-1722	EA		Addressable Power Supply (Silent Knight 5496).....	554.00	76.30
28 46 21 17-1723	EA		Relay Interface Board (Silent Knight 5883).....	210.29	25.44
28 46 21 17-1724	EA		Remote LED Annunciator (Silent Knight 5865-3).....	431.89	50.86
28 46 21 17-1725	EA		Remote LED Annunciator (Silent Knight 5865-4).....	486.43	50.86
28 46 21 17-1726	EA		Remote LCD Annunciator (Silent Knight SK-5860).....	473.17	76.30
28 46 21 17-1727	EA		Serial/Parallel Printer Interface (Silent Knight 5824).....	296.26	25.44
28 46 21 17-1728	EA		LED Input/Output Module (Silent Knight / IntelliKnight 5880).....	351.65	38.15
28 46 21 17-1729	EA		Addressable Pull Station (Silent Knight SK-Pull-DA/SA).....	131.83	25.44
28 46 21 17-1730	EA		Digital Fire Communicator with Cabinet (Silent Knight SK-5104).....	453.98	76.30
28 46 21 17-1731	EA		Communicator (Silent Knight IPGSM-4G).....	644.34	50.86
28 46 21 17-1732	EA		Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208).....	1,027.97	101.74
28 46 21 17-1733	EA		10 Zone Expander (Silent Knight SK-5217).....	286.56	25.44
28 46 21 17-1734	EA		Remote Annunciator (Silent Knight SK-5235).....	298.61	50.86
28 46 21 17-1735	EA		Status Display Module (Silent Knight 5280).....	91.44	25.44
28 46 21 17-1736	EA		Serial/Parallel Module (Silent Knight 5824).....	347.14	50.86
28 46 21 17-1737	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4).....	604.87	101.74
28 46 21 17-1738	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E).....	615.82	101.74
28 46 21 17-1739	EA		Dress Panel (Silent Knight SK-DP2/4).....	117.24	25.44
28 46 21 17-1740	EA		Class A Converter (Silent Knight SK-CAC4).....	292.58	38.15
28 46 21 17-1741	EA		Transmitter Module (Silent Knight SK-4XTM).....	162.96	38.15
28 46 21 17-1742	EA		LED Interface Module (Silent Knight SK-4XLM).....	151.59	38.15
28 46 21 17-1743	EA		110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24).....	148.87	25.44
28 46 21 17-1744	EA		Remote Annunciator (Silent Knight SK-RZA4).....	151.59	38.15
28 46 21 17-1745	EA		Zone Relay Module (Silent Knight SK-4XZM).....	161.53	38.15
28 46 21 17-1746	EA		Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2).....	529.51	101.74
28 46 21 17-1747	EA		Remote Battery Box Accessory Cabinet (Silent Knight RBB).....	131.83	25.44
28 46 21 17-1748	EA		Manual Pull Station (single action) (Silent Knight PS-SATK).....	78.36	25.44
28 46 21 17-1749	EA		Manual Pull Station (dual action) (Silent Knight PS-DATK).....	83.85	25.44
28 46 21 17-1750	EA		Manual Pull Station (dual action) (Silent Knight PS-DA).....	82.31	25.44



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1751	EA	Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH) .....	74.79	25.44
28 46 21 17-1752	EA	Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB) .....	154.80	30.52
28 46 21 17-1753	EA	6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495) .....	522.49	76.30
28 46 21 17-1754	EA	9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499) .....	582.77	76.30
28 46 21 17-1755	EA	Detector (Silent Knight IDP-PhotoR) .....	191.28	38.15
28 46 21 17-1756	EA	Monitoring Module (Silent Knight IDP) .....	191.38	38.15
28 46 21 17-1757	EA	Cabinet (Silent Knight SK-5207) .....	273.63	76.30
28 46 21 17-1758	EA	Innovair IDP-Product (Silent Knight Innovair IDP-Pduct) .....	353.44	25.44
28 46 21 17-1759	EA	I/O Input-Output Module (Silent Knight SK-2880) .....	474.46	25.44
28 46 21 17-1760	EA	Remote Annunciator (Silent Knight RA-2000) .....	1,362.90	76.30
28 46 21 17-1761	EA	Power Supply (Silent Knight 5195/96) .....	837.56	25.44
28 46 21 17-1762	EA	8 Zone Expander (Silent Knight SK-5210) .....	656.01	25.44
28 46 21 17-1763	EA	LCD Remote Annunciator (Silent Knight SK-5230) .....	284.74	50.86
28 46 21 17-1764	EA	Ionization Smoke Detector (Silent Knight SK-ION) .....	147.86	38.15
28 46 21 17-1765	EA	Addressable Relay Module (Silent Knight IDP-Relay) .....	167.07	38.15
28 46 21 17-1766	EA	Telephone Line Monitor (Silent Knight SK-7150) .....	105.32	25.44
28 46 21 17-1767	EA	Serial Driver Board (Silent Knight SK-2884) .....	185.20	25.44
28 46 21 17-1768	EA	Smoke Detector Base (Silent Knight IDP-6AB) .....	55.70	12.71
28 46 21 17-1769	EA	Mini Input Module (Silent Knight IDP-MINIMON) .....	141.63	25.44
28 46 21 17-1770	EA	Status Display Module (Silent Knight SK-4180) .....	486.57	25.44
28 46 21 17-1771	EA	8-Channel Digital Communicator (Silent Knight SK-1420) .....	292.92	25.44
28 46 21 17-1772	EA	Serial Parallel Module (Silent Knight SK-4824) .....	268.71	25.44
28 46 21 17-1773	EA	Power Supply (Silent Knight SK-5197 / SK-5198) .....	958.58	25.44
28 46 21 17-1774	EA	4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204) .....	1,685.83	101.74
28 46 21 17-1775	EA	Intelligent Ionization Smoke Detector (Silent Knight IDP-ION) .....	197.33	38.15
28 46 21 17-1776	EA	Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo) .....	167.07	38.15
28 46 21 17-1777	EA	Fire Slave Communicator Dialer (Silent Knight SK-5128) .....	314.78	25.44
28 46 21 17-1778	EA	Intelligent Power Module (with cabinet) (Silent Knight SK-5496) .....	554.00	76.30
<b>28 46 21 17-1779 Alerton</b> <small>(28 46 21 17)</small>				
28 46 21 17-1780	EA	UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100) .....	451.61	7.63
<b>28 46 21 17-1781 Cooper Fire Alarm</b> <small>(28 46 21 17)</small>				
28 46 21 17-1782	EA	Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R) .....	162.27	25.44
28 46 21 17-1783	EA	Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001) .....	2,642.37	43.24
28 46 21 17-1784	EA	Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002) .....	3,477.93	43.24
28 46 21 17-1785	EA	Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001) .....	1,287.31	50.86
28 46 21 17-1786	EA	Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002) .....	1,294.73	50.86
28 46 21 17-1787	EA	Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007) .....	1,294.73	50.86
28 46 21 17-1788	EA	Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001) .....	966.08	50.86
28 46 21 17-1789	EA	Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003) .....	966.08	50.86
28 46 21 17-1790	EA	Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004) .....	966.08	50.86
28 46 21 17-1791	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005) .....	1,294.73	50.86
28 46 21 17-1792	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006) .....	1,294.73	50.86
28 46 21 17-1793	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007) .....	1,294.73	50.86
28 46 21 17-1794	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008) .....	1,294.73	50.86
28 46 21 17-1795	EA	Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002) .....	1,294.73	50.86
28 46 21 17-1796	EA	Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001) .....	1,486.91	50.86
28 46 21 17-1797	EA	Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003) .....	1,382.93	50.86
28 46 21 17-1798	EA	Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005) .....	1,382.93	50.86
28 46 21 17-1799	EA	Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006) .....	1,382.93	50.86
<b>28 46 21 17-1800 Light Engineered Displays Message Boards</b> <small>(28 46 21 17)</small>				
28 46 21 17-1801	EA	Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS) .....	474.18	30.52
28 46 21 17-1802	EA	Four Message Sign, "Fire", "Weather", "Announcement", "Evacuate" (LED SP-4) .....	576.30	30.52
<b>28 46 21 17-1803 STI Fire Alarm</b> <small>(28 46 21 17)</small>				
28 46 21 17-1804	EA	Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100) .....	112.99	15.26
		Note: Includes 9 Volt DC self contained battery.		
28 46 21 17-1805	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130) .....	148.43	15.26
28 46 21 17-1806	EA	Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200) .....	100.49	15.26
28 46 21 17-1807	EA	Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D) .....	91.28	15.26
		Note: For surface mounted horn strobes.		

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1808 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E) .....	81.16	15.26
28 46 21 17-1809 EA Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)..... Note: For surface mounted strobe.	91.28	15.26
28 46 21 17-1810 EA Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E) .....	91.08	15.26
28 46 21 17-1811 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....	184.63	15.26
28 46 21 17-1812 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)..... Note: For surface mounted pull stations.	120.74	15.26
28 46 21 17-1813 EA Backplate For Polycarbonate Cover (STI-1280).....	56.28	15.26
28 46 21 17-1814 EA Conduit Gasket For Polycarbonate Cover (STI-3003).....	40.04	15.26
28 46 21 17-1815 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100) .....	66.50	15.26
28 46 21 17-1816 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150) .....	125.22	15.26
28 46 21 17-1817 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A) .....	111.06	15.26
28 46 21 17-1818 EA 24.7" x 19.7" x 7.3", Key Lock, Lockable Enclosure (STI-7550).....	575.49	15.26
28 46 21 17-1819 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100) .....	89.94	15.26
28 46 21 17-1820 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601) .....	82.97	15.26
28 46 21 17-1821 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602) .....	76.48	15.26
28 46 21 17-1822 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604) .....	82.97	15.26
28 46 21 17-1823 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605) .....	76.48	15.26
28 46 21 17-1824 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609) .....	82.97	15.26
28 46 21 17-1825 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610) .....	76.48	15.26
28 46 21 17-1826 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625) .....	138.21	15.26
28 46 21 17-1827 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705) .....	70.44	15.26
28 46 21 17-1828 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R).....	70.44	15.26
28 46 21 17-1829 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706).....	106.65	15.26
28 46 21 17-1830 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707) .....	106.65	15.26
28 46 21 17-1831 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708) .....	76.94	15.26
28 46 21 17-1832 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R) .....	76.94	15.26
28 46 21 17-1833 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711) .....	70.44	15.26
28 46 21 17-1834 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	76.48	15.26
28 46 21 17-1835 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714) .....	76.94	15.26
28 46 21 17-1836 EA Yellow, "High Threat", Push Button Station (STI SS-2201) .....	79.09	7.63
28 46 21 17-1837 EA Gasket Kit For STI Covers (STI SUB-121).....	35.45	
<b>28 46 21 17-1838 System Sensor Fire Alarm (28 46 21 17)</b>		
<b>28 46 21 17-1839 Smoke Detectors (28 46 21 17-1838)</b>		
28 46 21 17-1840 EA Beam Detector Heater Kit (System Sensor BEAMHK).....	47.32	5.09
28 46 21 17-1841 EA Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR)..... Note: Four used with long range kit.	191.22	5.09
28 46 21 17-1842 EA Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK).....	242.86	50.86
28 46 21 17-1843 EA Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK) .....	180.65	50.86
28 46 21 17-1844 EA Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK) .....	149.09	50.86
28 46 21 17-1845 EA Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B) .....	133.64	38.15
28 46 21 17-1846 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B) .....	138.50	38.15
28 46 21 17-1847 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B) .....	139.82	38.15
28 46 21 17-1848 EA Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B).....	135.63	38.15
28 46 21 17-1849 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B).....	147.79	38.15
28 46 21 17-1850 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B).....	142.90	38.15
28 46 21 17-1851 EA Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B) .....	176.57	38.15
28 46 21 17-1852 EA Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	104.71	25.44
28 46 21 17-1853 EA Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T) .....	117.70	25.44
Note: Requires B100 series base.		
28 46 21 17-1854 EA Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK).....	218.55	12.71
28 46 21 17-1855 EA Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK) .....	76.50	12.71
<b>28 46 21 17-1856 Duct Smoke Detectors (28 46 21 17-1838)</b>		
28 46 21 17-1857 EA Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2) .....	283.57	38.15
28 46 21 17-1858 EA Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120) .....	286.58	38.15
28 46 21 17-1859 EA Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W).....	368.02	43.24
28 46 21 17-1860 EA Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	186.41	25.44
28 46 21 17-1861 EA Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL) .....	50.54	7.63
28 46 21 17-1862 EA Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR) .....	155.37	20.35
28 46 21 17-1863 EA Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	251.11	25.44
28 46 21 17-1864 EA 1' Steel Sampling Tube (System Sensor DST1) .....	30.56	10.18
28 46 21 17-1865 EA 1.5' Steel Sampling Tube (System Sensor DST1.5).....	32.88	10.18
28 46 21 17-1866 EA 3' Steel Sampling Tube (System Sensor DST3).....	37.53	10.18
28 46 21 17-1867 EA 5' Steel Sampling Tube (System Sensor DST5).....	43.52	12.71
28 46 21 17-1868 EA 10' Steel Sampling Tube (System Sensor DST10).....	69.28	15.26
28 46 21 17-1869 EA 1', Steel, Exhaust Tube Duct (System Sensor ETX).....	33.81	10.18
28 46 21 17-1870 EA Remote Test Station For Duct Smoke Detector (System Sensor RTS151) .....	77.20	12.71
28 46 21 17-1871 EA Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2) .....	162.47	
28 46 21 17-1872 EA Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B) .....	174.54	
<b>28 46 21 17-1873 Heat Detectors (28 46 21 17-1838)</b>		
28 46 21 17-1874 EA Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P) .....	94.83	38.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1875 EA Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602).....	94.83	38.15
28 46 21 17-1876 EA Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	108.94	38.15
28 46 21 17-1877 EA Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	108.94	38.15
<b>28 46 21 17-1878</b> <b>Horns</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-1879 EA Red, Mini Horn (System Sensor MHR).....	101.83	38.15
28 46 21 17-1880 EA White, Mini Horn (System Sensor MHW).....	101.83	38.15
28 46 21 17-1881 EA White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HW).....	114.83	38.15
28 46 21 17-1882 EA Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	128.26	43.24
28 46 21 17-1883 EA Red, Interior, Wall Mounted, Horn (System Sensor HR).....	112.91	38.15
28 46 21 17-1884 EA Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	133.64	38.15
<b>28 46 21 17-1885</b> <b>Wall Mounted Horns/Strobes</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-1886 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2R).....	146.86	38.15
28 46 21 17-1887 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	152.43	38.15
28 46 21 17-1888 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	194.17	43.24
28 46 21 17-1889 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	194.17	43.24
28 46 21 17-1890 EA Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	208.10	43.24
28 46 21 17-1891 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	183.50	43.24
28 46 21 17-1892 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	188.60	43.24
28 46 21 17-1893 EA Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	164.50	38.15
28 46 21 17-1894 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	146.86	38.15
28 46 21 17-1895 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W).....	146.86	38.15
28 46 21 17-1896 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	153.36	38.15
28 46 21 17-1897 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	194.17	43.24
28 46 21 17-1898 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	194.17	43.24
28 46 21 17-1899 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHP).....	152.43	38.15
28 46 21 17-1900 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	188.60	43.24
28 46 21 17-1901 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	188.60	43.24
28 46 21 17-1902 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W-P).....	146.86	38.15
28 46 21 17-1903 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4R).....	161.87	38.15
28 46 21 17-1904 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	165.40	38.15
28 46 21 17-1905 EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	190.57	43.24
28 46 21 17-1906 EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	184.89	43.24
28 46 21 17-1907 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4W).....	166.35	38.15
28 46 21 17-1908 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK).....	190.46	43.24
28 46 21 17-1909 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	196.03	43.24
<b>28 46 21 17-1910</b> <b>Ceiling Mounted Horns/Strobes</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-1911 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R).....	146.86	38.15
28 46 21 17-1912 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	154.29	38.15
28 46 21 17-1913 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	194.17	43.24
28 46 21 17-1914 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	188.60	43.24
28 46 21 17-1915 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	147.79	38.15
28 46 21 17-1916 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W).....	146.86	38.15
28 46 21 17-1917 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	154.29	38.15
28 46 21 17-1918 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	194.17	43.24



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1919 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	154.29	38.15
28 46 21 17-1920 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	188.60	43.24
28 46 21 17-1921 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	146.86	38.15
28 46 21 17-1922 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4R).....	161.87	38.15
28 46 21 17-1923 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH).....	165.40	38.15
28 46 21 17-1924 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4W).....	166.35	38.15
<b>28 46 21 17-1925 Wall Mounted Strobes (28 46 21 17-1838)</b>		
28 46 21 17-1926 EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW).....	57.01	12.71
28 46 21 17-1927 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW).....	105.28	12.71
28 46 21 17-1928 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR).....	130.11	38.15
28 46 21 17-1929 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH).....	142.46	38.15
28 46 21 17-1930 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK).....	172.05	43.24
28 46 21 17-1931 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK).....	170.29	43.24
28 46 21 17-1932 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P).....	174.68	43.24
28 46 21 17-1933 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R).....	154.25	43.24
28 46 21 17-1934 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR-P).....	132.93	38.15
28 46 21 17-1935 EA White, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW).....	132.93	38.15
28 46 21 17-1936 EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-ALERT).....	143.14	38.15
28 46 21 17-1937 EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-CLR-ALERT).....	140.36	38.15
28 46 21 17-1938 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH).....	145.93	38.15
28 46 21 17-1939 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT).....	145.00	38.15
28 46 21 17-1940 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P).....	145.00	38.15
28 46 21 17-1941 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P).....	176.53	43.24
28 46 21 17-1942 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK).....	176.53	43.24
28 46 21 17-1943 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P).....	176.53	43.24
28 46 21 17-1944 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R).....	157.97	43.24
28 46 21 17-1945 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK).....	174.68	43.24
28 46 21 17-1946 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P).....	174.68	43.24
28 46 21 17-1947 EA White, Plain, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-P).....	132.00	38.15
28 46 21 17-1948 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A).....	20.39	5.09
28 46 21 17-1949 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B).....	20.39	5.09
28 46 21 17-1950 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G).....	20.39	5.09
28 46 21 17-1951 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R).....	20.39	5.09
<b>28 46 21 17-1952 Ceiling Mounted Strobes (28 46 21 17-1838)</b>		
28 46 21 17-1953 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCR).....	130.11	38.15
28 46 21 17-1954 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	144.23	38.15
28 46 21 17-1955 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	172.05	43.24
28 46 21 17-1956 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	172.05	43.24
28 46 21 17-1957 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW).....	132.93	38.15
28 46 21 17-1958 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCW-CLR-ALERT).....	140.36	38.15
28 46 21 17-1959 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	147.79	38.15
28 46 21 17-1960 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK).....	176.53	43.24
28 46 21 17-1961 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	174.68	43.24
28 46 21 17-1962 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	133.86	38.15





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1963	EA			Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC) .....	20.39	5.09
28 46 21 17-1964	EA			Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC) .....	20.39	5.09
28 46 21 17-1965	EA			Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC) .....	20.39	5.09
28 46 21 17-1966	EA			Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC) .....	20.39	5.09
<b>28 46 21 17-1967 Wall Mounted Speakers (28 46 21 17-1838)</b>						
28 46 21 17-1968	EA			24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V) .....	307.47	38.15
28 46 21 17-1969	EA			Red, Wall Mounted Speaker (System Sensor SPR) .....	110.70	38.15
28 46 21 17-1970	EA			Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK) .....	160.32	38.15
28 46 21 17-1971	EA			Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R) .....	141.72	43.24
28 46 21 17-1972	EA			Red, High dB, Wall Mounted Speaker (System Sensor SPRV) .....	120.41	38.15
28 46 21 17-1973	EA			White, Wall Mounted Speaker (System Sensor SPW) .....	112.51	38.15
28 46 21 17-1974	EA			White, Outdoor, Wall Mounted Speaker (System Sensor SPWK) .....	170.50	43.24
28 46 21 17-1975	EA			White, High dB, Wall Mounted Speaker (System Sensor SPWV) .....	122.72	38.15
<b>28 46 21 17-1976 Ceiling Mounted Speakers (28 46 21 17-1838)</b>						
28 46 21 17-1977	EA			Red, Ceiling Mounted Speaker (System Sensor SPCR) .....	110.70	38.15
28 46 21 17-1978	EA			Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK) .....	156.14	38.15
28 46 21 17-1979	EA			Red, High dB, Ceiling Mounted Speaker (System Sensor SPCR) .....	120.41	38.15
28 46 21 17-1980	EA			White, Ceiling Mounted Speaker (System Sensor SPCW) .....	112.51	38.15
28 46 21 17-1981	EA			White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV) .....	122.72	38.15
28 46 21 17-1982	EA			White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK) .....	170.50	43.24
<b>28 46 21 17-1983 Wall Mounted Speakers/Strobes (28 46 21 17-1838)</b>						
28 46 21 17-1984	EA			White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSW) .....	113.64	12.71
28 46 21 17-1985	EA			White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSW) .....	57.01	12.71
28 46 21 17-1986	EA			Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR) .....	166.28	38.15
28 46 21 17-1987	EA			Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH) .....	175.98	38.15
28 46 21 17-1988	EA			Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK) .....	231.15	43.24
28 46 21 17-1989	EA			Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P) .....	238.74	43.24
28 46 21 17-1990	EA			Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R) .....	205.32	43.24
28 46 21 17-1991	EA			Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR-P) .....	171.00	38.15
28 46 21 17-1992	EA			Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV) .....	170.69	38.15
28 46 21 17-1993	EA			White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-ALERT) .....	191.42	38.15
28 46 21 17-1994	EA			White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT) .....	242.45	43.24
28 46 21 17-1995	EA			White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW) .....	171.00	38.15
28 46 21 17-1996	EA			White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH) .....	181.21	38.15
28 46 21 17-1997	EA			White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P) .....	181.21	38.15
28 46 21 17-1998	EA			White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK) .....	238.74	43.24
28 46 21 17-1999	EA			White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P) .....	238.74	43.24
28 46 21 17-2000	EA			White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-P) .....	171.00	38.15
28 46 21 17-2001	EA			White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV) .....	175.64	38.15
28 46 21 17-2002	EA			White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P) .....	175.64	38.15
<b>28 46 21 17-2003 Ceiling Mounted Speakers/Strobes (28 46 21 17-1838)</b>						
28 46 21 17-2004	EA			Red, Selectable Candela ( 15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCR) .....	166.28	38.15
28 46 21 17-2005	EA			Red, Selectable Candela ( 135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH) .....	177.75	38.15
28 46 21 17-2006	EA			Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCR) .....	170.69	38.15
28 46 21 17-2007	EA			White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW) .....	171.00	38.15
28 46 21 17-2008	EA			White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW-CLR-ALERT) .....	183.07	38.15
28 46 21 17-2009	EA			White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH) .....	181.21	38.15
28 46 21 17-2010	EA			White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK) .....	241.52	43.24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2011 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	181.21	38.15
28 46 21 17-2012 EA White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	242.45	43.24
28 46 21 17-2013 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	238.74	43.24
28 46 21 17-2014 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW-P).....	171.00	38.15
28 46 21 17-2015 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	175.64	38.15
28 46 21 17-2016 EA White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	181.21	38.15
28 46 21 17-2017 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	175.64	38.15
28 46 21 17-2018 EA High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCR VH).....	180.94	38.15
<b>28 46 21 17-2019 Electric Alarm Bells</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2020 EA 6" 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	132.93	38.15
28 46 21 17-2021 EA 8" 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	143.14	38.15
28 46 21 17-2022 EA 10" 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	166.73	38.15
28 46 21 17-2023 EA 6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	129.23	38.66
28 46 21 17-2024 EA 8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	130.45	38.66
28 46 21 17-2025 EA 10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	138.19	38.66
<b>28 46 21 17-2026 Device Bases</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2027 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	96.93	12.71
28 46 21 17-2028 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	94.61	12.71
28 46 21 17-2029 EA Intelligent Isolator Base (System Sensor B224BI).....	78.59	12.71
28 46 21 17-2030 EA Intelligent Relay Base (System Sensor B224RB).....	79.75	12.71
28 46 21 17-2031 EA Flangeless, Intelligent Detector Base (System Sensor B501).....	46.56	12.71
<b>28 46 21 17-2032 Boxes, Plates And Decals</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2033 EA Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	40.76	12.71
28 46 21 17-2034 EA Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	75.55	15.26
28 46 21 17-2035 EA Conventional Flanged Mounting Base (System Sensor B210LP).....	39.37	12.71
28 46 21 17-2036 EA 120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	72.79	12.71
28 46 21 17-2037 EA Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	64.43	12.71
28 46 21 17-2038 EA White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW).....	70.93	12.71
28 46 21 17-2039 EA White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	64.43	12.71
28 46 21 17-2040 EA Red Retrofit Plate (System Sensor RFP).....	31.60	7.63
28 46 21 17-2041 EA White Retrofit Plate (System Sensor RFPW).....	31.60	7.63
28 46 21 17-2042 EA Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB).....	55.15	12.71
28 46 21 17-2043 EA Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	56.54	12.71
28 46 21 17-2044 EA Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCR).....	47.26	12.71
28 46 21 17-2045 EA White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCW).....	47.26	12.71
28 46 21 17-2046 EA Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBCR).....	40.76	12.71
28 46 21 17-2047 EA Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBCSPR).....	45.40	12.71
28 46 21 17-2048 EA White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBCSPW).....	45.40	12.71
28 46 21 17-2049 EA White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBW).....	40.76	12.71
28 46 21 17-2050 EA Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	40.29	12.71
28 46 21 17-2051 EA Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	40.29	12.71
28 46 21 17-2052 EA Red, Wall Mounted, Trim Ring (System Sensor TR).....	16.96	5.09
28 46 21 17-2053 EA Red, Ceiling Mounted, Trim Ring (System Sensor TRC).....	16.96	5.09
28 46 21 17-2054 EA White, Ceiling Mounted, Trim Ring (System Sensor TRCW).....	16.96	5.09
28 46 21 17-2055 EA Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	14.78	5.09
28 46 21 17-2056 EA White, Wall Mounted, Trim Ring (System Sensor TRW).....	16.96	5.09
28 46 21 17-2057 EA Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	21.51	
28 46 21 17-2058 EA Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	29.79	
28 46 21 17-2059 EA White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	21.51	
28 46 21 17-2060 EA White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	29.79	
<b>28 46 21 17-2061 Chimes</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2062 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHR).....	118.08	38.15
28 46 21 17-2063 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHW).....	118.08	38.15
<b>28 46 21 17-2064 Chime/Strobes</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2065 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSR).....	205.35	38.15
28 46 21 17-2066 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSW).....	205.35	38.15
<b>28 46 21 17-2067 Carbon Monoxide Detectors</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2068 EA Conventional Carbon Monoxide Detector (System Sensor CO1224).....	213.33	50.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2069 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	193.74	38.15
28 46 21 17-2070 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	13.89	5.09
<b>28 46 21 17-2071 Switches</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2072 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	162.31	20.35
28 46 21 17-2073 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	180.88	20.35
28 46 21 17-2074 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	162.31	20.35
28 46 21 17-2075 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	180.88	20.35
28 46 21 17-2076 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	166.02	20.35
28 46 21 17-2077 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	156.74	20.35
<b>28 46 21 17-2078 Low Frequency Sounders</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2079 EA Red, Low Frequency Sounder (System Sensor HR-LF).....	148.72	38.15
28 46 21 17-2080 EA White, Low Frequency Sounder (System Sensor HW-LF).....	148.72	38.15
<b>28 46 21 17-2081 Sync Modules</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2082 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	129.77	25.44
28 46 21 17-2083 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	129.77	25.44
<b>28 46 21 17-2084 Relays</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2085 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	74.76	20.35
28 46 21 17-2086 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	48.09	12.71
28 46 21 17-2087 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	134.99	12.71
28 46 21 17-2088 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	99.94	12.71
28 46 21 17-2089 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	80.05	20.35
28 46 21 17-2090 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	49.58	12.71
28 46 21 17-2091 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	151.70	12.71
28 46 21 17-2092 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	113.64	12.71
28 46 21 17-2093 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	42.15	12.71
28 46 21 17-2094 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	42.15	12.71
28 46 21 17-2095 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	42.15	12.71
<b>28 46 21 17-2096 Remote Annunciator</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2097 EA Remote Annunciator (System Sensor RA100Z).....	89.11	38.15
28 46 21 17-2098 EA Remote LED Annunciator (System Sensor RA100ZA).....	94.30	38.15
<b>28 46 21 17-2099 Remote Test Station</b> <small>(28 46 21 17-1838)</small>		
28 46 21 17-2100 EA Remote Test Station With Key (System Sensor RTS151KEY).....	117.30	38.15
<b>28 46 21 17-2101 Fire Alarm Digital Cellular Communicator</b> <small>(28 46 21 17)</small>		
28 46 21 17-2102 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS).....	465.95	50.86
<b>28 46 21 17-2103 Wheelock Fire Alarm</b> <small>(28 46 21 17)</small>		
<b>28 46 21 17-2104 Ceiling Mounted Chimes/Strobes</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2105 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	237.84	38.15
<b>28 46 21 17-2106 Wall Mounted Chimes/Strobes</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2107 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR).....	237.84	38.15
28 46 21 17-2108 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	237.84	38.15
<b>28 46 21 17-2109 Ceiling Mounted Horns/Strobes</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2110 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC).....	151.50	38.15
28 46 21 17-2111 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC).....	151.50	38.15
<b>28 46 21 17-2112 Wall Mounted Horns/Strobes</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2113 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	161.71	38.15
28 46 21 17-2114 EA Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR).....	182.14	38.15
28 46 21 17-2115 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR).....	170.07	38.15
28 46 21 17-2116 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	170.07	38.15
28 46 21 17-2117 EA Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR).....	173.78	38.15

**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2118 EA Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	166.82	38.15
28 46 21 17-2119 EA Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR) .....	166.35	38.15
28 46 21 17-2120 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR).....	187.68	43.24
28 46 21 17-2121 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR) .....	151.96	38.15
28 46 21 17-2122 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW).....	151.96	38.15
<b>28 46 21 17-2123 Ceiling Mounted Strobes</b> (28 46 21 17-2103)		
28 46 21 17-2124 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR).....	136.18	38.15
28 46 21 17-2125 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW) .....	136.18	38.15
28 46 21 17-2126 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC) .....	138.50	38.15
28 46 21 17-2127 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC).....	138.50	38.15
<b>28 46 21 17-2128 Wall Mounted Strobes</b> (28 46 21 17-2103)		
28 46 21 17-2129 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR) .....	206.28	38.15
28 46 21 17-2130 EA Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR).....	169.14	38.15
28 46 21 17-2131 EA Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR).....	149.64	38.15
28 46 21 17-2132 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR).....	140.36	38.15
28 46 21 17-2133 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW).....	140.36	38.15
28 46 21 17-2134 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR).....	153.82	38.15
28 46 21 17-2135 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR) .....	158.90	43.24
Note: Requires WPSBB-R.		
28 46 21 17-2136 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR).....	138.50	38.15
28 46 21 17-2137 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW) .....	138.50	38.15
<b>28 46 21 17-2138 Ceiling Mounted Speakers/Strobes</b> (28 46 21 17-2103)		
28 46 21 17-2139 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	180.28	38.15
28 46 21 17-2140 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW) .....	180.28	38.15
28 46 21 17-2141 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW) .....	178.42	38.15
28 46 21 17-2142 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	180.28	38.15
28 46 21 17-2143 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	191.89	38.15
28 46 21 17-2144 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW).....	196.06	38.15
<b>28 46 21 17-2145 Wall Mounted Speakers/Strobes</b> (28 46 21 17-2103)		
28 46 21 17-2146 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR) .....	197.92	38.15
28 46 21 17-2147 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW).....	197.92	38.15
28 46 21 17-2148 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR) .....	191.89	38.15
28 46 21 17-2149 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	191.89	38.15
28 46 21 17-2150 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	180.28	38.15
28 46 21 17-2151 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	176.57	38.15
28 46 21 17-2152 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR).....	191.89	38.15
28 46 21 17-2153 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW) .....	191.89	38.15
28 46 21 17-2154 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR) .....	196.06	38.15
28 46 21 17-2155 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	180.28	38.15
28 46 21 17-2156 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	176.57	38.15
28 46 21 17-2157 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	191.89	38.15
28 46 21 17-2158 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW) .....	196.06	38.15
28 46 21 17-2159 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	196.06	38.15
28 46 21 17-2160 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	196.06	38.15
28 46 21 17-2161 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR).....	214.14	43.24
Note: Requires weatherproof backbox (IOB).		
<b>28 46 21 17-2162 Electric Alarm Bells</b> (28 46 21 17-2103)		
28 46 21 17-2163 EA 6", 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R) .....	154.75	38.15
28 46 21 17-2164 EA 6", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R).....	154.75	38.15
28 46 21 17-2165 EA 10", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R).....	197.92	38.15
28 46 21 17-2166 EA 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R) .....	1,303.61	43.24
28 46 21 17-2167 EA Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R).....	2,054.69	43.24
28 46 21 17-2168 EA Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R).....	1,920.07	43.24
28 46 21 17-2169 EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R) .....	126.90	38.15
28 46 21 17-2170 EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R) .....	148.72	38.15





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 21 17-2171</b>				<b>Horns</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2172	EA			Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R).....	113.44	38.15
28 46 21 17-2173	EA			Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR).....	112.97	38.15
28 46 21 17-2174	EA			White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW).....	112.97	38.15
28 46 21 17-2175	EA			Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC).....	113.44	38.15
28 46 21 17-2176	EA			White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNBC).....	113.44	38.15
28 46 21 17-2177	EA			Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R).....	97.65	38.15
28 46 21 17-2178	EA			White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W).....	97.65	38.15
28 46 21 17-2179	EA			Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R).....	111.12	38.15
<b>28 46 21 17-2180</b>				<b>Speakers</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2181	EA			Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-R).....	116.22	38.15
28 46 21 17-2182	EA			White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-W).....	116.22	38.15
28 46 21 17-2183	EA			Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-R).....	116.22	38.15
28 46 21 17-2184	EA			White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-W).....	113.90	38.15
28 46 21 17-2185	EA			Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-R).....	116.22	38.15
28 46 21 17-2186	EA			White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	116.22	38.15
28 46 21 17-2187	EA			Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	116.22	38.15
28 46 21 17-2188	EA			White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	116.22	38.15
28 46 21 17-2189	EA			Red, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-R).....	131.08	38.15
28 46 21 17-2190	EA			White, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-W).....	131.08	38.15
28 46 21 17-2191	EA			White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watts Ceiling Mounted Speaker (Wheelock ET90-W).....	132.93	38.15
28 46 21 17-2192	EA			Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	146.39	38.15
28 46 21 17-2193	EA			Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	140.36	38.15
28 46 21 17-2194	EA			Grey, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S).....	261.05	38.15
28 46 21 17-2195	EA			Red, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR).....	261.05	38.15
<b>28 46 21 17-2196</b>				<b>Sync Modules</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2197	EA			12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R).....	123.28	25.44
<b>28 46 21 17-2198</b>				<b>Boxes, Plates And Rings</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2199	EA			4" Square, Red, Surface Backbox (Wheelock BB-R).....	34.03	12.71
28 46 21 17-2200	EA			Standard 4" Square Box (Wheelock BB-STD).....	31.57	12.71
28 46 21 17-2201	EA			Black, Backbox For UZC-256 (Wheelock BB-UZC).....	167.84	25.44
28 46 21 17-2202	EA			Red, Backbox For UZC-256 (Wheelock BB-UZC-R).....	167.84	25.44
28 46 21 17-2203	EA			9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP).....	125.17	20.35
28 46 21 17-2204	EA			Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	18.30	5.09
28 46 21 17-2205	EA			White, Extender Ring For E60 Series (Wheelock E60EXT-W).....	18.07	5.09
28 46 21 17-2206	EA			Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R).....	43.54	12.71
28 46 21 17-2207	EA			White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W).....	41.69	12.71
28 46 21 17-2208	EA			Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R).....	44.47	12.71
28 46 21 17-2209	EA			White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W).....	44.47	12.71
28 46 21 17-2210	EA			4" Square Backbox (Wheelock DBB-R).....	36.12	12.71
28 46 21 17-2211	EA			Red, Surface Backbox (Wheelock IOB-R).....	42.62	12.71
28 46 21 17-2212	EA			White, Surface, Backbox (Wheelock IOB-W).....	42.62	12.71
28 46 21 17-2213	EA			White, Indoor, Surface Extender (Wheelock ISP2-W).....	17.38	5.09
28 46 21 17-2214	EA			Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	18.07	5.09
28 46 21 17-2215	EA			White, RS/RSS Strobe Trim Plate (Wheelock NATP-W).....	18.07	5.09
28 46 21 17-2216	EA			Red Retrofit Plate (Wheelock RP-R).....	20.86	5.09
28 46 21 17-2217	EA			4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	29.68	5.09
28 46 21 17-2218	EA			Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R).....	44.47	12.71
28 46 21 17-2219	EA			White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W).....	44.47	12.71
28 46 21 17-2220	EA			Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R).....	47.95	12.71
28 46 21 17-2221	EA			Red, Semi-Flush Plate (Wheelock SFB-R).....	18.77	5.09
28 46 21 17-2222	EA			White, Semi-Flush Plate (Wheelock SFB-W).....	18.77	5.09
28 46 21 17-2223	EA			Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R).....	39.37	12.71
28 46 21 17-2224	EA			White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W).....	39.37	12.71
28 46 21 17-2225	EA			Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	25.73	5.09
28 46 21 17-2226	EA			Red, Weatherproof Backbox (Wheelock WBB).....	55.15	12.71
28 46 21 17-2227	EA			Weather Resistant Backbox (Wheelock WBB-R).....	44.47	12.71
28 46 21 17-2228	EA			Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	32.69	5.09
28 46 21 17-2229	EA			White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	32.69	5.09
28 46 21 17-2230	EA			Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	32.69	5.09
28 46 21 17-2231	EA			White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W).....	32.69	5.09
28 46 21 17-2232	EA			Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	18.77	5.09
28 46 21 17-2233	EA			Weather Resistant Backbox For ASWP (Wheelock WPBB-R).....	46.79	12.71
28 46 21 17-2234	EA			Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R).....	44.47	12.71
<b>28 46 21 17-2235</b>				<b>Manual Pull Station</b> <small>(28 46 21 17-2103)</small>		
28 46 21 17-2236	EA			SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	93.96	25.44
28 46 21 17-2237	EA			SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	93.96	25.44
28 46 21 17-2238	EA			Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	701.68	25.44



**28 Electronic Safety And Security****28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**28 46 21 17-2239 Fire Alarm Terminal Cabinets (28 46 21 17)**

28 46 21 17-2240	EA	18 Point Lockable Fire Alarm Terminal Cabinet.....	177.06	50.94
28 46 21 17-2241	EA	32 Point Lockable Fire Alarm Terminal Cabinet.....	222.18	50.94
28 46 21 17-2242	EA	64 Point Lockable Fire Alarm Terminal Cabinet.....	312.43	50.94
28 46 21 17-2243	EA	128 Point Lockable Fire Alarm Terminal Cabinet.....	402.64	50.94

**28 46 23 Fire Alarm Notification Appliances (28 46)****28 46 23 11 Fire Alarm Horns and Strobes (28 46 23)**

See CSI section 28 46 21 17-0000 for fire alarm horns and strobes.

**28 46 23 13 Fire Alarm Speakers (28 46 23)**

See CSI section 28 46 21 17-0000 for fire alarm speakers.

**28 47 Mass Notification (28 40)****28 47 15 Mass Notification Control Panels (28 47)****28 47 15 00-0001 Central Station Controls (28 47 15)**

28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	670.23	
28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,088.01	
28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	2,619.87	
28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	830.72	25.44
28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	3,021.74	25.44
28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	468.64	25.44
28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	598.62	25.44

**28 47 17 Notification Devices and Methods (28 47)****28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)****28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)**

28 47 17 17-0002	EA	1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	8,461.47	629.93
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0003	EA	2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	10,242.14	657.32
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0004	EA	3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	15,633.82	684.70
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0005	EA	4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	13,803.48	712.09
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0006	EA	5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	20,452.92	739.47
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0007	EA	6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A).....	19,012.75	766.87
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0008	EA	7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A).....	26,872.02	794.26
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0009	EA	8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A).....	22,713.35	821.64
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0010	EA	9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A).....	24,517.23	849.03
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0011	EA	10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A).....	26,297.90	876.42
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0012	EA	3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003).....	18,687.81	766.87
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0013	EA	4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004).....	19,888.22	794.26
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.				
28 47 17 17-0014	EA	One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	408.29	25.44
28 47 17 17-0015	EA	VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	1,332.05	25.44
28 47 17 17-0016	EA	UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	1,373.83	25.44
28 47 17 17-0017	EA	UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	1,373.83	25.44
28 47 17 17-0018	EA	VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,332.05	25.44
28 47 17 17-0019	EA	Two-Tone Sequential Option (Whelen WPSTT).....	329.38	25.44
28 47 17 17-0020	EA	Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	473.28	25.44
28 47 17 17-0021	EA	Landline, 10 Digit DTMF (Whelen C2030LL).....	501.13	25.44
28 47 17 17-0022	EA	VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	1,780.86	25.44
28 47 17 17-0023	EA	UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	1,656.99	25.44
28 47 17 17-0024	EA	UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	1,656.99	25.44
28 47 17 17-0025	EA	VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	1,656.99	25.44
28 47 17 17-0026	EA	Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	598.62	25.44
28 47 17 17-0027	EA	Cabinet Window LED Status Indicator (Whelen STATUS).....	352.59	25.44
28 47 17 17-0028	EA	Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	310.81	25.44
28 47 17 17-0029	EA	Intrusion Alarm (Whelen INTRUWPS).....	236.54	25.44
28 47 17 17-0030	EA	Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG).....	162.47	
28 47 17 17-0031	EA	Whelen Library Messages (Whelen MSGPROGL).....	32.49	
28 47 17 17-0032	EA	Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	129.77	25.44
28 47 17 17-0033	EA	One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	637.98	38.15
28 47 17 17-0034	EA	WPS And OA Series, Roof Top Mounted (Whelen RTM).....	7,794.88	602.54
28 47 17 17-0035	EA	Two 80 Watt Panels, Solar Power System (Whelen SBC280).....	3,090.41	152.60
Note: Includes mounting bracket and regulator.				
28 47 17 17-0036	EA	Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	1,561.74	38.15



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0037	EA			Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	1,561.74	38.15
28 47 17 17-0038	EA			Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	1,561.74	38.15
28 47 17 17-0039	EA			Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	1,561.74	38.15
28 47 17 17-0040	EA			Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	1,561.74	38.15
28 47 17 17-0041	EA			Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	592.49	38.15
28 47 17 17-0042	EA			Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	592.49	38.15
28 47 17 17-0043	EA			Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	592.49	38.15
28 47 17 17-0044	EA			Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	480.15	38.15
28 47 17 17-0045	EA			Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	480.15	38.15
28 47 17 17-0046	EA			Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	480.15	38.15
28 47 17 17-0047	EA			Green, 24 Volt DC, Strobe (Whelen ISB24G).....	480.15	38.15
28 47 17 17-0048	EA			Red, 24 Volt DC, Strobe (Whelen ISB24R).....	480.15	38.15
28 47 17 17-0049	EA			Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	607.90	25.44
28 47 17 17-0050	EA			Strobe Controller (Whelen STCTRL).....	505.78	25.44
28 47 17 17-0051	EA			LED Controller (Whelen LEDCTRL).....	505.78	25.44
28 47 17 17-0052	EA			Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	261.98	38.15
28 47 17 17-0053	EA			Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	435.57	
28 47 17 17-0054	EA			400 Watt Speaker Driver (Whelen SPKDRV).....	700.74	25.44
28 47 17 17-0055	EA			Cabinet Window LED Status Indicator (Whelen STATUS).....	352.59	25.44
28 47 17 17-0056	EA			Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	129.77	25.44
28 47 17 17-0057	EA			Notifier/Whelen Interface Board (Whelen NAUXCS).....	631.11	25.44
<b>28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)</b>						
28 47 17 17-0059	EA			One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	7,469.94	602.54
28 47 17 17-0060	EA			Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	9,115.99	629.93
28 47 17 17-0061	EA			Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	10,762.04	657.32
28 47 17 17-0062	EA			Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	12,412.75	684.70
28 47 17 17-0063	EA			One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN).....	222.61	25.44
28 47 17 17-0064	EA			One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	408.29	25.44
28 47 17 17-0065	EA			VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	1,332.05	25.44
28 47 17 17-0066	EA			UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	1,373.83	25.44
28 47 17 17-0067	EA			UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,373.83	25.44
28 47 17 17-0068	EA			VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,332.05	25.44
28 47 17 17-0069	EA			One-Way Control Two-Tone Sequential Option (Whelen OTT).....	329.38	25.44
28 47 17 17-0070	EA			Two Way Controls, Contact Closure Activation Board (Whelen OAUXCS).....	473.28	25.44
28 47 17 17-0071	EA			Two Way Landline Activation (Whelen OC2030LL).....	501.13	25.44
28 47 17 17-0072	EA			VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	1,656.99	25.44
28 47 17 17-0073	EA			UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	1,656.99	25.44
28 47 17 17-0074	EA			UHF, 10 Digit DTMF (Whelen OC230WU).....	1,656.99	25.44
28 47 17 17-0075	EA			VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	1,656.99	25.44
28 47 17 17-0076	EA			Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	598.62	25.44
28 47 17 17-0077	EA			Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	310.81	25.44
28 47 17 17-0078	EA			Cabinet Window LED Status Indicator (Whelen OSTATUS).....	352.59	25.44
28 47 17 17-0079	EA			Intrusion Alarm (Whelen OINTRU).....	190.12	25.44
28 47 17 17-0080	EA			80 Watt Solar Power Option (Whelen OSBC280).....	3,090.41	152.60
28 47 17 17-0081	EA			One Pair Of Whelen Approved Batteries For Omialert (Whelen BSETO).....	577.64	38.15
<b>28 47 17 17-0082 Tone-Only Rotating Directional Speakers (28 47 17 17)</b>						
28 47 17 17-0083	EA			3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	14,499.78	712.09
28 47 17 17-0084	EA			4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	15,491.32	739.47
28 47 17 17-0085	EA			Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	222.61	25.44
28 47 17 17-0086	EA			Landline, 10 Digit DTMF (Whelen VD2030LL).....	408.29	25.44
28 47 17 17-0087	EA			VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	1,332.05	25.44
28 47 17 17-0088	EA			UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	1,373.83	25.44
28 47 17 17-0089	EA			UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,373.83	25.44
28 47 17 17-0090	EA			VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,332.05	25.44
28 47 17 17-0091	EA			Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	329.38	25.44
28 47 17 17-0092	EA			Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	473.28	25.44
28 47 17 17-0093	EA			Landline, 10 Digit DTMF (Whelen VC2030LL).....	501.13	25.44
28 47 17 17-0094	EA			VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	1,656.99	25.44
28 47 17 17-0095	EA			UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	1,656.99	25.44
28 47 17 17-0096	EA			UHF, 10 Digit DTMF (Whelen VC230WU).....	1,656.99	25.44
28 47 17 17-0097	EA			VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	1,656.99	25.44
28 47 17 17-0098	EA			Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	598.62	25.44
28 47 17 17-0099	EA			Cabinet Window LED Status Indicator (Whelen VSTATUS).....	352.59	25.44
28 47 17 17-0100	EA			Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	310.81	25.44
28 47 17 17-0101	EA			Vortex Intrusion Alarm (Whelen VINTRU).....	190.12	25.44
28 47 17 17-0102	EA			Speaker Pole Top Bracket (Whelen VPTB).....	482.57	25.44
28 47 17 17-0103	EA			80 Watt Solar Power Option (Whelen VSBC280).....	3,090.41	152.60
28 47 17 17-0104	EA			One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	577.64	38.15
28 47 17 17-0105	EA			Program Charge For Custom VROM Message (Whelen VPROG).....	2,069.40	

**28 Electronic Safety And Security****28 40 Life Safety****28 47 Mass Notification**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 47 17 17-0106 Uni-Directional Rotating Speakers</b> <small>(28 47 17 17)</small>		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	9,761.23	629.93
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	222.61	25.44
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	408.29	25.44
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	1,332.05	25.44
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	1,373.83	25.44
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,373.83	25.44
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,332.05	25.44
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	329.38	25.44
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	473.28	25.44
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	501.13	25.44
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	1,656.99	25.44
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	1,656.99	25.44
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	1,656.99	25.44
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	1,656.99	25.44
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	598.62	25.44
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS).....	352.59	25.44
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT).....	310.81	25.44
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU).....	190.12	25.44
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280).....	3,090.41	152.60
28 47 17 17-0126 EA Pole Top Bracket For Speaker (Whelen HPTB).....	482.57	25.44
28 47 17 17-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF).....	577.64	38.15
<b>28 47 17 17-0128 All Hazard In-Plant Personnel Warning System</b> <small>(28 47 17 17)</small>		
28 47 17 17-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	5,248.53	813.88
28 47 17 17-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	6,343.26	915.62
28 47 17 17-0131 EA 15 Watt, Wide Angle Speaker (Whelen WS15T).....	285.19	38.15
28 47 17 17-0132 EA Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	234.13	38.15
28 47 17 17-0133 EA With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	443.02	38.15
28 47 17 17-0134 EA 30 Watt, Wide Angle Speaker (Whelen WS30T).....	350.18	38.15
28 47 17 17-0135 EA 60 Watt, Wide Angle Speaker (Whelen WS60T).....	712.25	38.15
28 47 17 17-0136 EA Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,089.15	43.24
28 47 17 17-0137 EA 100 Watt, Wide Angle Speaker (Whelen WS100).....	498.72	38.15
28 47 17 17-0138 EA Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	754.93	43.24
28 47 17 17-0139 EA Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	236.54	25.44
<b>28 47 17 17-0140 Firehouse Siren</b> <small>(28 47 17 17)</small>		
28 47 17 17-0141 EA Auxiliary Board Contact Closure (Whelen FAUXIN).....	222.61	25.44
28 47 17 17-0142 EA Two-Tone Sequential Option (Whelen FTT).....	329.38	25.44
28 47 17 17-0143 EA Auxiliary/Status Control Board (Whelen FAUXCS).....	473.28	25.44
28 47 17 17-0144 EA Landline, 10 Digit DTMF (Whelen FC2030LL).....	501.13	25.44
28 47 17 17-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	1,656.99	25.44
28 47 17 17-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	1,656.99	25.44
28 47 17 17-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU).....	1,656.99	25.44
28 47 17 17-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	1,656.99	25.44
28 47 17 17-0149 EA Paging Interface Control Option (Whelen FPGINT).....	310.81	25.44
28 47 17 17-0150 EA Intrusion Alarm Control Option (Whelen FINTRU).....	190.12	25.44
28 47 17 17-0151 EA Solar Power Option (Whelen FSBC280).....	3,090.41	152.60
Note: Two 80 watt panels, with brackets and solar regulator.		
<b>28 47 17 17-0152 Alert Monitor And Message Display</b> <small>(28 47 17 17)</small>		
28 47 17 17-0153 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,220.64	25.44
28 47 17 17-0154 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,220.64	25.44
28 47 17 17-0155 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,220.64	25.44
28 47 17 17-0156 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,220.64	25.44
28 47 17 17-0157 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	201.63	38.15
28 47 17 17-0158 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	60.14	25.44
28 47 17 17-0159 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	102.12	
28 47 17 17-0160 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	162.47	
<b>28 47 17 17-0161 Portable Test Set</b> <small>(28 47 17 17)</small>		
28 47 17 17-0162 EA VHF High Band, Portable Test Set (Whelen PT2010H).....	5,570.40	
28 47 17 17-0163 EA VHF Low Band, Portable Test Set (Whelen PT2010L).....	5,570.40	
28 47 17 17-0164 EA UHF, Portable Test Set (Whelen PT2010U).....	5,570.40	
<b>28 47 17 17-0165 Replacement Warning Lights</b> <small>(28 47 17 17)</small>		
28 47 17 17-0166 EA Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024A).....	313.49	40.69
28 47 17 17-0167 EA Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024B).....	313.49	40.69
28 47 17 17-0168 EA Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024C).....	313.49	40.69
28 47 17 17-0169 EA Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024G).....	313.49	40.69
28 47 17 17-0170 EA Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024R).....	313.49	40.69
28 47 17 17-0171 EA Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120A).....	220.65	40.69
28 47 17 17-0172 EA Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120B).....	220.65	40.69
28 47 17 17-0173 EA Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120C).....	220.65	40.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0174 EA Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG) .....	220.65	40.69
28 47 17 17-0175 EA Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR) .....	220.65	40.69
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA) .....	313.49	40.69
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB) .....	313.49	40.69
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC) .....	313.49	40.69
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG) .....	313.49	40.69
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR) .....	313.49	40.69
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA) .....	229.93	40.69
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB) .....	229.93	40.69
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC) .....	229.93	40.69
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG) .....	229.93	40.69
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR) .....	229.93	40.69
 <b>28 47 17 17-0186 Antenna <small>(28 47 17 17)</small></b>		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC) .....	189.27	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB) .....	189.22	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000) .....	8,736.54	

**END OF SECTION 28**

28	<b>28</b>	<b>Electronic Safety And Security</b>
	28 40	Life Safety
	28 47	Mass Notification



MINOR CSI UOM DESCRIPTION
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TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>Earthwork</b>	<b>31</b>	<b>15</b>
Maintenance of Earthwork	31 01	
Maintenance of Earth Moving	31 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 31 Earthwork

### 31 01 Maintenance of Earthwork <sup>(31)</sup>

#### 31 01 20 Maintenance of Earth Moving <sup>(31 01)</sup>

##### 31 01 20 00-0001 Rip Settling Basins <sup>(31 01 20)</sup>

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer .....	530.70
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper .....	832.44
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader .....	723.27

### 31 05 Common Work Results For Earthwork <sup>(31)</sup>

#### 31 05 13 Soils For Earthwork <sup>(31 05)</sup>

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

##### 31 05 13 00-0001 Fill Material (Loose, Purchased Material) <sup>(31 05 13)</sup>

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0002	CY Bank Run/Fill Sand .....	28.63
	For Up To 8, Add	5.73
	For >8 To 16, Add	2.86
	For >48 To 64, Deduct	-2.05
	For >64 To 96, Deduct	-3.48
	For >96, Deduct	-4.91
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand .....	34.25
	For Up To 8, Add	6.85
	For >8 To 16, Add	3.43
	For >48 To 64, Deduct	-2.33
	For >64 To 96, Deduct	-4.04
	For >96, Deduct	-5.76
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand .....	47.72
	For Up To 8, Add	9.54
	For >8 To 16, Add	4.77
	For >48 To 64, Deduct	-3.00
	For >64 To 96, Deduct	-5.39
	For >96, Deduct	-7.78
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand .....	42.67
	For Up To 8, Add	8.53
	For >8 To 16, Add	4.27
	For >48 To 64, Deduct	-2.75
	For >64 To 96, Deduct	-4.88
	For >96, Deduct	-7.02
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand .....	77.48
	For Up To 8, Add	15.50
	For >8 To 16, Add	7.75
	For >48 To 64, Deduct	-4.49
	For >64 To 96, Deduct	-8.37
	For >96, Deduct	-12.24
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt .....	35.93
	For Up To 8, Add	7.19
	For >8 To 16, Add	3.59
	For >48 To 64, Deduct	-2.41
	For >64 To 96, Deduct	-4.21
	For >96, Deduct	-6.01
31 05 13 00-0008	CY Lime Rock Screening .....	32.40
	For Up To 8, Add	6.48
	For >8 To 16, Add	3.24
	For >48 To 64, Deduct	-2.24
	For >64 To 96, Deduct	-3.86
	For >96, Deduct	-5.48
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2" .....	32.40
	For Up To 8, Add	6.48
	For >8 To 16, Add	3.24
	For >48 To 64, Deduct	-2.24
	For >64 To 96, Deduct	-3.86
	For >96, Deduct	-5.48
31 05 13 00-0010	CY Sand/Clay .....	37.15
	For Up To 8, Add	7.43
	For >8 To 16, Add	3.72
	For >48 To 64, Deduct	-2.48
	For >64 To 96, Deduct	-4.33
	For >96, Deduct	-6.19
31 05 13 00-0011	CY Recycled Concrete Aggregate .....	28.91
	For Up To 8, Add	5.78
	For >8 To 16, Add	2.89
	For >48 To 64, Deduct	-2.06
	For >64 To 96, Deduct	-3.51
	For >96, Deduct	-4.95

<b>31</b>	<b>Earthwork</b>
<b>31 05</b>	<b>Common Work Results For Earthwork</b>
<b>31 05 13</b>	<b>Soils For Earthwork</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012 CY Pitrun Clay .....	52.78	
For Up To 8, Add	10.56	
For >8 To 16, Add	5.28	
For >48 To 64, Deduct	-3.26	
For >64 To 96, Deduct	-5.90	
For >96, Deduct	-8.53	
31 05 13 00-0013 CY Light Clay / Loam .....	42.61	
For Up To 8, Add	8.52	
For >8 To 16, Add	4.26	
For >48 To 64, Deduct	-2.75	
For >64 To 96, Deduct	-4.88	
For >96, Deduct	-7.01	
31 05 13 00-0014 CY Heavy Clay .....	52.78	
For Up To 8, Add	10.56	
For >8 To 16, Add	5.28	
For >48 To 64, Deduct	-3.26	
For >64 To 96, Deduct	-5.90	
For >96, Deduct	-8.53	
31 05 13 00-0015 CY SDG&E Sand .....	33.17	
31 05 13 00-0016 TON SDG&E B20 Sand .....	34.41	

### 31 05 16 Aggregates For Earthwork (31 05)

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

#### 31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 01 74 19 00-0052 for hauling greater than 15 miles.

31 05 16 00-0002 CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean) .....	43.79	
For Up To 8, Add	8.76	
For >8 To 16, Add	4.38	
For >48 To 64, Deduct	-2.81	
For >64 To 96, Deduct	-5.00	
For >96, Deduct	-7.19	
31 05 16 00-0003 CY #3 Stone Aggregate Fill (1" To 2" Clean) .....	45.64	
For Up To 8, Add	9.13	
For >8 To 16, Add	4.56	
For >48 To 64, Deduct	-2.90	
For >64 To 96, Deduct	-5.18	
For >96, Deduct	-7.46	
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean) .....	43.79	
For Up To 8, Add	8.76	
For >8 To 16, Add	4.38	
For >48 To 64, Deduct	-2.81	
For >64 To 96, Deduct	-5.00	
For >96, Deduct	-7.19	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean) .....	46.97	
For Up To 8, Add	9.39	
For >8 To 16, Add	4.70	
For >48 To 64, Deduct	-2.97	
For >64 To 96, Deduct	-5.31	
For >96, Deduct	-7.66	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean) .....	48.85	
For Up To 8, Add	9.77	
For >8 To 16, Add	4.89	
For >48 To 64, Deduct	-3.06	
For >64 To 96, Deduct	-5.50	
For >96, Deduct	-7.95	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1") .....	47.26	
For Up To 8, Add	9.45	
For >8 To 16, Add	4.73	
For >48 To 64, Deduct	-2.98	
For >64 To 96, Deduct	-5.34	
For >96, Deduct	-7.71	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1") .....	50.53	
For Up To 8, Add	10.11	
For >8 To 16, Add	5.05	
For >48 To 64, Deduct	-3.14	
For >64 To 96, Deduct	-5.67	
For >96, Deduct	-8.20	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4") .....	45.53	
For Up To 8, Add	9.11	
For >8 To 16, Add	4.55	
For >48 To 64, Deduct	-2.89	
For >64 To 96, Deduct	-5.17	
For >96, Deduct	-7.45	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2") .....	46.44	
For Up To 8, Add	9.29	
For >8 To 16, Add	4.64	
For >48 To 64, Deduct	-2.94	
For >64 To 96, Deduct	-5.26	
For >96, Deduct	-7.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2").....	46.84	
<i>For Up To 8, Add</i>	9.37	
<i>For &gt;8 To 16, Add</i>	4.68	
<i>For &gt;48 To 64, Deduct</i>	-2.96	
<i>For &gt;64 To 96, Deduct</i>	-5.30	
<i>For &gt;96, Deduct</i>	-7.64	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8").....	48.85	
<i>For Up To 8, Add</i>	9.77	
<i>For &gt;8 To 16, Add</i>	4.89	
<i>For &gt;48 To 64, Deduct</i>	-3.06	
<i>For &gt;64 To 96, Deduct</i>	-5.50	
<i>For &gt;96, Deduct</i>	-7.95	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8").....	49.41	
<i>For Up To 8, Add</i>	9.88	
<i>For &gt;8 To 16, Add</i>	4.94	
<i>For &gt;48 To 64, Deduct</i>	-3.09	
<i>For &gt;64 To 96, Deduct</i>	-5.56	
<i>For &gt;96, Deduct</i>	-8.03	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16").....	48.85	
<i>For Up To 8, Add</i>	9.77	
<i>For &gt;8 To 16, Add</i>	4.89	
<i>For &gt;48 To 64, Deduct</i>	-3.06	
<i>For &gt;64 To 96, Deduct</i>	-5.50	
<i>For &gt;96, Deduct</i>	-7.95	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (1/16" To 3/16").....	50.00	
<i>For Up To 8, Add</i>	10.00	
<i>For &gt;8 To 16, Add</i>	5.00	
<i>For &gt;48 To 64, Deduct</i>	-3.12	
<i>For &gt;64 To 96, Deduct</i>	-5.62	
<i>For &gt;96, Deduct</i>	-8.12	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (1/16" To 3/4").....	49.41	
<i>For Up To 8, Add</i>	9.88	
<i>For &gt;8 To 16, Add</i>	4.94	
<i>For &gt;48 To 64, Deduct</i>	-3.09	
<i>For &gt;64 To 96, Deduct</i>	-5.56	
<i>For &gt;96, Deduct</i>	-8.03	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill (3/16" Max) .....	41.21	
<i>For Up To 8, Add</i>	8.24	
<i>For &gt;8 To 16, Add</i>	4.12	
<i>For &gt;48 To 64, Deduct</i>	-2.68	
<i>For &gt;64 To 96, Deduct</i>	-4.74	
<i>For &gt;96, Deduct</i>	-6.80	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size.....	44.92	
<i>For Up To 8, Add</i>	8.98	
<i>For &gt;8 To 16, Add</i>	4.49	
<i>For &gt;48 To 64, Deduct</i>	-2.86	
<i>For &gt;64 To 96, Deduct</i>	-5.11	
<i>For &gt;96, Deduct</i>	-7.36	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill .....	44.92	
<i>For Up To 8, Add</i>	8.98	
<i>For &gt;8 To 16, Add</i>	4.49	
<i>For &gt;48 To 64, Deduct</i>	-2.86	
<i>For &gt;64 To 96, Deduct</i>	-5.11	
<i>For &gt;96, Deduct</i>	-7.36	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size.....	48.62	
<i>For Up To 8, Add</i>	9.72	
<i>For &gt;8 To 16, Add</i>	4.86	
<i>For &gt;48 To 64, Deduct</i>	-3.05	
<i>For &gt;64 To 96, Deduct</i>	-5.48	
<i>For &gt;96, Deduct</i>	-7.91	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill .....	51.26	
<i>For Up To 8, Add</i>	10.25	
<i>For &gt;8 To 16, Add</i>	5.13	
<i>For &gt;48 To 64, Deduct</i>	-3.18	
<i>For &gt;64 To 96, Deduct</i>	-5.74	
<i>For &gt;96, Deduct</i>	-8.31	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus) .....	28.31	
<i>For Up To 8, Add</i>	5.66	
<i>For &gt;8 To 16, Add</i>	2.83	
<i>For &gt;48 To 64, Deduct</i>	-2.03	
<i>For &gt;64 To 96, Deduct</i>	-3.45	
<i>For &gt;96, Deduct</i>	-4.86	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus) .....	31.22	
<i>For Up To 8, Add</i>	6.24	
<i>For &gt;8 To 16, Add</i>	3.12	
<i>For &gt;48 To 64, Deduct</i>	-2.18	
<i>For &gt;64 To 96, Deduct</i>	-3.74	
<i>For &gt;96, Deduct</i>	-5.30	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus) .....	29.33	
<i>For Up To 8, Add</i>	5.87	
<i>For &gt;8 To 16, Add</i>	2.93	
<i>For &gt;48 To 64, Deduct</i>	-2.08	
<i>For &gt;64 To 96, Deduct</i>	-3.55	
<i>For &gt;96, Deduct</i>	-5.02	

**31 Earthwork****31 05 Common Work Results For Earthwork****31 05 16 Aggregates For Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025 CY Silica Sand #20 (For Playground Use Only).....	199.44	
For Up To 8, Add	39.89	
For >8 To 16, Add	19.94	
For >48 To 64, Deduct	-10.59	
For >64 To 96, Deduct	-20.56	
For >96, Deduct	-30.53	
31 05 16 00-0026 CY Graded Aggregate Base Fill (3/4" Minus) Class II Base.....	50.53	
For Up To 8, Add	10.11	
For >8 To 16, Add	5.05	
For >48 To 64, Deduct	-3.14	
For >64 To 96, Deduct	-5.67	
For >96, Deduct	-8.20	

**31 05 36 Equipment Delivery, Pickup, Mobilization And Demobilization (31)**

(05)  
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

**31 10 Site Clearing (31)****31 11 Clearing And Grubbing (31 10)****31 11 00 00-0001 Clear And Grub Roots And Stumps (31 11)**

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002 ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip.....	6,785.63	
Note: Includes grub and removal of stump		
31 11 00 00-0003 ACR Clear And Grub Light Stumps Only Up To 6" Diameter.....	1,654.95	
31 11 00 00-0004 ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip.....	7,916.57	
Note: Includes grub and removal of stump		
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter.....	2,758.24	
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip.....	8,996.10	
Note: Includes grub and removal of stump		
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter.....	3,134.74	
31 11 00 00-0008 ACR Clearing By Machine - Light Brush Without Grub.....	265.81	
31 11 00 00-0009 ACR Clearing By Machine - Medium Brush Without Grub.....	543.97	
31 11 00 00-0010 ACR Clearing By Machine - Heavy Brush Without Grub.....	771.40	
31 11 00 00-0011 ACR Chipping - Light Brush.....	2,111.46	
31 11 00 00-0012 ACR Chipping - Medium Brush.....	2,714.87	
31 11 00 00-0013 ACR Chipping - Heavy Brush.....	3,801.17	

**31 11 00 00-0014 Loading Of Cleared And Grubbed Material (31 11)**

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

31 11 00 00-0015 CY Machine Loading Of Cleared And Grubbed Material.....	9.20	
31 11 00 00-0016 CY Chute Loading Of Cleared And Grubbed Material.....	11.05	
31 11 00 00-0017 CY Hand Loading Of Cleared And Grubbed Material.....	33.49	
31 11 00 00-0018 CY Wheel And Ramp Loading Of Cleared And Grubbed Material.....	26.31	

**31 13 Selective Tree And Shrub Removal And Trimming (31 10)****31 13 13 Selective Tree And Shrub Removal (31 13)****31 13 13 00-0001 Individual Tree Removal (31 13 13)**

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal.....	494.79	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal.....	742.18	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal.....	989.57	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal.....	1,484.36	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal.....	1,979.14	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal.....	2,473.92	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-618.48	
31 13 13 00-0008 EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal.....	2,968.71	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-742.18	
31 13 13 00-0009 EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal.....	3,958.29	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-989.57	

**31 13 13 00-0010 Stump Removal (31 13 13)**

Note: Measured by diameter of stump.

**31 13 13 00-0011 Stump Removal By Machine (31 13 13 00-0010)**



<b>Earthwork</b>	<b>31</b>	<b>15</b>
Site Clearing	31 10	
Selective Tree And Shrub Removal And Trimming	31 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0012 EA Up To 6" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	82.74	
31 13 13 00-0013 EA >6" To 12" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	158.60	
31 13 13 00-0014 EA >12" To 24" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	206.86	
31 13 13 00-0015 EA >24" To 36" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	310.31	
31 13 13 00-0016 EA >36" To 48" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	365.49	
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	430.28	
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	510.27	
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal ..... Note: Includes excavation necessary to remove stump and loading.	599.92	
<b>31 13 13 00-0020 Stump Removal By Hand</b> <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	518.28	
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	647.85	
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	950.18	
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,295.70	
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,727.60	
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,159.51	
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,591.40	
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,023.30	
<b>31 13 13 00-0029 Stump Grinding</b> <small>(31 13 13)</small> Note: Measured by diameter of stump.		
<b>31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil</b> <small>(31 13 13 00-0029)</small> Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree ..... <i>For 24" Depth, Add</i>	96.15 19.23	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree ..... <i>For 24" Depth, Add</i>	128.20 25.64	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree ..... <i>For 24" Depth, Add</i>	144.23 28.85	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree ..... <i>For 24" Depth, Add</i>	160.25 32.05	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree ..... <i>For 24" Depth, Add</i>	172.27 34.45	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree ..... <i>For 24" Depth, Add</i>	184.29 36.86	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree ..... <i>For 24" Depth, Add</i>	200.32 40.06	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree ..... <i>For 24" Depth, Add</i>	217.31 43.46	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree ..... <i>For 24" Depth, Add</i>	241.45 48.29	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree ..... <i>For 24" Depth, Add</i>	257.56 51.51	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree ..... <i>For 24" Depth, Add</i>	289.74 57.95	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree ..... <i>For 24" Depth, Add</i>	321.94 64.39	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree ..... <i>For 24" Depth, Add</i>	402.43 80.49	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree ..... <i>For 24" Depth, Add</i>	503.03 100.61	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree ..... <i>For 24" Depth, Add</i>	643.88 128.78	

**31 13 16 Selective Tree And Shrub Trimming** (31 13)



<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 10</b>	<b>Site Clearing</b>
	<b>31 13</b>	<b>Selective Tree And Shrub Removal And Trimming</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 13 16 00-0001</b>	<b>Tree Trimming For Pole Line Construction And Maintenance</b> <small>(31 13 16)</small>	
	Note: Area to be vertical cleared (to include overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.	
31 13 16 00-0002	LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction.....	1.63
31 13 16 00-0003	LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction .....	2.43
31 13 16 00-0004	LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	2.87

**31 20 Earth Moving** (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

**31 23 Excavation And Fill** (31 20)

**31 23 16 Excavation** (31 23)

**31 23 16 13 Trenching** (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

<b>31 23 16 13-0001</b>	<b>Excavation For Trenching By Machine</b> <small>(31 23 16 13)</small>	
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0002	CY 12" Wide or Less, Excavation for Trenching by Machine in Soil .....	8.94
	<i>For Excavation In Light Material (Class A), Deduct</i>	-1.12
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	3.58
	<i>For Up To 20, Add</i>	7.15
	<i>For &gt;20 To 50, Add</i>	4.47
	<i>For &gt;50 To 250, Add</i>	2.24
	<i>For &gt;500 To 1,000, Deduct</i>	-1.34
	<i>For &gt;1,000, Deduct</i>	-2.68
31 23 16 13-0003	CY Over 12" Wide, Excavation for Trenching by Machine in Soil .....	5.68
	<i>For Excavation In Light Material (Class A), Deduct</i>	-0.71
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	2.27
	<i>For Up To 20, Add</i>	4.54
	<i>For &gt;20 To 50, Add</i>	2.84
	<i>For &gt;50 To 250, Add</i>	1.42
	<i>For &gt;500 To 1,000, Deduct</i>	-0.85
	<i>For &gt;1,000, Deduct</i>	-1.70
31 23 16 13-0004	CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock.....	14.79
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	11.83
	<i>For &gt;20 To 50, Add</i>	7.40
	<i>For &gt;50 To 250, Add</i>	3.70
	<i>For &gt;500 To 1,000, Deduct</i>	-2.22
	<i>For &gt;1,000, Deduct</i>	-4.44
31 23 16 13-0005	CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock .....	10.08
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	8.06
	<i>For &gt;20 To 50, Add</i>	5.04
	<i>For &gt;50 To 250, Add</i>	2.52
	<i>For &gt;500 To 1,000, Deduct</i>	-1.51
	<i>For &gt;1,000, Deduct</i>	-3.02
<b>31 23 16 13-0006</b>	<b>Excavation For Trenching By Hand</b> <small>(31 23 16 13)</small>	
31 23 16 13-0007	CY Excavation For Trenching By Hand In Soil.....	110.52
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate .....	189.58
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
<b>31 23 16 13-0009</b>	<b>Backfilling Or Placing Subbase For Trenches</b> <small>(31 23 16 13)</small>	
	Note: With imported or stockpiled materials.	
31 23 16 13-0010	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine .....	3.27
	<i>For Up To 20, Add</i>	2.62
	<i>For &gt;20 To 50, Add</i>	1.64
	<i>For &gt;50 To 250, Add</i>	0.82
	<i>For &gt;500 To 1,000, Deduct</i>	-0.49
	<i>For &gt;1,000, Deduct</i>	-0.98
31 23 16 13-0011	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	30.70
<b>31 23 16 13-0012</b>	<b>Compaction Of Fill Or Subbase For Trenches</b> <small>(31 23 16 13)</small>	
	Note: Includes restoration of final grade.	



<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation And Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	6.39	
For Up To 20, Add	5.11	
For >20 To 50, Add	3.20	
For >50 To 250, Add	1.60	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.92	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand.....	34.63	
<b>31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches</b> (31 23 16 13)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching.....	5.68	
For Up To 20, Add	4.54	
For >20 To 50, Add	2.84	
For >50 To 250, Add	1.42	
For >500 To 1,000, Deduct	-0.85	
For >1,000, Deduct	-1.70	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching.....	81.04	
<b>31 23 16 13-0018 Spread Excess Or Imported Material For Trenches</b> (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine.....	2.67	
For Up To 20, Add	2.14	
For >20 To 50, Add	1.34	
For >50 To 250, Add	0.67	
For >500 To 1,000, Deduct	-0.40	
For >1,000, Deduct	-0.80	
<b>31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine</b> (31 23 16 13)		
Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep .....	1.93	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep .....	2.12	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep .....	3.02	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep .....	3.41	
<b>31 23 16 13-0025 Utility Chain Trencher</b> (31 23 16 13)		
<b>31 23 16 13-0026 Utility Trench, Chain Trencher</b> (31 23 16 13-0025)		
Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	1.11	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.17	
For >500, Deduct	-0.33	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	1.21	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.18	
For >500, Deduct	-0.36	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	1.25	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500, Deduct	-0.38	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	1.32	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.20	
For >500, Deduct	-0.40	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	1.45	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500, Deduct	-0.44	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	1.65	
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.25	
For >500, Deduct	-0.50	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher .....	1.98	
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.30	
For >500, Deduct	-0.59	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	1.88	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.28	
For >500, Deduct	-0.56	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	2.21	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.33	
For >500, Deduct	-0.66	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	2.51	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.38	
For >500, Deduct	-0.75	

<b>31</b>	<b>Earthwork</b>
<b>31 20</b>	<b>Earth Moving</b>
<b>31 23</b>	<b>Excavation And Fill</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher .....	2.97	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.89	
<b>31 23 16 13-0038 Backfill Trenches With Compaction</b> (31 23 16 13-0025)		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction .....	0.17	
For >100 To 250, Deduct	-0.01	
For >250 To 500, Deduct	-0.03	
For >500, Deduct	-0.05	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction .....	0.27	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.04	
For >500, Deduct	-0.08	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction .....	0.36	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.11	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction .....	0.27	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.04	
For >500, Deduct	-0.08	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction .....	0.36	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.11	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction .....	0.54	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.08	
For >500, Deduct	-0.16	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction .....	0.77	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.12	
For >500, Deduct	-0.23	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction .....	0.36	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.11	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction .....	0.54	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.08	
For >500, Deduct	-0.16	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction .....	0.72	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.11	
For >500, Deduct	-0.22	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction .....	1.08	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.16	
For >500, Deduct	-0.32	
<b>31 23 16 26 Rock Removal</b> (31 23 16)		
<b>31 23 16 26-0001 Rock Breaking By Machine</b> (31 23 16 26)		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone).....	20.82	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	22.20	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt).....	26.36	
<b>31 23 16 33 Bulk Excavation</b> (31 23 16)		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
<b>31 23 16 33-0001 Excavation</b> (31 23 16 33)		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil.....	8.36	
For Excavation In Light Material (Class A), Deduct	-1.05	
For Excavation In Heavy/Wet Material (Class C), Add	3.34	
For >1,000, Deduct	-1.25	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil.....	4.58	
For Excavation In Light Material (Class A), Deduct	-0.57	
For Excavation In Heavy/Wet Material (Class C), Add	1.83	
For >1,000, Deduct	-0.69	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock.....	10.29	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.54	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	5.63	
Note: Includes compacted aggregate		
For >1,000, Deduct	-0.84	
<b>31 23 16 33-0006 Spreading, Shaping And Rough Grading</b> (31 23 16 33)		
Note: Imported or stockpiled material for bulk excavation.		



<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation And Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine ..... <i>For &gt;1,000, Deduct</i>	5.16 -0.77	
<b>31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations</b> <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine ..... <i>For &gt;1,000, Deduct</i>	5.74 -0.86	
<b>31 23 16 33-0010 Relocating On Site Excavated Material From Excavation</b> <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' ..... <i>For &gt;1,000, Deduct</i>	4.59 -0.69	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' ..... <i>For &gt;1,000, Deduct</i>	6.88 -1.03	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' ..... <i>For &gt;1,000, Deduct</i>	10.33 -1.55	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000' ..... <i>For &gt;1,000, Deduct</i>	13.77 -2.07	
<b>31 23 16 33-0015 Finish Grading</b> <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.58	
<b>31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift</b> <small>(31 23 16 33)</small> Note: For bulk excavation. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine ..... Note: Per Lift	0.58	
<b>31 23 16 33-0019 Loading Excess Material For Removal From Excavation</b> <small>(31 23 16 33)</small> Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation ..... <i>For &gt;1,000, Deduct</i>	4.55 -0.68	
<b>31 23 16 36 Excavation For Building Foundations And Other Structures</b> <small>(31 23 16)</small> Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
<b>31 23 16 36-0001 Excavation</b> <small>(31 23 16 36)</small> Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
<b>31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader</b> <small>(31 23 16 36-0001)</small>		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil ..... <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 250, Add</i> <i>For &gt;250 To 500, Add</i>	7.61 -0.95 3.04 7.61 5.71 3.04 1.14	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock ..... Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 250, Add</i> <i>For &gt;250 To 500, Add</i>	9.50 9.50 7.13 3.80 1.43	
<b>31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader</b> <small>(31 23 16 36-0001)</small>		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil ..... <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 250, Add</i> <i>For &gt;250 To 500, Add</i>	5.50 -0.69 2.20 5.50 4.13 2.20 0.83	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock ..... Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 250, Add</i> <i>For &gt;250 To 500, Add</i>	6.54 6.54 4.91 2.62 0.98	

<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 20</b>	<b>Earth Moving</b>
	<b>31 23</b>	<b>Excavation And Fill</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 23 16 36-0008</b> <b>Excavation For Building Foundations And Other Structures By Hand</b> <small>(31 23 16 36-0001)</small>		
<i>Note: For areas not accessible by machine and only with owner's approval.</i>		
31 23 16 36-0009    CY    Excavation For Building Foundations And Other Structures By Hand in Soil.....	110.52	
<i>For Excavation In Light Material (Class A), Deduct</i>		
	-13.82	
<i>For Excavation In Heavy/Wet Material (Class C), Add</i>		
	44.21	
31 23 16 36-0010    CY    Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	189.58	
<i>Note: Includes compacted aggregate</i>		
<b>31 23 16 36-0011</b> <b>Relocating On Site Excavated Material From Excavation</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures over 100'.</i>		
31 23 16 36-0012    CY    Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300' .....	4.59	
<i>For Up To 20, Add</i>		
	4.59	
<i>For &gt;20 To 50, Add</i>		
	3.44	
<i>For &gt;50 To 250, Add</i>		
	1.84	
<i>For &gt;250 To 500, Add</i>		
	0.69	
31 23 16 36-0013    CY    Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500' .....	6.88	
<i>For Up To 20, Add</i>		
	6.88	
<i>For &gt;20 To 50, Add</i>		
	5.16	
<i>For &gt;50 To 250, Add</i>		
	2.75	
<i>For &gt;250 To 500, Add</i>		
	1.03	
31 23 16 36-0014    CY    Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000' .....	10.33	
<i>For Up To 20, Add</i>		
	10.33	
<i>For &gt;20 To 50, Add</i>		
	7.75	
<i>For &gt;50 To 250, Add</i>		
	4.13	
<i>For &gt;250 To 500, Add</i>		
	1.55	
31 23 16 36-0015    CY    Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000' .....	13.77	
<i>For Up To 20, Add</i>		
	13.77	
<i>For &gt;20 To 50, Add</i>		
	10.33	
<i>For &gt;50 To 250, Add</i>		
	5.51	
<i>For &gt;250 To 500, Add</i>		
	2.07	
<b>31 23 16 36-0016</b> <b>Backfilling</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.</i>		
31 23 16 36-0017    CY    Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader.....	3.77	
<i>For Up To 20, Add</i>		
	3.77	
<i>For &gt;20 To 50, Add</i>		
	2.83	
<i>For &gt;50 To 250, Add</i>		
	1.51	
<i>For &gt;250 To 500, Add</i>		
	0.57	
31 23 16 36-0018    CY    Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader.....	4.26	
<i>For Up To 20, Add</i>		
	4.26	
<i>For &gt;20 To 50, Add</i>		
	3.20	
<i>For &gt;50 To 250, Add</i>		
	1.70	
<i>For &gt;250 To 500, Add</i>		
	0.64	
31 23 16 36-0019    CY    Backfilling Around Building Foundations And Other Structures By Hand.....	52.63	
<b>31 23 16 36-0020</b> <b>Compaction Of Fill Or Subbase</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.</i>		
31 23 16 36-0021    CY    Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera .....	10.13	
<i>For Up To 20, Add</i>		
	10.13	
<i>For &gt;20 To 50, Add</i>		
	7.60	
<i>For &gt;50 To 250, Add</i>		
	4.05	
<i>For &gt;250 To 500, Add</i>		
	1.52	
31 23 16 36-0022    CY    Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand .....	34.63	
<b>31 23 16 36-0023</b> <b>Grading</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures.</i>		
31 23 16 36-0024    SY    Rough Grading For Building Foundations And Other Structures by Machine .....	0.99	
31 23 16 36-0025    SY    Finish Grading For Building Foundations And Other Structures by Machine .....	1.59	
31 23 16 36-0026    SY    Finish Grading For Building Foundations And Other Structures by Hand .....	10.23	
<b>31 23 16 36-0027</b> <b>Loading Excess Material For Removal From Excavation</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.</i>		
31 23 16 36-0028    CY    Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine .....	4.74	
<i>For Up To 20, Add</i>		
	4.74	
<i>For &gt;20 To 50, Add</i>		
	3.56	
<i>For &gt;50 To 250, Add</i>		
	1.90	
<i>For &gt;250 To 500, Add</i>		
	0.71	
31 23 16 36-0029    CY    Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand .....	81.04	
<b>31 23 16 36-0030</b> <b>Spread Material</b> <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures.</i>		





<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation And Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine.....	2.67	
<i>For Up To 20, Add</i>	2.67	
<i>For &gt;20 To 50, Add</i>	2.00	
<i>For &gt;50 To 250, Add</i>	1.07	
<i>For &gt;250 To 500, Add</i>	0.40	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand .....	44.72	
<b>31 23 19 Dewatering (31 23)</b>		
31 23 19 00-0001 Well Point Dewatering System (31 23 19)		
31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001)		
Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal .....	109.20	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal .....	60.07	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal .....	54.60	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal .....	49.15	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal .....	43.68	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal .....	38.23	
<b>31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)</b>		
Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity) .....	1.78	
<i>For &gt;5 Days And &lt;1 Month, Deduct</i>	-0.39	
<i>For &gt;1 Month, Deduct</i>	-0.50	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity) .....	1.04	
<i>For &gt;5 Days And &lt;1 Month, Deduct</i>	-0.23	
<i>For &gt;1 Month, Deduct</i>	-0.29	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity) .....	0.74	
<i>For &gt;5 Days And &lt;1 Month, Deduct</i>	-0.16	
<i>For &gt;1 Month, Deduct</i>	-0.21	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity) .....	0.54	
<i>For &gt;5 Days And &lt;1 Month, Deduct</i>	-0.12	
<i>For &gt;1 Month, Deduct</i>	-0.15	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity) .....	0.49	
<i>For &gt;5 Days And &lt;1 Month, Deduct</i>	-0.11	
<i>For &gt;1 Month, Deduct</i>	-0.14	
<b>31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)</b>		
Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs .....	101.16	
<b>31 23 23 Fill (31 23)</b>		
<b>31 23 23 23 Compaction (31 23 23)</b>		
31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)		
31 23 23 23-0002 MGL Compaction Water, Water Truck And Operator .....	164.08	
Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1218 for water truck when water is available on site.		
<b>31 23 23 33 Flowable Fill (31 23 23)</b>		
31 23 23 33-0001 Flowable Cement Backfill For Trenches (31 23 23 33)		
Note: Includes compaction and restoration of final grade.		
31 23 23 33-0002 CY Flowable Cement Backfill for Trenches.....	212.81	
<i>For Up To 20, Add</i>	76.39	
<i>For &gt;20 To 50, Add</i>	50.09	
<i>For &gt;50 To 250, Add</i>	25.05	
<i>For &gt;500 To 1,000, Deduct</i>	-13.15	
<i>For &gt;1,000, Deduct</i>	-26.30	
<b>31 24 Embankments (31 20)</b>		
<b>31 24 13 Roadway Embankments (31 24)</b>		
31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)		
Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

31 24 13 00-0002		<b>Cutting, Shaping And Rough Grading</b> <small>(31 24 13 00-0001)</small>		
		Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003		<b>Cutting, Shaping, And Rough Grading</b> <small>(31 24 13 00-0002)</small>		
31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	5.74	
		<i>For Up To 20, Add</i>	5.74	
		<i>For &gt;20 To 50, Add</i>	4.31	
		<i>For &gt;50 To 250, Add</i>	2.30	
		<i>For &gt;250 To 500, Add</i>	0.86	
		<i>For &gt;1,000, Deduct</i>	-0.86	
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	7.11	
		Note: Includes compacted aggregate		
		<i>For Up To 20, Add</i>	7.11	
		<i>For &gt;20 To 50, Add</i>	5.33	
		<i>For &gt;50 To 250, Add</i>	2.84	
		<i>For &gt;250 To 500, Add</i>	1.07	
		<i>For &gt;1,000, Deduct</i>	-1.07	
31 24 13 00-0006		<b>Cutting, Shaping, And Rough Grading By Hand</b> <small>(31 24 13 00-0002)</small>		
31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope .....	5.67	
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope.....	7.37	
31 24 13 00-0009		<b>Scarify Soil</b> <small>(31 24 13 00-0001)</small>		
		Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	5.31	
		<i>For Up To 20, Add</i>	2.66	
		<i>For &gt;20 To 50, Add</i>	1.33	
		<i>For &gt;250 To 500, Deduct</i>	-0.53	
		<i>For &gt;500, Deduct</i>	-1.06	
31 24 13 00-0011		<b>Relocating On Site Excavated Material</b> <small>(31 24 13 00-0001)</small>		
31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine .....	10.33	
		<i>For Up To 20, Add</i>	10.33	
		<i>For &gt;20 To 50, Add</i>	7.75	
		<i>For &gt;50 To 250, Add</i>	4.13	
		<i>For &gt;250 To 500, Add</i>	1.55	
		<i>For &gt;1,000, Deduct</i>	-1.55	
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine .....	13.77	
		<i>For Up To 20, Add</i>	13.77	
		<i>For &gt;20 To 50, Add</i>	10.33	
		<i>For &gt;50 To 250, Add</i>	5.51	
		<i>For &gt;250 To 500, Add</i>	2.07	
		<i>For &gt;1,000, Deduct</i>	-2.07	
31 24 13 00-0014		<b>Spread And Shape Imported Or Stockpiled Material</b> <small>(31 24 13 00-0001)</small>		
		Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine .....	6.31	
		<i>For Up To 20, Add</i>	6.31	
		<i>For &gt;20 To 50, Add</i>	4.73	
		<i>For &gt;50 To 250, Add</i>	2.52	
		<i>For &gt;250 To 500, Add</i>	0.95	
		<i>For &gt;1,000, Deduct</i>	-0.95	
31 24 13 00-0016		<b>Grading</b> <small>(31 24 13 00-0001)</small>		
		Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine .....	0.64	
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine .....	0.85	
31 24 13 00-0019	LF	Finish Grade For Curb .....	0.96	
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter .....	1.18	
31 24 13 00-0021		<b>Compaction Of Fill Or Subbase</b> <small>(31 24 13 00-0001)</small>		
		Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.58	
		<i>For Up To 250, Add</i>	0.58	
		<i>For &gt;250 To 500, Add</i>	0.44	
		<i>For &gt;500 To 1,000, Add</i>	0.23	
		<i>For &gt;5,000, Deduct</i>	-0.09	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Embankments</b>	<b>31 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 24 13 00-0023 Loading Excess Material For Removal From Excavation</b> <small>(31 24 13 00-0001)</small> Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine.....	4.55	
For Up To 20, Add	4.55	
For >20 To 50, Add	3.41	
For >50 To 250, Add	1.82	
For >250 To 500, Add	0.68	
For >1,000, Deduct	-0.68	
<b>31 25 Erosion And Sedimentation Controls</b> <small>(31 25)</small>		
<b>31 25 14 Stabilization Measures For Erosion And Sedimentation Control</b> <small>(31 25)</small>		
<b>31 25 14 13 Hydraulically-Applied Erosion Control</b> <small>(31 25 14)</small>		
<b>31 25 14 13-0001 Bonded Fiber Matrix</b> <small>(31 25 14 13)</small>		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied .....	43.37	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied .....	39.33	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied .....	35.90	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied.....	33.94	
<b>31 25 14 16 Rolled Erosion Control Mats And Blankets</b> <small>(31 25 14)</small> Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
<b>31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats</b> <small>(31 25 14 16)</small>		
<b>31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket.....	1.67	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket.....	2.03	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket.....	1.61	
Note: As manufactured by American Excelsior		
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket.....	1.67	
Note: As manufactured by American Green.		
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting .....	1.53	
<b>31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket .....	2.11	
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket .....	2.67	
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural.....	1.85	
Note: As manufactured by American Excelsior.		
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green .....	1.91	
Note: As manufactured by American Excelsior.		
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket .....	2.01	
Note: As manufactured by American Excelsior.		
<b>31 25 14 16-0014 Turf Reinforcement Mats (TRM)</b> <small>(31 25 14 16-0001)</small> Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat.....	9.34	
Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat .....	8.67	
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat.....	8.20	
Note: As manufactured by American Excelsior, 100% recycled		
<b>31 25 14 16-0018 Jute Mesh Erosion Control Blankets</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave .....	1.85	
<b>31 25 14 16-0020 Revegetation Mat</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber .....	6.72	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber .....	9.54	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.		
<b>31 25 14 16-0023 Erosion Control Rolls</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0024 SY Erosion Control Rolls, Mirafi 140N.....	1.64	

<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 20</b>	<b>Earth Moving</b>
	<b>31 25</b>	<b>Erosion And Sedimentation Controls</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 25 14 16-0025 SY Erosion Control Rolls, Amoco 4547 .....1.67

**31 25 14 23 Stabilization Measures For Erosion Control** (31 25 14)  
 See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

**31 25 14 23-0001 Sand Bags** (31 25 14 23)  
 Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG 50 LB Capacity Sand Bag With Sand.....	5.58	2.33
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.47	
	<i>For &gt;5,000, Deduct</i>	-1.02	
31 25 14 23-0003	BAG 75 LB Capacity Sand Bag With Sand.....	7.21	2.90
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.58	
	<i>For &gt;5,000, Deduct</i>	-1.30	
31 25 14 23-0004	BAG 100 LB Capacity Sand Bag With Sand.....	9.01	3.46
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.69	
	<i>For &gt;5,000, Deduct</i>	-1.59	
31 25 14 23-0005	BAG 125 LB Capacity Sand Bag With Sand.....	11.13	4.32
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.87	
	<i>For &gt;5,000, Deduct</i>	-1.98	
31 25 14 23-0006	BAG 150 LB Capacity Sand Bag With Sand.....	13.50	5.19
	<i>For &gt;2,500 To 5,000, Deduct</i>	-1.04	
	<i>For &gt;5,000, Deduct</i>	-2.39	
31 25 14 23-0007	BAG 175 LB Capacity Sand Bag With Sand.....	15.63	5.90
	<i>For &gt;2,500 To 5,000, Deduct</i>	-1.18	
	<i>For &gt;5,000, Deduct</i>	-2.74	
31 25 14 23-0008	BAG 2,000 LB Capacity Sand Bag With Sand.....	117.44	39.95
	<i>For &gt;2,500 To 5,000, Deduct</i>	-7.14	
	<i>For &gt;5,000, Deduct</i>	-18.88	
31 25 14 23-0009	BAG 3,000 LB Capacity Sand Bag With Sand.....	153.25	43.95
	<i>For &gt;2,500 To 5,000, Deduct</i>	-7.85	
	<i>For &gt;5,000, Deduct</i>	-23.18	

**31 25 14 23-0010 Gravel Bags** (31 25 14 23)  
 Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0011	BAG 30 LB Capacity Gravel Bag With Gravel.....	4.97	1.54
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.31	
	<i>For &gt;5,000, Deduct</i>	-0.80	
31 25 14 23-0012	BAG 50 LB Capacity Gravel Bag With Gravel.....	8.58	2.33
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.47	
	<i>For &gt;5,000, Deduct</i>	-1.32	

**31 25 14 23-0013 Floating Turbidity Curtain** (31 25 14 23)  
 Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.

31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	20.93	
	<i>For Type 1, Deduct</i>	-3.22	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-1.96	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.38	
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	22.67	
	<i>For Type 1, Deduct</i>	-3.54	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.16	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.62	
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	25.08	
	<i>For Type 1, Deduct</i>	-4.02	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.44	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.97	
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	27.14	
	<i>For Type 1, Deduct</i>	-4.40	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.68	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.25	
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	28.48	
	<i>For Type 1, Deduct</i>	-4.62	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.81	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.41	
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	29.83	
	<i>For Type 1, Deduct</i>	-4.83	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.94	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.57	
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	31.39	
	<i>For Type 1, Deduct</i>	-5.09	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.10	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.76	
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	33.53	
	<i>For Type 1, Deduct</i>	-5.48	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.33	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.05	
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	35.24	
	<i>For Type 1, Deduct</i>	-5.76	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.50	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0023 LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	37.51	
<i>For Type 1, Deduct</i>	-6.16	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.75	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.56	
31 25 14 23-0024 LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	39.65	
<i>For Type 1, Deduct</i>	-6.53	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.97	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.83	
31 25 14 23-0025 LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	41.71	
<i>For Type 1, Deduct</i>	-6.87	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.18	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.08	
31 25 14 23-0026 LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	45.38	
<i>For Type 1, Deduct</i>	-7.58	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.62	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.60	
31 25 14 23-0027 LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	47.57	
<i>For Type 1, Deduct</i>	-7.95	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.84	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.87	
31 25 14 23-0028 LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	49.73	
<i>For Type 1, Deduct</i>	-8.29	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.05	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.13	
31 25 14 23-0029 LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	52.00	
<i>For Type 1, Deduct</i>	-8.66	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.27	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.40	
31 25 14 23-0030 LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....	54.22	
<i>For Type 1, Deduct</i>	-9.00	
<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.48	
<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.65	
<b>31 25 14 23-0031 Turbidity Curtain Anchors <small>(31 25 14 23)</small></b>		
31 25 14 23-0032 EA 14 LB, Turbidity Curtain Anchor System .....	559.71	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033 EA 25 LB, Turbidity Curtain Anchor System .....	767.02	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034 EA 40 LB, Turbidity Curtain Anchor System .....	975.22	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035 EA 65 LB, Turbidity Curtain Anchor System .....	1,275.08	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
<b>31 25 14 23-0036 Filter Bags <small>(31 25 14 23)</small></b>		
<b>31 25 14 23-0037 Non-Woven Filter Bags <small>(31 25 14 23-0036)</small></b>		
31 25 14 23-0038 EA 6' x 15' Non-Woven Filter Bag .....	148.86	
31 25 14 23-0039 EA 13' x 15' Non-Woven Filter Bag .....	214.79	
31 25 14 23-0040 EA 15' x 15' Non-Woven Filter Bag .....	247.67	
<b>31 25 14 23-0041 Monofilament Filter Bags <small>(31 25 14 23-0036)</small></b>		
31 25 14 23-0042 EA 5' x 15' Monofilament Filter Bag .....	154.55	
31 25 14 23-0043 EA 10' x 15' Monofilament Filter Bag .....	213.26	
<b>31 25 14 23-0044 Cable Articulating Concrete Block <small>(31 25 14 23)</small></b>		
Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal retvetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045 SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill .....	35.19	
<i>For Up To 500, Add</i>	7.98	
<i>For &gt;500 To 1,000, Add</i>	4.46	
31 25 14 23-0046 SF 6" Open Cell Articulated Concrete Block With Earth Backfill .....	40.17	
<i>For Up To 500, Add</i>	9.06	
<i>For &gt;500 To 1,000, Add</i>	5.04	
31 25 14 23-0047 SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill .....	45.88	
<i>For Up To 500, Add</i>	10.30	
<i>For &gt;500 To 1,000, Add</i>	5.72	
31 25 14 23-0048 SF 9" Open Cell Articulated Concrete Block With Earth Backfill .....	51.71	
<i>For Up To 500, Add</i>	11.59	
<i>For &gt;500 To 1,000, Add</i>	6.42	
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block .....	37.67	
<i>For Up To 500, Add</i>	8.47	
<i>For &gt;500 To 1,000, Add</i>	4.71	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block .....	43.12	
<i>For Up To 500, Add</i>	9.65	
<i>For &gt;500 To 1,000, Add</i>	5.34	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block .....	49.38	
<i>For Up To 500, Add</i>	11.00	
<i>For &gt;500 To 1,000, Add</i>	6.07	



<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 20</b>	<b>Earth Moving</b>
	<b>31 25</b>	<b>Erosion And Sedimentation Controls</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block .....	55.71	
For Up To 500, Add	12.39	
For >500 To 1,000, Add	6.82	
<b>31 25 14 26 Stabilization Measures For Sedimentation Control (31 25 14)</b>		
<b>31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26)</b>		
Note: Includes stakes and embedding.		
<b>31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001)</b>		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center.....	2.64	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center.....	2.06	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center.....	1.48	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center.....	1.27	
<b>31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001)</b>		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center.....	2.73	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center.....	2.22	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center.....	1.32	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center.....	1.34	
<b>31 25 14 26-0012 Silt Dike Barrier (31 25 14 26-0001)</b>		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes .....	3.11	
<b>31 25 14 26-0014 Silt Fences Removal (31 25 14 26-0001)</b>		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes .....	0.73	
<b>31 25 14 26-0016 Hay And Straw Bales (31 25 14 26)</b>		
Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales .....	4.30	
Note: Includes securing in ground with stakes.		
31 25 14 26-0018 LF Place Hay Bales.....	3.97	
Note: Includes securing in ground with stakes.		
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes.....	11.91	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales.....	1.31	
Note: Includes removal of stakes.		
<b>31 25 14 26-0021 Sediment Logs (Degradable) (31 25 14 26)</b>		
<b>31 25 14 26-0022 Sediment Logs (Degradable) (31 25 14 26-0021)</b>		
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 12" Sediment Log.....	7.26	
31 25 14 26-0024 LF 20" Sediment Log.....	8.48	
<b>31 25 14 26-0025 Wattles (Degradable) (31 25 14 26-0021)</b>		
Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0026 EA Wattles (Sterile Straw Filled Rolls), 9" x 25' .....	132.94	
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 12" x 20' .....	125.13	
<b>31 25 14 26-0028 Fiber Roll (CALTRANS Type 1) (31 25 14 26)</b>		
Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0029 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	5.63	
For >1,000 To 10,000, Deduct	-0.65	
For >10,000, Deduct	-1.10	
31 25 14 26-0030 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.33	
For >1,000 To 10,000, Deduct	-0.67	
For >10,000, Deduct	-1.14	
31 25 14 26-0031 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.91	
For >1,000 To 10,000, Deduct	-0.80	
For >10,000, Deduct	-1.36	
<b>31 25 14 26-0032 Fiber Roll (CALTRANS Type 2) (31 25 14 26)</b>		
Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0033 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	4.81	
For >1,000 To 10,000, Deduct	-0.53	
For >10,000, Deduct	-0.89	
31 25 14 26-0034 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.48	
For >1,000 To 10,000, Deduct	-0.55	
For >10,000, Deduct	-0.93	
31 25 14 26-0035 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.42	
For >1,000 To 10,000, Deduct	-0.58	
For >10,000, Deduct	-0.99	



<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Erosion And Sedimentation Controls</b>	<b>31 25</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 25 14 26-0036</b> <b>Inlet Protection Sediment Bags</b> <sup>(31 25 14 26)</sup> Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0037    EA    2' x 2' x 3' Inlet Protection Sediment Bag .....	45.54	
31 25 14 26-0038    EA    2' x 3' x 3' Inlet Protection Sediment Bag .....	56.37	
31 25 14 26-0039    EA    2' x 4' x 3' Inlet Protection Sediment Bag .....	68.81	
<b>31 25 14 26-0040</b> <b>Clean Sediment Logs/Wattles</b> <sup>(31 25 14 26)</sup> Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0041    EA    Clean Sediment Logs/Wattles .....	73.69	
<b>31 30 Earthwork Methods</b> <sup>(31)</sup>		
<b>31 31 Soil Treatment</b> <sup>(31 30)</sup>		
<b>31 31 16 Termite Control</b> <sup>(31 31)</sup>		
<b>31 31 16 13 Chemical Termite Control</b> <sup>(31 31 16)</sup>		
<b>31 31 16 13-0001 Commercial Use</b> <sup>(31 31 16 13)</sup>		
31 31 16 13-0002    SF    Termite Pretreatment, Commercial Soil Poisoning Under Slab .....	0.76	
31 31 16 13-0003    SF    Termite Pretreatment, Commercial Slab And Walls .....	0.76	
<b>31 31 16 13-0004 Residential Use</b> <sup>(31 31 16 13)</sup>		
31 31 16 13-0005    SF    Termite Pretreatment, Residential General Spraying Walls And Slab .....	0.74	
31 31 16 13-0006    SF    Termite Treatment, Existing Residential Structure .....	1.02	
<b>31 31 19 Vegetation Control</b> <sup>(31 31)</sup>		
<b>31 31 19 13 Chemical Vegetation Control</b> <sup>(31 31 19)</sup>		
<b>31 31 19 13-0001 Soil Sterilants</b> <sup>(31 31 19 13)</sup>		
31 31 19 13-0002    MSF    Soil Sterilant .....	21.08	
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct	-0.39	
For >90 To 225, Deduct	-1.83	
For >225, Deduct	-2.60	
<b>31 32 Soil Stabilization</b> <sup>(31 30)</sup>		
<b>31 32 13 Soil Mixing Stabilization</b> <sup>(31 32)</sup>		
<b>31 32 13 16 Cement Soil Stabilization</b> <sup>(31 32 13)</sup>		
<b>31 32 13 16-0001 Soil Cement Course</b> <sup>(31 32 13 16)</sup> Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.		
31 32 13 16-0002    CY    Compacted Soil Cement Course, Material mixed in Central Plant .....	54.47	
31 32 13 16-0003    CY    Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement .....	57.06	
31 32 13 16-0004    LB    Cement, Per Unit Of Measure .....	0.06	
31 32 13 16-0005    LB    Flake Calcium Chloride, Per Unit Of Measure .....	0.47	
31 32 13 16-0006    EA    Mobilize And Demobilize Traveling Pugmill .....	150.00	
<b>31 32 13 16-0007 Cementitious Soil Binder</b> <sup>(31 32 13 16)</sup>		
31 32 13 16-0008    CY    Cementitious Soil Binder, 4% Cement Mix By Volume .....	33.03	
31 32 13 16-0009    CY    Cementitious Soil Binder, 6% Cement Mix By Volume .....	38.46	
31 32 13 16-0010    CY    Cementitious Soil Binder, 9% Cement Mix By Volume .....	47.40	
31 32 13 16-0011    CY    Cementitious Soil Binder, 12% Cement Mix By Volume .....	56.21	
<b>31 32 13 19 Lime Soil Stabilization</b> <sup>(31 32 13)</sup> Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
<b>31 32 13 19-0001 Lime Slurry</b> <sup>(31 32 13 19)</sup>		
31 32 13 19-0002    LCY    Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume .....	28.90	
31 32 13 19-0003    TON    Cement Stabilized Base Material .....	123.03	
31 32 13 19-0004    CWT    Lime For Soil Stabilization .....	20.31	
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005    LCY    Roller, Grader - Lime Stabilization .....	13.49	
31 32 13 19-0006    LCY    Roller, Grader - Cement Stabilization .....	3.22	
<b>31 32 13 19-0007 Lime Stabilized Subgrade</b> <sup>(31 32 13 19)</sup> Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).		

<b>31</b>	<b>Earthwork</b>
<b>31 30</b>	<b>Earthwork Methods</b>
<b>31 32</b>	<b>Soil Stabilization</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 19-0008 SY 6" Thick Lime Stabilized Subgrade, 25 LB .....	11.36	
For 4% Lime Instead Of 5%, Deduct	-0.36	
For 6% Lime Instead Of 5%, Add	0.36	
31 32 13 19-0009 SY 7" Thick Lime Stabilized Subgrade, 29 LB .....	13.16	
For 4% Lime Instead Of 5%, Deduct	-0.42	
For 6% Lime Instead Of 5%, Add	0.42	
31 32 13 19-0010 SY 8" Thick Lime Stabilized Subgrade, 33 LB .....	15.02	
For 4% Lime Instead Of 5%, Deduct	-0.47	
For 6% Lime Instead Of 5%, Add	0.47	
31 32 13 19-0011 SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY .....	18.77	
For 4% Lime Instead Of 5%, Deduct	-0.59	
For 6% Lime Instead Of 5%, Add	0.59	
For >5,000 SY, Deduct	-1.17	
31 32 13 19-0012 SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY .....	22.53	
For 4% Lime Instead Of 5%, Deduct	-0.71	
For 6% Lime Instead Of 5%, Add	0.71	
For >5,000 SY, Deduct	-1.40	
31 32 13 19-0013 SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY .....	26.25	
For 4% Lime Instead Of 5%, Deduct	-0.83	
For 6% Lime Instead Of 5%, Add	0.83	
For >5,000 SY, Deduct	-1.63	
31 32 13 19-0014 SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY .....	30.02	
For 4% Lime Instead Of 5%, Deduct	-0.95	
For 6% Lime Instead Of 5%, Add	0.95	
For >5,000 SY, Deduct	-1.86	
31 32 13 19-0015 SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY .....	33.79	
For 4% Lime Instead Of 5%, Deduct	-1.07	
For 6% Lime Instead Of 5%, Add	1.07	
For >5,000 SY, Deduct	-2.10	
<b>31 32 13 19-0016 Hydrated Lime Stabilized Subgrade</b> <small>(31 32 13 19)</small>		
Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.		
31 32 13 19-0017 CY Compacted Hydrated Lime Stabilized Subgrade .....	68.15	
31 32 13 19-0018 LB Hydrated Lime .....	1.34	
<b>31 32 13 29 Liquid Soil Stabilization</b> <small>(31 32 13)</small>		
31 32 13 29-0001 GAL Polyacrylamide And Calcium Solution .....	2.43	
<b>31 32 19 Geosynthetic Soil Stabilization And Layer Separation</b> <small>(31 32)</small>		
<b>31 32 19 13 Geogrid Soil Stabilization</b> <small>(31 32 19)</small>		
<b>31 32 19 13-0001 Geogrid Fabrics</b> <small>(31 32 19 13)</small>		
Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.		
31 32 19 13-0002 SY 5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150) .....	2.53	
For Up To 50, Add	0.60	
For >50 To 150, Add	0.44	
For >150 To 250, Add	0.28	
For >250 To 500, Add	0.14	
31 32 19 13-0003 SY 6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300) .....	2.88	
For Up To 50, Add	0.67	
For >50 To 150, Add	0.50	
For >150 To 250, Add	0.32	
For >250 To 500, Add	0.16	
31 32 19 13-0004 SY 8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500) .....	3.13	
For Up To 50, Add	0.73	
For >50 To 150, Add	0.54	
For >150 To 250, Add	0.35	
For >250 To 500, Add	0.17	
31 32 19 13-0005 SY 12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800) .....	4.46	
For Up To 50, Add	1.00	
For >50 To 150, Add	0.74	
For >150 To 250, Add	0.48	
For >250 To 500, Add	0.24	
31 32 19 13-0006 SY 14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000) .....	5.08	
For Up To 50, Add	1.12	
For >50 To 150, Add	0.83	
For >150 To 250, Add	0.54	
For >250 To 500, Add	0.27	
31 32 19 13-0007 SY 4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20) .....	2.57	
For Up To 50, Add	0.60	
For >50 To 150, Add	0.45	
For >150 To 250, Add	0.29	
For >250 To 500, Add	0.14	



<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earthwork Methods</b>	<b>31 30</b>	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0008 SY 5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30).....	3.74	
<i>For Up To 50, Add</i>	0.84	
<i>For &gt;50 To 150, Add</i>	0.63	
<i>For &gt;150 To 250, Add</i>	0.41	
<i>For &gt;250 To 500, Add</i>	0.20	
<b>31 32 19 16 Geotextile Soil Stabilization</b> <small>(31 32 19 16)</small>		
<b>31 32 19 16-0001 Nonwoven Polypropylene Geotextiles</b> <small>(31 32 19 16)</small>		
<i>Note: For drainage, filtration and separation.</i>		
31 32 19 16-0002 SY 3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	0.80	
<i>For Up To 50, Add</i>	0.20	
<i>For &gt;50 To 150, Add</i>	0.14	
<i>For &gt;150 To 250, Add</i>	0.09	
<i>For &gt;250 To 500, Add</i>	0.05	
31 32 19 16-0003 SY 3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	0.85	
<i>For Up To 50, Add</i>	0.21	
<i>For &gt;50 To 150, Add</i>	0.15	
<i>For &gt;150 To 250, Add</i>	0.10	
<i>For &gt;250 To 500, Add</i>	0.05	
31 32 19 16-0004 SY 4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	0.92	
<i>For Up To 50, Add</i>	0.22	
<i>For &gt;50 To 150, Add</i>	0.16	
<i>For &gt;150 To 250, Add</i>	0.10	
<i>For &gt;250 To 500, Add</i>	0.05	
31 32 19 16-0005 SY 4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	0.99	
<i>For Up To 50, Add</i>	0.23	
<i>For &gt;50 To 150, Add</i>	0.17	
<i>For &gt;150 To 250, Add</i>	0.11	
<i>For &gt;250 To 500, Add</i>	0.06	
31 32 19 16-0006 SY 6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	1.16	
<i>For Up To 50, Add</i>	0.27	
<i>For &gt;50 To 150, Add</i>	0.20	
<i>For &gt;150 To 250, Add</i>	0.13	
<i>For &gt;250 To 500, Add</i>	0.06	
31 32 19 16-0007 SY 7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	1.36	
<i>For Up To 50, Add</i>	0.32	
<i>For &gt;50 To 150, Add</i>	0.23	
<i>For &gt;150 To 250, Add</i>	0.15	
<i>For &gt;250 To 500, Add</i>	0.08	
31 32 19 16-0008 SY 8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	1.50	
<i>For Up To 50, Add</i>	0.35	
<i>For &gt;50 To 150, Add</i>	0.26	
<i>For &gt;150 To 250, Add</i>	0.17	
<i>For &gt;250 To 500, Add</i>	0.08	
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	1.83	
<i>For Up To 50, Add</i>	0.41	
<i>For &gt;50 To 150, Add</i>	0.30	
<i>For &gt;150 To 250, Add</i>	0.20	
<i>For &gt;250 To 500, Add</i>	0.10	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	3.97	
<i>For Up To 50, Add</i>	0.84	
<i>For &gt;50 To 150, Add</i>	0.63	
<i>For &gt;150 To 250, Add</i>	0.41	
<i>For &gt;250 To 500, Add</i>	0.21	
<b>31 32 19 16-0011 Woven Geotextiles Fabric</b> <small>(31 32 19 16)</small>		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55).....	1.13	
<i>For Up To 50, Add</i>	0.26	
<i>For &gt;50 To 150, Add</i>	0.19	
<i>For &gt;150 To 250, Add</i>	0.13	
<i>For &gt;250 To 500, Add</i>	0.06	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66).....	1.57	
<i>For Up To 50, Add</i>	0.35	
<i>For &gt;50 To 150, Add</i>	0.26	
<i>For &gt;150 To 250, Add</i>	0.17	
<i>For &gt;250 To 500, Add</i>	0.08	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	2.75	
<i>For Up To 50, Add</i>	0.60	
<i>For &gt;50 To 150, Add</i>	0.44	
<i>For &gt;150 To 250, Add</i>	0.29	
<i>For &gt;250 To 500, Add</i>	0.15	
31 32 19 16-0015 SY 11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	2.69	
<i>For Up To 50, Add</i>	0.58	
<i>For &gt;50 To 150, Add</i>	0.43	
<i>For &gt;150 To 250, Add</i>	0.28	
<i>For &gt;250 To 500, Add</i>	0.14	

<b>31</b>	<b>Earthwork</b>
<b>31 30</b>	<b>Earthwork Methods</b>
<b>31 32</b>	<b>Soil Stabilization</b>



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31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF).....	2.35
		<i>For Up To 50, Add</i>	0.52
		<i>For &gt;50 To 150, Add</i>	0.38
		<i>For &gt;150 To 250, Add</i>	0.25
		<i>For &gt;250 To 500, Add</i>	0.13
31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF).....	2.51
		<i>For Up To 50, Add</i>	0.55
		<i>For &gt;50 To 150, Add</i>	0.41
		<i>For &gt;150 To 250, Add</i>	0.27
		<i>For &gt;250 To 500, Add</i>	0.13
31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	3.19
		<i>For Up To 50, Add</i>	0.68
		<i>For &gt;50 To 150, Add</i>	0.51
		<i>For &gt;150 To 250, Add</i>	0.33
		<i>For &gt;250 To 500, Add</i>	0.17
31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF).....	4.53
		<i>For Up To 50, Add</i>	0.95
		<i>For &gt;50 To 150, Add</i>	0.71
		<i>For &gt;150 To 250, Add</i>	0.47
		<i>For &gt;250 To 500, Add</i>	0.23
<b>31 32 19 16-0020</b>		<b>Geomembranes</b> <small>(31 32 19 16)</small>	
<b>31 32 19 16-0021</b>		<b>Polyvinyl Chloride (PVC) Geomembrane</b> <small>(31 32 19 16-0020)</small>	
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	0.90
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.03
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.25
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.48
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.68
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.84
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.99
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.20
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.39
<b>31 32 19 16-0031</b>		<b>High Density Polyethylene (HDPE) Geomembrane</b> <small>(31 32 19 16-0020)</small>	
31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics).....	0.87
31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics).....	1.04
31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics).....	1.21
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics).....	1.95
31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics).....	1.52
31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics).....	1.86
31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics).....	2.20
31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics).....	3.93
31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics).....	4.07
<b>31 32 19 16-0041</b>		<b>Rock Slope Protection Fabric (Monterey County)</b> <small>(31 32 19 16)</small>	
31 32 19 16-0042	SY	Rock Slope Protection Fabric, Drainage Outlet (Monterey County).....	5.91
<b>31 32 19 26</b>		<b>Geoweb Cellular Confinement System</b> <small>(31 32 19)</small>	
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.	
<b>31 32 19 26-0001</b>		<b>Geoweb Cellular Confinement System</b> <small>(31 32 19 26)</small>	
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.	
31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems).....	4.80
		<i>For &gt;20,000, Deduct</i>	-0.09
		<i>For &gt;2:1 Slope, Add</i>	1.01
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems).....	5.58
		<i>For &gt;20,000, Deduct</i>	-0.13
		<i>For &gt;2:1 Slope, Add</i>	1.01
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems).....	6.51
		<i>For &gt;20,000, Deduct</i>	-0.17
		<i>For &gt;2:1 Slope, Add</i>	1.01
<b>31 32 36</b>		<b>Soil Nailing</b> <small>(31 32)</small>	
<b>31 32 36 11</b>		<b>Soil Nailing Stabilization</b> <small>(31 32 36)</small>	





<b>Earthwork</b>	<b>31</b>	<b>15</b>
<b>Earthwork Methods</b>	<b>31 30</b>	
<b>Soil Stabilization</b>	<b>31 32</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0001	<b>Landslide and Slip-Out Stabilization</b> <small>(31 32 36 11)</small>	
<p>Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.</p>		
31 32 36 11-0002	<b>BioWall®</b> <small>(31 32 36 11-0001)</small>	
<p>Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).</p>		
31 32 36 11-0003	SF	BioWall® Construction .....21.00
31 32 36 11-0004	<b>GeoSynthetically Confined Soil™ (GCS®) Components</b> <small>(31 32 36 11-0001)</small>	
<p>Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).</p>		
31 32 36 11-0005	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction .....10.75
Note: Installation sold per square face foot (excludes materials)		
31 32 36 11-0006	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10'' x 120'') .....96.00
31 32 36 11-0007	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8'' x 8'' x 16'') .....4.50
31 32 36 11-0008	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile .....0.75
31 32 36 11-0009	<b>Turf</b> <small>(31 32 36 11-0001)</small>	
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0010	<b>Permanent Turf Reinforcing Mat (TRM)</b> <small>(31 32 36 11-0009)</small>	
<p>Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.</p>		
31 32 36 11-0011	SF	Permanent Turf Reinforcement Mat .....1.25
Note: sold per square face foot		
31 32 36 11-0012	<b>Biodegradable Turf Reinforcing Mat (TRM)</b> <small>(31 32 36 11-0009)</small>	
<p>Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.</p>		
31 32 36 11-0013	SF	Biodegradable Turf Reinforcement Mat .....0.50
Note: sold per square face foot		

31	<b>31 Earthwork</b>
	<b>31 30 Earthwork Methods</b>
	31 32 Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0014 Shotcrete or Gunite (31 32 36 11-0001)  
 Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0015 Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0014)  
 Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement  
 AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate  
 AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate  
 AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash  
 AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal Shotcrete ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8  
 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying with

31 32 36 11-0016 SFI Wet-Mix Reinforced Shotcrete .....4.25  
 Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).



<b>Earthwork</b>	<b>31</b>	<b>CS</b>
<b>Earthwork Methods</b>	<b>31 30</b>	
<b>Soil Stabilization</b>	<b>31 32</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0017 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0014)</small> Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. U		
31 32 36 11-0018 SFI Dry-Mix Reinforced Gunite.....5.75 Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		
31 32 36 11-0019 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0014)</small>		
31 32 36 11-0020 SFI Steel Fiber Reinforcement .....1.00 Note: sold per inch thickness over one square face foot of area		
31 32 36 11-0021 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0021)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0022 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0021)</small> Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 11-0023 SF High Capacity Diamond Mesh.....10.00 Note: sold per square face foot		
31 32 36 11-0024 SF Double Twist Wire Mesh .....12.50 Note: sold per square face foot		
31 32 36 11-0025 Steel Plates <small>(31 32 36 11-0021)</small>		
31 32 36 11-0026 EA Galvanized Steel Plates (8x8).....31.50		
31 32 36 11-0027 EA Galvanized Steel Plates (10x10).....40.00		
31 32 36 11-0028 EA Galvanized Steel Plates (12x12).....54.00		
31 32 36 11-0029 Drilled Horizontal Drains <small>(31 32 36 11-0001)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		

<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 30</b>	<b>Earthwork Methods</b>
	<b>31 32</b>	<b>Soil Stabilization</b>



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
31 32 36 11-0030	LF	Drilled PVC Horizontal Drains (up to 2" Diameter)	18.75	
31 32 36 11-0031	LF	Stripdrain (6" Wide)	3.25	
31 32 36 11-0032	LF	PVC Drain Collector Pipe System	14.50	
<b>31 32 36 11-0033</b>		<b>Rockfall Stabilization</b> <small>(31 32 36 11-0001)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0034	SF	Scaling	3.75	
31 32 36 11-0035	SF	Trim Blasting	155.00	
31 32 36 11-0036	SY	Slope Drape - Double Twist Wire Mesh	41.00	
31 32 36 11-0037	SY	Slope Drape - Cable Net	130.00	
31 32 36 11-0038	SY	Slope Drape - Tecco Mesh (4mm)	130.00	
31 32 36 11-0039	LF	Temporary Rockfall Barrier	470.00	
31 32 36 11-0040	LF	Low Reach Drilling (<25 feet)	21.00	
31 32 36 11-0041	LF	High Reach Drilling (>25 feet)	40.00	
31 32 36 11-0042	LF	Limited Access Drilling	94.00	
31 32 36 11-0043	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized)	16.75	
31 32 36 11-0044	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized)	26.50	
31 32 36 11-0045	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized)	21.00	
31 32 36 11-0046	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized)	31.50	
31 32 36 11-0047	EA	Rock Anchor Testing	795.00	
<b>31 32 36 11-0048</b>		<b>Mobilization / Demobilization</b> <small>(31 32 36 11-0001)</small>		
31 32 36 11-0049	EA	Mobilization	16,675.00	
31 32 36 11-0050	EA	Limited Access, Rockfall And Compaction Grouting Mobilization, in addition to Mobilization	9,775.00	
<b>31 32 36 11-0051</b>		<b>Daily Crew Rates (DCR)</b> <small>(31 32 36 11-0001)</small>		
31 32 36 11-0052	DAY	Soils Stabilization Crew, Per Workday	10,550.00	
31 32 36 11-0053	DAY	Rockfall Stabilization Crew, Per Workday	9,350.00	
31 32 36 11-0054	DAY	Compaction Grouting Crew, Per Workday	12,600.00	
31 32 36 11-0055	EA	Additional Crew Member/Crew	2,100.00	
31 32 36 11-0056	EA	Out of State Crew Rotation	4,350.00	
<b>31 32 36 13</b>		<b>Driven Soil Nailing</b> <small>(31 32 36)</small>		
<b>31 32 36 13-0001</b>		<b>Large Diameter Micropiles</b> <small>(31 32 36 13)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing)	85.85	
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing)	118.22	
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing)	151.32	
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing)	193.69	
<b>31 32 36 16</b>		<b>Grouted Soil Nailing</b> <small>(31 32 36)</small>		
<b>31 32 36 16-0001</b>		<b>Grouting</b> <small>(31 32 36 16)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
<b>31 32 36 16-0002</b>		<b>Compaction Grouting</b> <small>(31 32 36 16-0001)</small>		
		Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.		
31 32 36 16-0003	LF	Compaction Grouting Casing Installation	21.00	
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification	16.00	
31 32 36 16-0005	CF	Compaction Grout For Void Fill	16.00	



	<b>Earthwork</b>	<b>31</b>	
	<b>Earthwork Methods</b>	<b>31 30</b>	<b>15</b>
	<b>Soil Stabilization</b>	<b>31 32</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 16-0006	<b>Polyurethane Grouting</b> <small>(31 32 36 16-0001)</small> Note: A. The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi B. Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.	
31 32 36 16-0007	LB Polyurethane Grouting For Void Fill and Re-Leveling .....	9.75

**31 32 36 19 Corrosion-Protected Soil Nailing** (31 32 36)

31 32 36 19-0001	<b>Self-Drilling SuperNails® / SuperMicropiles™</b> <small>(31 32 36 19)</small> Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering BTX or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).	
31 32 36 19-0002	<b>Self-Drilling SuperNails®</b> <small>(31 32 36 19-0001)</small> 31 32 36 19-0003 EA Self Drilling SuperNails® up to 20-ft.....600.00 31 32 36 19-0004 EA Self Drilling SuperNails® up to 30-ft.....825.00 31 32 36 19-0005 EA Self Drilling SuperNails® up to 40-ft.....1,160.00 31 32 36 19-0006 EA Self Drilling SuperNails® up to 50-ft.....1,410.00 31 32 36 19-0007 EA Self Drilling SuperNails® up to 60-ft.....1,685.00 31 32 36 19-0008 EA Self Drilling SuperNails® up to 70-ft.....1,945.00 31 32 36 19-0009 EA Self Drilling SuperNails® up to 80-ft.....2,220.00 31 32 36 19-0010 EA Additional Cost for 10' High Capacity X-51 Bar.....95.00	
31 32 36 19-0011	<b>SuperNail® Testing</b> <small>(31 32 36 19)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR). 31 32 36 19-0012 EA SuperNail® Proof Testing .....695.00 31 32 36 19-0013 EA SuperNail® Verification Testing .....1,385.00	

**31 32 36 26 Launched Soil Nailing** (31 32 36)

31 32 36 26-0001	<b>Launched Soil Nails™</b> <small>(31 32 36 26)</small> Note: Furnish Launched Soil Nails™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Alternately, the tube may be composed of fiberglass (1.5 inch outside diameter, 0.5 inch wall thickness Strongwell EXTREN Series 625 Vinyl Ester fiberglass. Furnish equipment and incidentals necessary to complete the work. Insert Launched Soil Nails™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).	
31 32 36 26-0002	EA GalvaDized™ SuperDrain™ .....550.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length.	
31 32 36 26-0003	EA Fiberglass SuperNail® .....565.00 Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0004	EA GalvaDized™ SuperNail® .....435.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0005	EA Temporary Launched Soil Nail .....345.00 Note: bare steel tube up to 20 ft. length.	
31 32 36 26-0006	EA Fiberglass SuperDrain™ .....450.00 Note: perforated fiberglass tube up to 20 ft. length.	
31 32 36 26-0007	EA GalvaDized™ SuperDrain™ .....345.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length.	



<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 30</b>	<b>Earthwork Methods</b>
	<b>31 32</b>	<b>Soil Stabilization</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**31 32 36 29 Drilled Soil Nailing** (31 32 36)

<b>31 32 36 29-0001</b>	<b>EA</b>	<b>Drilled SuperNails® (Permanently Cased Soil Nails)</b> <small>(31 32 36 29)</small> Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).	
31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® up to 20 ft. length.....	500.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® up to 30 ft. length.....	690.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® up to 40 ft. length.....	785.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® up to 50 ft. length.....	875.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® up to 60 ft. length.....	1,035.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® up to 70 ft. length.....	1,190.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® up to 80 ft. length.....	1,345.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	

**31 35 Slope Protection** (31 30)

**31 35 19 Geosynthetic Slope Protection** (31 35)

**31 35 19 19 Slope Protection with Mulch Control Netting** (31 35 19)

<b>31 35 19 19-0001</b>	<b>SY</b>	<b>Erosion Control Fabric</b> <small>(31 35 19 19)</small>	
31 35 19 19-0002	SY	26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900).....	3.32

**31 36 Gabions** (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

**31 36 13 Gabion Boxes** (31 36)

<b>31 36 13 00-0001</b>	<b>SY</b>	<b>Stone Filled Gabion Slope Protection</b> <small>(31 36 13)</small> Note: Machine placed by SY of total top face area for depth indicated.	
31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection.....	57.36
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection.....	67.66
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection.....	81.50
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection.....	96.31
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection.....	113.11
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection.....	154.78
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection.....	195.59

**31 37 Riprap** (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

**31 37 13 Machined Riprap** (31 37)

<b>31 37 13 00-0001</b>	<b>CY</b>	<b>Random - Filter Stone</b> <small>(31 37 13)</small>	
31 37 13 00-0002	CY	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	52.50
		<i>For Chinking Material, Add</i> .....	13.09
31 37 13 00-0003	CY	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	61.02
		<i>For Chinking Material, Add</i> .....	13.09
31 37 13 00-0004	CY	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	65.04
		<i>For Chinking Material, Add</i> .....	13.09
31 37 13 00-0005	CY	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	69.61
		<i>For Chinking Material, Add</i> .....	13.09
31 37 13 00-0006	CY	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	73.29
		<i>For Chinking Material, Add</i> .....	13.09
31 37 13 00-0007	CY	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	79.32
31 37 13 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap .....	94.94
31 37 13 00-0009	TON	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	34.75
31 37 13 00-0010	TON	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	40.16
31 37 13 00-0011	TON	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	42.71
31 37 13 00-0012	TON	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	45.61
31 37 13 00-0013	TON	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	47.95



	<b>Earthwork</b>	<b>31</b>	
	Earthwork Methods	31 30	15
	Riprap	31 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 37 13 00-0014	TON	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap	51.82	
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	64.20	

### 31 40 Shoring And Underpinning <sup>(31)</sup>

#### 31 41 Shoring <sup>(31 40)</sup>

##### 31 41 13 Timber Shoring <sup>(31 41)</sup>

###### 31 41 13 00-0001 Wood Sheet Piling <sup>(31 41 13)</sup>

###### 31 41 13 00-0002 Pull And Salvage <sup>(31 41 13 00-0001)</sup>

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	11.56	
		<i>For Wood Sheeting Left In Place</i>	-0.90	
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	12.51	
		<i>For Wood Sheeting Left In Place</i>	-1.08	
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	13.53	
		<i>For Wood Sheeting Left In Place</i>	-1.27	
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	14.65	
		<i>For Wood Sheeting Left In Place</i>	-1.49	
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	15.87	
		<i>For Wood Sheeting Left In Place</i>	-1.72	
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	17.17	
		<i>For Wood Sheeting Left In Place</i>	-1.99	
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage	18.61	
		<i>For Wood Sheeting Left In Place</i>	-2.28	

##### 31 41 16 Sheet Piling <sup>(31 41)</sup>

###### 31 41 16 13 Steel Sheet Piling <sup>(31 41 16)</sup>

###### 31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage <sup>(31 41 16 13)</sup>

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON	Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage	1,885.67	
		<i>For Standard Sheeting Left In Place, Add</i>	994.14	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,419.33	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	
31 41 16 13-0003	TON	Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage	1,955.44	
		<i>For Standard Sheeting Left In Place, Add</i>	959.25	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,384.44	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	
31 41 16 13-0004	TON	Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,279.84	
		<i>For Standard Sheeting Left In Place, Add</i>	797.05	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,222.24	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	
31 41 16 13-0005	TON	Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,591.99	
		<i>For Standard Sheeting Left In Place, Add</i>	640.98	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,066.17	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	
31 41 16 13-0006	TON	Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,775.61	
		<i>For Standard Sheeting Left In Place, Add</i>	549.17	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	974.36	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	
31 41 16 13-0007	TON	Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,962.91	
		<i>For Standard Sheeting Left In Place, Add</i>	455.52	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	880.71	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	106.30	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	118.11	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	366.13	
		<i>For Each Additional Month &gt;3 Months, Add</i>	59.05	

### 31 45 Vibroflotation And Densification <sup>(31 40)</sup>

<b>31</b>	<b>31 Earthwork</b>
	<b>31 40 Shoring And Underpinning</b>
	<b>31 45 Vibroflotation And Densification</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 45 13 Vibroflotation</b> <small>(31 45)</small>	
31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....	11.53

**31 60 Special Foundations And Load-bearing Elements** (31)

**31 62 Driven Piles** (31 62)

**31 62 13 Concrete Piles** (31 62)

**31 62 13 23 Prestressed Concrete Piles** (31 62 13)

**31 62 13 23-0001 Square Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile .....	26.28
For Piles Driven In Water, Add .....	13.00
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile .....	32.90
For Piles Driven In Water, Add .....	14.63
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile .....	39.80
For Piles Driven In Water, Add .....	16.08
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile .....	48.67
For Piles Driven In Water, Add .....	17.83
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile .....	59.01
For Piles Driven In Water, Add .....	19.86
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile .....	68.22
For Piles Driven In Water, Add .....	21.95
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile .....	86.87
For Piles Driven In Water, Add .....	25.18

**31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile.....	43.49
For Piles Driven In Water, Add .....	15.02
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile.....	54.78
For Piles Driven In Water, Add .....	16.82
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile.....	66.16
For Piles Driven In Water, Add .....	18.71
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile.....	80.31
For Piles Driven In Water, Add .....	20.99
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile.....	85.36
For Piles Driven In Water, Add .....	22.50
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile.....	90.62
For Piles Driven In Water, Add .....	24.19

**31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	32.55
For Piles Driven In Water, Add .....	13.34
31 62 13 23-0018 VLF 14" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	38.09
For Piles Driven In Water, Add .....	14.48
31 62 13 23-0019 VLF 16" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	44.63
For Piles Driven In Water, Add .....	15.80
31 62 13 23-0020 VLF 18" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	50.21
For Piles Driven In Water, Add .....	17.12
31 62 13 23-0021 VLF 20" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	62.25
For Piles Driven In Water, Add .....	19.19
31 62 13 23-0022 VLF 24" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	76.14
For Piles Driven In Water, Add .....	21.57

**31 62 16 Steel Piles** (31 62)

**31 62 16 16 Steel H Piles** (31 62 16)

**31 62 16 16-0001 Rolled, Driven Steel H Piles** (31 62 16 16)

31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile .....	46.82
For Piles Driven In Water, Add .....	16.02
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile .....	53.15
For Piles Driven In Water, Add .....	17.22
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile .....	67.41
For Piles Driven In Water, Add .....	18.65
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile .....	64.00
For Piles Driven In Water, Add .....	18.66
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile .....	73.51
For Piles Driven In Water, Add .....	19.61
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile .....	85.10
For Piles Driven In Water, Add .....	21.79
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile .....	94.61
For Piles Driven In Water, Add .....	22.75
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile .....	84.51
For Piles Driven In Water, Add .....	22.06
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile .....	100.67
For Piles Driven In Water, Add .....	23.68



<b>Earthwork</b>	<b>31</b>	<b>CS</b>
<b>Special Foundations And Load-bearing Elements</b>	<b>31 60</b>	
<b>Driven Piles</b>	<b>31 62</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile .....	113.34	
For Piles Driven In Water, Add	26.08	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile .....	128.55	
For Piles Driven In Water, Add	27.60	
<b>31 62 16 16-0013 Splices, Caps, And Points For H-Piles (31 62 16 16)</b>		
<b>31 62 16 16-0014 Rolled Steel H Pile Splices (31 62 16 16-0013)</b>		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice .....	333.96	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice .....	401.48	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice .....	528.48	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice .....	562.24	
<b>31 62 16 16-0019 Rolled Steel H Driving Caps (31 62 16 16-0013)</b>		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap .....	5,500.79	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap .....	5,500.79	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap .....	5,549.73	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap .....	8,419.18	
<b>31 62 16 16-0024 Rolled Steel H Standard Pile Points (31 62 16 16-0013)</b>		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point .....	367.72	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point .....	401.48	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point .....	528.48	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point .....	629.75	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point .....	528.48	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point .....	695.14	
<b>31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)</b>		
<b>31 62 16 19-0001 Unfilled Tubular Driven Steel Piles (31 62 16 19)</b>		
31 62 16 19-0002 VLF 8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile .....	37.52	
For Piles Driven In Water, Add	18.27	
31 62 16 19-0003 VLF 8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile .....	42.86	
For Piles Driven In Water, Add	18.80	
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile .....	48.64	
For Piles Driven In Water, Add	19.38	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile .....	42.86	
For Piles Driven In Water, Add	18.80	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile .....	47.94	
For Piles Driven In Water, Add	19.31	
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile .....	59.17	
For Piles Driven In Water, Add	20.43	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile .....	50.02	
For Piles Driven In Water, Add	20.29	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile .....	55.97	
For Piles Driven In Water, Add	20.89	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile .....	59.27	
For Piles Driven In Water, Add	21.22	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile .....	68.52	
For Piles Driven In Water, Add	22.14	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile .....	54.17	
For Piles Driven In Water, Add	22.30	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile .....	60.90	
For Piles Driven In Water, Add	22.97	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile .....	67.62	
For Piles Driven In Water, Add	23.65	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile .....	74.35	
For Piles Driven In Water, Add	24.32	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile .....	60.28	
For Piles Driven In Water, Add	24.88	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile .....	68.15	
For Piles Driven In Water, Add	25.67	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile .....	83.48	
For Piles Driven In Water, Add	27.20	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile .....	73.81	
For Piles Driven In Water, Add	27.83	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile .....	84.03	
For Piles Driven In Water, Add	28.85	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile .....	103.45	
For Piles Driven In Water, Add	30.79	
<b>31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)</b>		
<b>31 62 16 19-0023 Steel Pipe Pile Splices (31 62 16 19-0022)</b>		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice .....	233.04	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice .....	249.59	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice .....	325.36	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice .....	341.69	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 62 Driven Piles**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice .....	411.72	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice .....	495.85	
<b>31 62 16 19-0030</b>		<b>Steel Pipe Standard Pile Points</b> <small>(31 62 16 19-0022)</small>		
31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point .....	232.81	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point .....	246.06	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point .....	278.46	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point .....	314.91	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point .....	348.05	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point .....	401.72	
<b>31 62 16 19-0037</b>		<b>Steel Pipe Heavy Duty Pile Points</b> <small>(31 62 16 19-0022)</small>		
31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy Duty Pile Point .....	341.25	
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy Duty Pile Point .....	357.82	
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy Duty Pile Point .....	401.00	
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy Duty Pile Point .....	467.27	
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy Duty Pile Point .....	526.68	
<b>31 62 19</b>		<b>Timber Piles</b> <small>(31 62)</small>		
<b>31 62 19 00-0001</b>		<b>Friction Or End Bearing, Driven Treated Wood Piles</b> <small>(31 62 19)</small>		
		Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	33.14	
		For Piles Driven In Water, Add	13.39	
		For Untreated Pile, Deduct	-8.12	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	34.78	
		For Piles Driven In Water, Add	14.82	
		For Untreated Pile, Deduct	-8.21	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	36.63	
		For Piles Driven In Water, Add	15.76	
		For Untreated Pile, Deduct	-8.58	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	39.35	
		For Piles Driven In Water, Add	17.54	
		For Untreated Pile, Deduct	-8.97	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	49.23	
		For Piles Driven In Water, Add	20.05	
		For Untreated Pile, Deduct	-12.00	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	61.63	
		For Piles Driven In Water, Add	24.32	
		For Untreated Pile, Deduct	-15.34	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
<b>31 62 23</b>		<b>Composite Piles</b> <small>(31 62)</small>		
<b>31 62 23 13</b>		<b>Concrete-Filled Steel Piles</b> <small>(31 62 23)</small>		
<b>31 62 23 13-0001</b>		<b>Concrete-Filled Driven Steel Pipe Piles</b> <small>(31 62 23 13)</small>		
		Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	40.93	
		For 5,000 PSI Concrete Grout Fill, Add	5.04	
		For Piles Driven In Water, Add	19.88	
31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	46.28	
		For 5,000 PSI Concrete Grout Fill, Add	5.57	
		For Piles Driven In Water, Add	20.41	
31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	52.05	
		For 5,000 PSI Concrete Grout Fill, Add	6.15	
		For Piles Driven In Water, Add	20.99	
31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	47.84	
		For 5,000 PSI Concrete Grout Fill, Add	7.20	
		For Piles Driven In Water, Add	20.91	
31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	52.92	
		For 5,000 PSI Concrete Grout Fill, Add	7.71	
		For Piles Driven In Water, Add	21.42	





<b>Earthwork</b>	<b>31</b>	
<b>Special Foundations And Load-bearing Elements</b>	<b>31 60</b>	<b>15</b>
<b>Driven Piles</b>	<b>31 62</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0007 VLF 10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	64.15 8.83 22.54	
31 62 23 13-0008 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	57.03 9.83 23.20	
31 62 23 13-0009 VLF 12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	62.97 10.42 23.79	
31 62 23 13-0010 VLF 12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	66.28 10.75 24.12	
31 62 23 13-0011 VLF 12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	75.52 11.68 25.05	
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	63.56 12.32 26.80	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	70.29 13.00 27.48	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	77.01 13.67 28.15	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	83.74 14.34 28.82	
31 62 23 13-0016 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	70.59 15.43 28.73	
31 62 23 13-0017 VLF 16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	78.45 16.22 29.52	
31 62 23 13-0018 VLF 16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	93.79 17.75 31.05	
31 62 23 13-0019 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	86.28 19.69 32.05	
31 62 23 13-0020 VLF 18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	96.50 20.71 33.07	
31 62 23 13-0021 VLF 18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile ..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	115.91 22.65 35.01	
<b>31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles</b> <small>(31 62 23 13)</small> Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	50.26 17.12	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	60.64 19.02	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	68.50 20.81	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	74.51 22.58	
<b>31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles</b> <small>(31 62 23 13)</small> Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	49.35 17.03	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	50.77 18.04	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	61.58 20.12	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	70.85 22.21	
<b>31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles</b> <small>(31 62 23 13)</small>		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	30.27 13.24 0.05	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	33.42 14.68 0.05	
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	36.56 16.14 0.06	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	39.71 17.58 0.06	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	42.89	
For Piles Driven In Water, Add	19.04	
For Thick Wall Shell, Add	0.07	
<b>31 63 Bored Piles (31 60)</b>		
<b>31 63 36 Drilled Steel Piles (31 63)</b>		
31 63 36 00-0001 Drill Hole (31 63 36)		
Note: Excludes removal of excess material.		
31 63 36 00-0002 Drilling Mobilization (31 63 36 00-0001)		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization.....	730.01	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	973.34	
<b>31 63 36 00-0005 Drill Hole In Soil (31 63 36 00-0001)</b>		
31 63 36 00-0006 LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	42.11	
31 63 36 00-0007 LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	48.97	
31 63 36 00-0008 LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	57.53	
31 63 36 00-0009 LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	67.82	
31 63 36 00-0010 LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	73.30	
31 63 36 00-0011 LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	80.65	
31 63 36 00-0012 LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole.....	88.33	
<b>31 63 36 00-0013 Steel H Piles (31 63 36)</b>		
<b>31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)</b>		
Note: Includes guides, bracing and alignment.		
31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	44.72	
For >2,400 To 3,600, Deduct	-1.38	
For >3,600 To 4,800, Deduct	-2.76	
For >4,800 To 6,000, Deduct	-5.00	
For >6,000, Deduct	-7.23	
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	50.94	
For >2,400 To 3,600, Deduct	-1.55	
For >3,600 To 4,800, Deduct	-3.10	
For >4,800 To 6,000, Deduct	-5.65	
For >6,000, Deduct	-8.19	
31 63 36 00-0017 VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	65.20	
For >2,400 To 3,600, Deduct	-1.91	
For >3,600 To 4,800, Deduct	-3.81	
For >4,800 To 6,000, Deduct	-7.07	
For >6,000, Deduct	-10.33	
31 63 36 00-0018 VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	61.73	
For >2,400 To 3,600, Deduct	-1.83	
For >3,600 To 4,800, Deduct	-3.65	
For >4,800 To 6,000, Deduct	-6.74	
For >6,000, Deduct	-9.83	
31 63 36 00-0019 VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	71.24	
For >2,400 To 3,600, Deduct	-2.06	
For >3,600 To 4,800, Deduct	-4.13	
For >4,800 To 6,000, Deduct	-7.69	
For >6,000, Deduct	-11.25	
31 63 36 00-0020 VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	82.64	
For >2,400 To 3,600, Deduct	-2.37	
For >3,600 To 4,800, Deduct	-4.75	
For >4,800 To 6,000, Deduct	-8.88	
For >6,000, Deduct	-13.01	
31 63 36 00-0021 VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	92.15	
For >2,400 To 3,600, Deduct	-2.61	
For >3,600 To 4,800, Deduct	-5.22	
For >4,800 To 6,000, Deduct	-9.83	
For >6,000, Deduct	-14.44	
31 63 36 00-0022 VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	81.98	
For >2,400 To 3,600, Deduct	-2.36	
For >3,600 To 4,800, Deduct	-4.73	
For >4,800 To 6,000, Deduct	-8.83	
For >6,000, Deduct	-12.93	
31 63 36 00-0023 VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	98.14	
For >2,400 To 3,600, Deduct	-2.77	
For >3,600 To 4,800, Deduct	-5.54	
For >4,800 To 6,000, Deduct	-10.44	
For >6,000, Deduct	-15.35	
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	110.61	
For >2,400 To 3,600, Deduct	-3.11	
For >3,600 To 4,800, Deduct	-6.21	
For >4,800 To 6,000, Deduct	-11.74	
For >6,000, Deduct	-17.27	



<b>Earthwork</b>	<b>31</b>	
<b>Special Foundations And Load-bearing Elements</b>	<b>31 60</b>	<b>15</b>
<b>Bored Piles</b>	<b>31 63</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	125.82	
For >2,400 To 3,600, Deduct	-3.49	
For >3,600 To 4,800, Deduct	-6.97	
For >4,800 To 6,000, Deduct	-13.26	
For >6,000, Deduct	-19.56	
<b>31 63 36 00-0026 Welded Steel Stud Pins</b> <small>(31 63 36 00-0013)</small>		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	11.40	
For >50 To 150, Deduct	-0.51	
For >150 To 250, Deduct	-1.04	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-2.12	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins .....	12.72	
For >50 To 150, Deduct	-0.51	
For >150 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-2.22	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins .....	13.98	
For >50 To 150, Deduct	-0.51	
For >150 To 250, Deduct	-1.11	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.31	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	12.70	
For >50 To 150, Deduct	-0.53	
For >150 To 250, Deduct	-1.11	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.28	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins .....	14.69	
For >50 To 150, Deduct	-0.53	
For >150 To 250, Deduct	-1.16	
For >250 To 500, Deduct	-1.80	
For >500, Deduct	-2.43	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins .....	16.08	
For >50 To 150, Deduct	-0.53	
For >150 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.53	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	14.31	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-1.82	
For >500, Deduct	-2.46	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins .....	17.55	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.98	
For >500, Deduct	-2.70	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins .....	19.13	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.82	
<b>31 63 36 00-0036 Concrete Fill</b> <small>(31 63 36)</small>		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	39.77	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	44.20	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	48.62	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	53.04	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	57.45	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	61.87	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile .....	72.10	
<b>31 64 Caissons</b> <small>(31 60)</small>		
<b>31 64 13 Box Caissons</b> <small>(31 64)</small>		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground <small>(31 64 13 00-0001)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	51.73	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	5.37	
For >100' To 150' Deep, Add	12.93	
For >150' To 200' Deep, Add	17.70	
For Right Angle Drilling, Add	12.65	
For >3 To 9, Deduct	-1.64	
For >9, Deduct	-3.38	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	67.22	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	7.60	
For >100' To 150' Deep, Add	16.81	
For >150' To 200' Deep, Add	23.78	
For Right Angle Drilling, Add	14.49	
For >3 To 9, Deduct	-2.71	
For >9, Deduct	-5.60	
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	97.16	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	11.43	
For >100' To 150' Deep, Add	24.29	
For >150' To 200' Deep, Add	34.93	
For Right Angle Drilling, Add	19.54	
For >3 To 9, Deduct	-4.34	
For >9, Deduct	-8.97	
31 64 13 00-0006 VLF 36" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	130.38	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	15.78	
For >100' To 150' Deep, Add	32.60	
For >150' To 200' Deep, Add	47.43	
For Right Angle Drilling, Add	24.84	
For >3 To 9, Deduct	-6.24	
For >9, Deduct	-12.89	
31 64 13 00-0007 VLF 42" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	170.48	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	21.30	
For >100' To 150' Deep, Add	42.62	
For >150' To 200' Deep, Add	62.85	
For Right Angle Drilling, Add	30.40	
For >3 To 9, Deduct	-8.78	
For >9, Deduct	-18.15	
31 64 13 00-0008 VLF 48" Diameter Caisson No Casing Stable Ground, No Ground Water.....	205.56	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	26.05	
For >100' To 150' Deep, Add	51.39	
For >150' To 200' Deep, Add	76.24	
For Right Angle Drilling, Add	35.51	
For >3 To 9, Deduct	-10.93	
For >9, Deduct	-22.59	
31 64 13 00-0009 VLF 54" Diameter Caisson No Casing Stable Ground, No Ground Water.....	252.44	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	32.82	
For >100' To 150' Deep, Add	63.11	
For >150' To 200' Deep, Add	94.66	
For Right Angle Drilling, Add	41.03	
For >3 To 9, Deduct	-14.20	
For >9, Deduct	-29.34	
31 64 13 00-0010 VLF 60" Diameter Caisson No Casing Stable Ground, No Ground Water.....	299.32	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	39.58	
For >100' To 150' Deep, Add	74.83	
For >150' To 200' Deep, Add	113.08	
For Right Angle Drilling, Add	46.55	
For >3 To 9, Deduct	-17.46	
For >9, Deduct	-36.09	
31 64 13 00-0011 VLF 66" Diameter Caisson No Casing Stable Ground, No Ground Water.....	352.37	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	47.21	
For >100' To 150' Deep, Add	88.09	
For >150' To 200' Deep, Add	133.89	
For Right Angle Drilling, Add	52.89	
For >3 To 9, Deduct	-21.13	
For >9, Deduct	-43.67	
31 64 13 00-0012 VLF 72" Diameter Caisson No Casing Stable Ground, No Ground Water.....	414.25	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	56.16	
For >100' To 150' Deep, Add	103.56	
For >150' To 200' Deep, Add	158.22	
For Right Angle Drilling, Add	60.12	
For >3 To 9, Deduct	-25.46	
For >9, Deduct	-52.62	
31 64 13 00-0013 VLF 78" Diameter Caisson No Casing Stable Ground, No Ground Water.....	475.87	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	65.19	
For >100' To 150' Deep, Add	118.97	
For >150' To 200' Deep, Add	182.60	
For Right Angle Drilling, Add	66.95	
For >3 To 9, Deduct	-29.88	
For >9, Deduct	-61.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0014 VLF 84" Diameter Caisson No Casing Stable Ground, No Ground Water.....	541.84	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	74.90	
For >100' To 150' Deep, Add	135.46	
For >150' To 200' Deep, Add	208.76	
For Right Angle Drilling, Add	74.12	
For >3 To 9, Deduct	-34.66	
For >9, Deduct	-71.62	
<b>31 64 13 00-0015 For Bell Excavation And Concrete, Add</b> <small>(31 64 13 00-0001)</small>		
31 64 13 00-0016 EA Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY .....	357.36	
For >50' To 100' Deep, Add	29.68	
For >100' To 150' Deep, Add	89.34	
For >150' To 200' Deep, Add	113.04	
For >3 To 9, Deduct	-4.37	
For >9, Deduct	-9.03	
31 64 13 00-0017 EA Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY .....	1,256.65	
For >50' To 100' Deep, Add	104.54	
For >100' To 150' Deep, Add	314.16	
For >150' To 200' Deep, Add	397.72	
For >3 To 9, Deduct	-15.54	
For >9, Deduct	-32.12	
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY .....	1,906.00	
For >50' To 100' Deep, Add	161.31	
For >100' To 150' Deep, Add	476.50	
For >150' To 200' Deep, Add	606.66	
For >3 To 9, Deduct	-26.15	
For >9, Deduct	-54.04	
31 64 13 00-0019 EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY .....	2,646.62	
For >50' To 100' Deep, Add	224.46	
For >100' To 150' Deep, Add	661.66	
For >150' To 200' Deep, Add	842.99	
For >3 To 9, Deduct	-36.75	
For >9, Deduct	-75.95	
31 64 13 00-0020 EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY .....	3,580.14	
For >50' To 100' Deep, Add	297.75	
For >100' To 150' Deep, Add	895.04	
For >150' To 200' Deep, Add	1,132.97	
For >3 To 9, Deduct	-44.20	
For >9, Deduct	-91.34	
31 64 13 00-0021 EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY .....	4,209.41	
For >50' To 100' Deep, Add	349.92	
For >100' To 150' Deep, Add	1,052.35	
For >150' To 200' Deep, Add	1,331.90	
For >3 To 9, Deduct	-51.81	
For >9, Deduct	-107.07	
31 64 13 00-0022 EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY .....	7,136.56	
For >50' To 100' Deep, Add	591.95	
For >100' To 150' Deep, Add	1,784.14	
For >150' To 200' Deep, Add	2,256.45	
For >3 To 9, Deduct	-86.61	
For >9, Deduct	-179.00	
31 64 13 00-0023 EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY .....	10,336.94	
For >50' To 100' Deep, Add	866.92	
For >100' To 150' Deep, Add	2,584.24	
For >150' To 200' Deep, Add	3,280.25	
For >3 To 9, Deduct	-134.37	
For >9, Deduct	-277.71	
<b>31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled</b> <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
<b>31 64 13 00-0025 Caisson In Wet Ground</b> <small>(31 64 13 00-0024)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026 VLF 18" Diameter Caisson Wet Ground, Casing Pulled.....	56.34	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	5.68	
For >100' To 150' Deep, Add	14.09	
For >150' To 200' Deep, Add	19.08	
For Right Angle Drilling, Add	14.29	
For >3 To 9, Deduct	-1.63	
For >9, Deduct	-3.37	
31 64 13 00-0027 VLF 24" Diameter Caisson Wet Ground, Casing Pulled.....	93.81	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	9.46	
For >100' To 150' Deep, Add	23.45	
For >150' To 200' Deep, Add	31.76	
For Right Angle Drilling, Add	23.80	
For >3 To 9, Deduct	-2.71	
For >9, Deduct	-5.60	



**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled .....	127.08	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	13.52	
		For >100' To 150' Deep, Add	31.77	
		For >150' To 200' Deep, Add	43.91	
		For Right Angle Drilling, Add	30.01	
		For >3 To 9, Deduct	-4.34	
		For >9, Deduct	-8.97	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled .....	175.45	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	18.93	
		For >100' To 150' Deep, Add	43.86	
		For >150' To 200' Deep, Add	60.95	
		For Right Angle Drilling, Add	40.62	
		For >3 To 9, Deduct	-6.24	
		For >9, Deduct	-12.89	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled .....	226.14	
		Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	25.20	
		For >100' To 150' Deep, Add	56.54	
		For >150' To 200' Deep, Add	79.55	
		For Right Angle Drilling, Add	49.88	
		For >3 To 9, Deduct	-8.78	
		For >9, Deduct	-18.15	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled .....	271.60	
		Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	30.67	
		For >100' To 150' Deep, Add	67.90	
		For >150' To 200' Deep, Add	96.06	
		For Right Angle Drilling, Add	58.62	
		For >3 To 9, Deduct	-10.93	
		For >9, Deduct	-22.59	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled .....	351.54	
		Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	39.75	
		For >100' To 150' Deep, Add	87.89	
		For >150' To 200' Deep, Add	124.39	
		For Right Angle Drilling, Add	75.71	
		For >3 To 9, Deduct	-14.20	
		For >9, Deduct	-29.34	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled .....	430.63	
		Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	48.77	
		For >100' To 150' Deep, Add	107.66	
		For >150' To 200' Deep, Add	152.48	
		For Right Angle Drilling, Add	92.51	
		For >3 To 9, Deduct	-17.46	
		For >9, Deduct	-36.09	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled .....	496.02	
		Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	57.26	
		For >100' To 150' Deep, Add	124.01	
		For >150' To 200' Deep, Add	176.98	
		For Right Angle Drilling, Add	103.17	
		For >3 To 9, Deduct	-21.13	
		For >9, Deduct	-43.67	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled .....	570.21	
		Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	67.07	
		For >100' To 150' Deep, Add	142.55	
		For >150' To 200' Deep, Add	205.01	
		For Right Angle Drilling, Add	114.70	
		For >3 To 9, Deduct	-25.46	
		For >9, Deduct	-52.62	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled .....	652.24	
		Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	77.53	
		For >100' To 150' Deep, Add	163.06	
		For >150' To 200' Deep, Add	235.52	
		For Right Angle Drilling, Add	128.68	
		For >3 To 9, Deduct	-29.88	
		For >9, Deduct	-61.76	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled .....	738.96	
		Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	88.69	
		For >100' To 150' Deep, Add	184.74	
		For >150' To 200' Deep, Add	267.90	
		For Right Angle Drilling, Add	143.11	
		For >3 To 9, Deduct	-34.66	
		For >9, Deduct	-71.62	

31 64 13 00-0038 For Bell Excavation And Concrete, Add (31 64 13 00-0024)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0039 EA Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY .....	407.87	
<i>For &gt;50' To 100' Deep, Add</i>	33.21	
<i>For &gt;100' To 150' Deep, Add</i>	101.97	
<i>For &gt;150' To 200' Deep, Add</i>	128.19	
<i>For &gt;3 To 9, Deduct</i>	-4.37	
<i>For &gt;9, Deduct</i>	-9.03	
31 64 13 00-0040 EA Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY .....	1,421.58	
<i>For &gt;50' To 100' Deep, Add</i>	116.09	
<i>For &gt;100' To 150' Deep, Add</i>	355.40	
<i>For &gt;150' To 200' Deep, Add</i>	447.20	
<i>For &gt;3 To 9, Deduct</i>	-15.54	
<i>For &gt;9, Deduct</i>	-32.12	
31 64 13 00-0041 EA Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY .....	1,930.45	
<i>For &gt;50' To 100' Deep, Add</i>	145.75	
<i>For &gt;100' To 150' Deep, Add</i>	482.61	
<i>For &gt;150' To 200' Deep, Add</i>	592.41	
<i>For &gt;3 To 9, Deduct</i>	-9.96	
<i>For &gt;9, Deduct</i>	-20.58	
31 64 13 00-0042 EA Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY .....	3,128.47	
<i>For &gt;50' To 100' Deep, Add</i>	258.19	
<i>For &gt;100' To 150' Deep, Add</i>	782.12	
<i>For &gt;150' To 200' Deep, Add</i>	987.54	
<i>For &gt;3 To 9, Deduct</i>	-36.75	
<i>For &gt;9, Deduct</i>	-75.95	
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY .....	4,050.22	
<i>For &gt;50' To 100' Deep, Add</i>	330.66	
<i>For &gt;100' To 150' Deep, Add</i>	1,012.56	
<i>For &gt;150' To 200' Deep, Add</i>	1,274.00	
<i>For &gt;3 To 9, Deduct</i>	-44.20	
<i>For &gt;9, Deduct</i>	-91.34	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY .....	4,762.43	
<i>For &gt;50' To 100' Deep, Add</i>	388.63	
<i>For &gt;100' To 150' Deep, Add</i>	1,190.61	
<i>For &gt;150' To 200' Deep, Add</i>	1,497.81	
<i>For &gt;3 To 9, Deduct</i>	-51.81	
<i>For &gt;9, Deduct</i>	-107.07	
31 64 13 00-0045 EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY .....	8,076.69	
<i>For &gt;50' To 100' Deep, Add</i>	657.76	
<i>For &gt;100' To 150' Deep, Add</i>	2,019.17	
<i>For &gt;150' To 200' Deep, Add</i>	2,538.49	
<i>For &gt;3 To 9, Deduct</i>	-86.61	
<i>For &gt;9, Deduct</i>	-179.00	
31 64 13 00-0046 EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY .....	11,679.99	
<i>For &gt;50' To 100' Deep, Add</i>	960.93	
<i>For &gt;100' To 150' Deep, Add</i>	2,920.00	
<i>For &gt;150' To 200' Deep, Add</i>	3,683.16	
<i>For &gt;3 To 9, Deduct</i>	-134.37	
<i>For &gt;9, Deduct</i>	-277.71	
<b>31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale <small>(31 64 13)</small></b>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
<b>31 64 13 00-0048 Caisson In Soft Rock <small>(31 64 13 00-0047)</small></b>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049 VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....	200.33	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	64.68	
<i>For &gt;3 To 9, Deduct</i>	-1.63	
<i>For &gt;9, Deduct</i>	-3.37	
31 64 13 00-0050 VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....	333.83	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	107.81	
<i>For &gt;3 To 9, Deduct</i>	-2.71	
<i>For &gt;9, Deduct</i>	-5.60	
31 64 13 00-0051 VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....	504.35	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	162.06	
<i>For &gt;3 To 9, Deduct</i>	-4.34	
<i>For &gt;9, Deduct</i>	-8.97	
31 64 13 00-0052 VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....	647.15	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	205.71	
<i>For &gt;3 To 9, Deduct</i>	-6.24	
<i>For &gt;9, Deduct</i>	-12.89	
31 64 13 00-0053 VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....	830.89	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	67.53	
<i>For &gt;100' To 150' Deep, Add</i>	207.72	
<i>For &gt;150' To 200' Deep, Add</i>	260.97	
<i>For Right Angle Drilling, Add</i>	261.54	
<i>For &gt;3 To 9, Deduct</i>	-8.78	
<i>For &gt;9, Deduct</i>	-18.15	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,002.33 Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF. <i>For Right Angle Drilling, Add</i> 314.38 <i>For &gt;3 To 9, Deduct</i> -10.93 <i>For &gt;9, Deduct</i> -22.59		
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,229.75 Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> 101.23 <i>For &gt;100' To 150' Deep, Add</i> 307.44 <i>For &gt;150' To 200' Deep, Add</i> 387.86 <i>For Right Angle Drilling, Add</i> 383.09 <i>For &gt;3 To 9, Deduct</i> -14.20 <i>For &gt;9, Deduct</i> -29.34		
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,456.51 Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF. <i>For Right Angle Drilling, Add</i> 451.56 <i>For &gt;3 To 9, Deduct</i> -17.46 <i>For &gt;9, Deduct</i> -36.09		
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,607.74 Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> 135.08 <i>For &gt;100' To 150' Deep, Add</i> 401.94 <i>For &gt;150' To 200' Deep, Add</i> 510.50 <i>For Right Angle Drilling, Add</i> 492.26 <i>For &gt;3 To 9, Deduct</i> -21.13 <i>For &gt;9, Deduct</i> -43.68		
31 64 13 00-0058	VLF		72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,767.11 Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF. <i>For Right Angle Drilling, Add</i> 533.62 <i>For &gt;3 To 9, Deduct</i> -25.46 <i>For &gt;9, Deduct</i> -52.62		
31 64 13 00-0059	VLF		78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....1,826.06 Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> 159.70 <i>For &gt;100' To 150' Deep, Add</i> 456.52 <i>For &gt;150' To 200' Deep, Add</i> 587.66 <i>For Right Angle Drilling, Add</i> 539.51 <i>For &gt;3 To 9, Deduct</i> -29.88 <i>For &gt;9, Deduct</i> -61.76		
31 64 13 00-0060	VLF		84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water .....2,176.33 Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF. <i>For Right Angle Drilling, Add</i> 646.19 <i>For &gt;3 To 9, Deduct</i> -34.66 <i>For &gt;9, Deduct</i> -71.62		
<b>31 64 13 00-0061</b>			<b>For Bell Excavation And Concrete, Add</b> <small>(31 64 13 00-0047)</small>		
31 64 13 00-0062	EA		Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY .....693.31 <i>For &gt;3 To 9, Deduct</i> -4.37 <i>For &gt;9, Deduct</i> -9.03		
31 64 13 00-0063	EA		Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY .....2,440.08 <i>For &gt;3 To 9, Deduct</i> -15.54 <i>For &gt;9, Deduct</i> -32.12		
31 64 13 00-0064	EA		Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY .....3,662.34 <i>For &gt;3 To 9, Deduct</i> -26.15 <i>For &gt;9, Deduct</i> -54.04		
31 64 13 00-0065	EA		Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY .....5,213.36 <i>For &gt;3 To 9, Deduct</i> -36.75 <i>For &gt;9, Deduct</i> -75.95		
31 64 13 00-0066	EA		Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY .....6,881.88 <i>For &gt;3 To 9, Deduct</i> -44.20 <i>For &gt;9, Deduct</i> -91.34		
31 64 13 00-0067	EA		Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY .....8,381.69 <i>For &gt;3 To 9, Deduct</i> -51.81 <i>For &gt;9, Deduct</i> -107.07		
31 64 13 00-0068	EA		Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY .....12,691.26 <i>For &gt;3 To 9, Deduct</i> -86.61 <i>For &gt;9, Deduct</i> -179.00		
31 64 13 00-0069	EA		Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY .....19,096.24 <i>For &gt;3 To 9, Deduct</i> -134.37 <i>For &gt;9, Deduct</i> -277.71		
<b>31 64 13 00-0070</b>			<b>Caisson Setup And Removal</b> <small>(31 64 13)</small>		
			Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA		Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete .....3,222.64 <i>For &gt;3 To 9, Deduct</i> -14.83 <i>For &gt;9, Deduct</i> -30.65		
31 64 13 00-0072	EA		Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete .....4,560.46 <i>For &gt;3 To 9, Deduct</i> -39.54 <i>For &gt;9, Deduct</i> -81.72		
31 64 13 00-0073	EA		Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter .....1,512.46		
31 64 13 00-0074	EA		Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter .....2,016.61		
31 64 13 00-0075	EA		Relocate Caisson Equipment To Different Hole On-Site Without Dismantling .....126.04		



<b>Earthwork</b>	<b>31</b>	<b>CS</b>
<b>Special Foundations And Load-bearing Elements</b>	<b>31 60</b>	
<b>Caissons</b>	<b>31 64</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**31 66 Special Foundation** (31 60)

**31 66 15 Helical Foundation Piles** (31 66)

**31 66 15 00-0001 Helical Pier Restoration (Atlas)** (31 66 15)

31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal).....	2,851.68
		Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling	
		<i>For &gt;3 To 9, Deduct</i>	-213.88
		<i>For &gt;9, Deduct</i>	-442.01
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location .....	333.78
		Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.	
		<i>For &gt;3 To 9, Deduct</i>	-25.03
		<i>For &gt;9, Deduct</i>	-51.74
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout .....	333.78
		<i>For &gt;3 To 9, Deduct</i>	-25.03
		<i>For &gt;9, Deduct</i>	-51.74

**31 68 Foundation Anchors** (31 60)

**31 68 13 Rock Foundation Anchors** (31 68)

**31 68 13 00-0001 Materials And Placement** (31 68 13)

**31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615** (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

**31 68 13 00-0003 3/4" Diameter** (31 68 13 00-0002)

31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	157.61
		<i>For &gt;3 To 9, Deduct</i>	-7.14
		<i>For &gt;9, Deduct</i>	-14.75
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	225.63
		<i>For &gt;3 To 9, Deduct</i>	-10.68
		<i>For &gt;9, Deduct</i>	-22.06
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	272.82
		<i>For &gt;3 To 9, Deduct</i>	-14.21
		<i>For &gt;9, Deduct</i>	-29.38
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	361.65
		<i>For &gt;3 To 9, Deduct</i>	-17.75
		<i>For &gt;9, Deduct</i>	-36.69

**31 68 13 00-0008 1" Diameter** (31 68 13 00-0002)

31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	197.05
		<i>For &gt;3 To 9, Deduct</i>	-10.09
		<i>For &gt;9, Deduct</i>	-20.86
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	301.47
		<i>For &gt;3 To 9, Deduct</i>	-16.36
		<i>For &gt;9, Deduct</i>	-33.82
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	385.07
		<i>For &gt;3 To 9, Deduct</i>	-22.63
		<i>For &gt;9, Deduct</i>	-46.78
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	510.33
		<i>For &gt;3 To 9, Deduct</i>	-28.91
		<i>For &gt;9, Deduct</i>	-59.74

**31 68 13 00-0013 1-3/8" Diameter** (31 68 13 00-0002)

31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	318.68
		<i>For &gt;3 To 9, Deduct</i>	-19.22
		<i>For &gt;9, Deduct</i>	-39.71
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	492.84
		<i>For &gt;3 To 9, Deduct</i>	-30.72
		<i>For &gt;9, Deduct</i>	-63.48
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	646.20
		<i>For &gt;3 To 9, Deduct</i>	-42.22
		<i>For &gt;9, Deduct</i>	-87.25
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	841.18
		<i>For &gt;3 To 9, Deduct</i>	-53.72
		<i>For &gt;9, Deduct</i>	-111.02

**31 68 13 00-0018 2" Diameter** (31 68 13 00-0002)

31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	688.57
		<i>For &gt;3 To 9, Deduct</i>	-46.96
		<i>For &gt;9, Deduct</i>	-97.05
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	1,022.03
		<i>For &gt;3 To 9, Deduct</i>	-70.41
		<i>For &gt;9, Deduct</i>	-145.50

<b>31</b>	<b>31 Earthwork</b>
	<b>31 60 Special Foundations And Load-bearing Elements</b>
	<b>31 68 Foundation Anchors</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0021 EA 2" Rock Bolt, 15' Hollow Core Prestressable Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	1,334.62 -93.85 -193.96	
31 68 13 00-0022 EA 2" Rock Bolt, 20' Hollow Core Prestressable Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	1,688.90 -117.30 -242.42	
<b>31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108</b> <small>(31 68 13 00-0001)</small> Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
<b>31 68 13 00-0024 3/4" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0025 EA 3/4" Rock Bolt, 5' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	117.70 -4.14 -8.56	
31 68 13 00-0026 EA 3/4" Rock Bolt, 10' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	157.01 -5.53 -11.43	
31 68 13 00-0027 EA 3/4" Rock Bolt, 15' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	175.44 -6.91 -14.28	
31 68 13 00-0028 EA 3/4" Rock Bolt, 20' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	234.19 -8.19 -16.94	
<b>31 68 13 00-0029 1" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0030 EA 1" Rock Bolt, 5' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	138.17 -5.68 -11.73	
31 68 13 00-0031 EA 1" Rock Bolt, 10' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	191.51 -8.12 -16.77	
31 68 13 00-0032 EA 1" Rock Bolt, 15' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	222.37 -10.43 -21.56	
31 68 13 00-0033 EA 1" Rock Bolt, 20' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	294.88 -12.75 -26.34	
<b>31 68 13 00-0034 1-1/4" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0035 EA 1-1/4" Rock Bolt, 5' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	198.30 -10.19 -21.05	
31 68 13 00-0036 EA 1-1/4" Rock Bolt, 10' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	277.70 -14.58 -30.13	
31 68 13 00-0037 EA 1-1/4" Rock Bolt, 15' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	335.89 -18.95 -39.15	
31 68 13 00-0038 EA 1-1/4" Rock Bolt, 20' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	433.30 -23.13 -47.80	
<b>31 68 13 00-0039 2" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0040 EA 2" Rock Bolt, 5' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	504.37 -33.14 -68.49	
31 68 13 00-0041 EA 2" Rock Bolt, 10' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	716.08 -47.46 -98.08	
31 68 13 00-0042 EA 2" Rock Bolt, 15' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	871.31 -59.10 -122.14	
31 68 13 00-0043 EA 2" Rock Bolt, 20' Super High-Tensile Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	1,077.57 -71.45 -147.66	
<b>31 68 13 00-0044 Solid Rebar Anchors, ASTM A615</b> <small>(31 68 13 00-0001)</small> Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
<b>31 68 13 00-0045 3/4" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	111.12 -3.65 -7.54	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	143.11 -4.49 -9.27	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor.....	154.26	
<i>For &gt;3 To 9, Deduct</i>	-5.32	
<i>For &gt;9, Deduct</i>	-11.00	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor.....	207.07	
<i>For &gt;3 To 9, Deduct</i>	-6.16	
<i>For &gt;9, Deduct</i>	-12.73	
<b>31 68 13 00-0050 1" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor.....	123.78	
<i>For &gt;3 To 9, Deduct</i>	-4.60	
<i>For &gt;9, Deduct</i>	-9.50	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor.....	164.04	
<i>For &gt;3 To 9, Deduct</i>	-6.06	
<i>For &gt;9, Deduct</i>	-12.52	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor.....	183.50	
<i>For &gt;3 To 9, Deduct</i>	-7.52	
<i>For &gt;9, Deduct</i>	-15.53	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor.....	244.55	
<i>For &gt;3 To 9, Deduct</i>	-8.97	
<i>For &gt;9, Deduct</i>	-18.54	
<b>31 68 13 00-0055 1-1/4" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor.....	174.39	
<i>For &gt;3 To 9, Deduct</i>	-8.39	
<i>For &gt;9, Deduct</i>	-17.35	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor.....	225.58	
<i>For &gt;3 To 9, Deduct</i>	-10.67	
<i>For &gt;9, Deduct</i>	-22.05	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor.....	256.02	
<i>For &gt;3 To 9, Deduct</i>	-12.95	
<i>For &gt;9, Deduct</i>	-26.77	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor.....	328.08	
<i>For &gt;3 To 9, Deduct</i>	-15.24	
<i>For &gt;9, Deduct</i>	-31.49	
<b>31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar</b> <small>(31 68 13 00-0001)</small>		
<small>Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.</small>		
<b>31 68 13 00-0061 Rebar #6</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	66.71	
<i>For &gt;3 To 9, Deduct</i>	-0.32	
<i>For &gt;9, Deduct</i>	-0.66	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	91.77	
<i>For &gt;3 To 9, Deduct</i>	-0.64	
<i>For &gt;9, Deduct</i>	-1.31	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	96.01	
<i>For &gt;3 To 9, Deduct</i>	-0.95	
<i>For &gt;9, Deduct</i>	-1.97	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	133.41	
<i>For &gt;3 To 9, Deduct</i>	-0.64	
<i>For &gt;9, Deduct</i>	-1.31	
<b>31 68 13 00-0066 Rebar #8</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	70.01	
<i>For &gt;3 To 9, Deduct</i>	-0.57	
<i>For &gt;9, Deduct</i>	-1.17	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	98.37	
<i>For &gt;3 To 9, Deduct</i>	-1.13	
<i>For &gt;9, Deduct</i>	-2.34	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	105.91	
<i>For &gt;3 To 9, Deduct</i>	-1.70	
<i>For &gt;9, Deduct</i>	-3.51	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	155.09	
<i>For &gt;3 To 9, Deduct</i>	-2.26	
<i>For &gt;9, Deduct</i>	-4.67	
<b>31 68 13 00-0071 Rebar #10</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0072 EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	74.72	
<i>For &gt;3 To 9, Deduct</i>	-0.92	
<i>For &gt;9, Deduct</i>	-1.90	
31 68 13 00-0073 EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	107.79	
<i>For &gt;3 To 9, Deduct</i>	-1.84	
<i>For &gt;9, Deduct</i>	-3.80	
31 68 13 00-0074 EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	120.05	
<i>For &gt;3 To 9, Deduct</i>	-2.76	
<i>For &gt;9, Deduct</i>	-5.70	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0075	EA		#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar .....	173.94	
			<i>For &gt;3 To 9, Deduct</i>	-3.68	
			<i>For &gt;9, Deduct</i>	-7.60	
<b>31 68 13 00-0076</b>			<b>Rebar #14</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0077	EA		#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar .....	86.03	
			<i>For &gt;3 To 9, Deduct</i>	-1.77	
			<i>For &gt;9, Deduct</i>	-3.65	
31 68 13 00-0078	EA		#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar .....	130.41	
			<i>For &gt;3 To 9, Deduct</i>	-3.53	
			<i>For &gt;9, Deduct</i>	-7.30	
31 68 13 00-0079	EA		#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar .....	153.97	
			<i>For &gt;3 To 9, Deduct</i>	-5.30	
			<i>For &gt;9, Deduct</i>	-10.96	
31 68 13 00-0080	EA		#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar .....	219.18	
			<i>For &gt;3 To 9, Deduct</i>	-7.07	
			<i>For &gt;9, Deduct</i>	-14.61	
<b>31 68 13 00-0081</b>			<b>Plastic Rebar Collars, Sizes #6-#14</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0082	EA		Plastic Rebar Collars For Rebar #4 To #14 .....	0.93	
			<i>For &gt;3 To 9, Deduct</i>	-0.07	
			<i>For &gt;9, Deduct</i>	-0.14	
<b>31 68 13 00-0083</b>			<b>12" Long Resin Cartridges</b> <small>(31 68 13 00-0001)</small>		
31 68 13 00-0084	EA		7/8" Resin Cartridge 12" Long.....	1.53	
			<i>For &gt;3 To 9, Deduct</i>	-0.11	
			<i>For &gt;9, Deduct</i>	-0.24	
31 68 13 00-0085	EA		1" Resin Cartridge 12" Long.....	2.10	
			<i>For &gt;3 To 9, Deduct</i>	-0.16	
			<i>For &gt;9, Deduct</i>	-0.33	
31 68 13 00-0086	EA		1-1/16" Resin Cartridge 12" Long.....	2.25	
			<i>For &gt;3 To 9, Deduct</i>	-0.17	
			<i>For &gt;9, Deduct</i>	-0.35	
31 68 13 00-0087	EA		1-1/4" Resin Cartridge 12" Long.....	2.43	
			<i>For &gt;3 To 9, Deduct</i>	-0.18	
			<i>For &gt;9, Deduct</i>	-0.38	
31 68 13 00-0088	EA		1-3/8" Resin Cartridge 12" Long.....	2.79	
			<i>For &gt;3 To 9, Deduct</i>	-0.21	
			<i>For &gt;9, Deduct</i>	-0.43	
31 68 13 00-0089	EA		1-9/16" Resin Cartridge 12" Long.....	3.49	
			<i>For &gt;3 To 9, Deduct</i>	-0.26	
			<i>For &gt;9, Deduct</i>	-0.54	
31 68 13 00-0090	EA		1-3/4" Resin Cartridge 12" Long.....	4.80	
			<i>For &gt;3 To 9, Deduct</i>	-0.36	
			<i>For &gt;9, Deduct</i>	-0.74	
<b>31 68 13 00-0091</b>			<b>Head Assembly</b> <small>(31 68 13 00-0001)</small>		
<b>31 68 13 00-0092</b>			<b>3/4" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0093	EA		3/4" Rod Head Assembly 1-5/8" Short Cone and Shell.....	20.62	
			<i>For &gt;3 To 9, Deduct</i>	-1.55	
			<i>For &gt;9, Deduct</i>	-3.20	
31 68 13 00-0094	EA		3/4" Rod Head Assembly 1-3/4" Short Cone and Shell.....	17.36	
			<i>For &gt;3 To 9, Deduct</i>	-1.30	
			<i>For &gt;9, Deduct</i>	-2.69	
31 68 13 00-0095	EA		3/4" Rod Head Assembly 1-7/8" Short Cone and Shell.....	18.21	
			<i>For &gt;3 To 9, Deduct</i>	-1.37	
			<i>For &gt;9, Deduct</i>	-2.82	
31 68 13 00-0096	EA		3/4" Rod Head Assembly 1-3/4" Long Cone and Shell .....	32.70	
			<i>For &gt;3 To 9, Deduct</i>	-2.45	
			<i>For &gt;9, Deduct</i>	-5.07	
31 68 13 00-0097	EA		3/4" Rod Head Assembly 1-7/8" Long Cone and Shell .....	32.70	
			<i>For &gt;3 To 9, Deduct</i>	-2.45	
			<i>For &gt;9, Deduct</i>	-5.07	
31 68 13 00-0098	EA		3/4" Rod Head Assembly 1-3/4" Long Cone and Shell .....	30.98	
			<i>For &gt;3 To 9, Deduct</i>	-2.32	
			<i>For &gt;9, Deduct</i>	-4.80	
<b>31 68 13 00-0099</b>			<b>1" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0100	EA		1" Rod Head Assembly 1-5/8" Short Cone and Shell.....	22.22	
			<i>For &gt;3 To 9, Deduct</i>	-1.67	
			<i>For &gt;9, Deduct</i>	-3.44	
31 68 13 00-0101	EA		1" Rod Head Assembly 1-3/4" Short Cone and Shell.....	19.01	
			<i>For &gt;3 To 9, Deduct</i>	-1.43	
			<i>For &gt;9, Deduct</i>	-2.95	
31 68 13 00-0102	EA		1" Rod Head Assembly 1-7/8" Short Cone and Shell.....	19.86	
			<i>For &gt;3 To 9, Deduct</i>	-1.49	
			<i>For &gt;9, Deduct</i>	-3.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell .....34.40 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-2.58 -5.33	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell .....34.40 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-2.58 -5.33	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell .....32.80 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-2.46 -5.08	
<b>31 68 13 00-0106 1-1/4" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell .....49.57 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-3.72 -7.68	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell .....57.91 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-4.34 -8.98	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell .....58.74 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-4.41 -9.10	
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell .....52.09 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-3.91 -8.07	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell .....60.74 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-4.56 -9.41	
<b>31 68 13 00-0112 1-7/8" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl .....195.11 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-14.63 -30.24	
31 68 13 00-0114 EA 1-7/8" Rod Head Assembly 3" Long Cone and Shell .....134.51 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-10.09 -20.85	
<b>31 68 13 00-0115 2" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116 EA 2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl .....195.11 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-14.63 -30.24	
31 68 13 00-0117 EA 2" Rod Head Assembly 3" Long Cone and Shell .....134.51 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-10.09 -20.85	
<b>31 68 13 00-0118 Steel Plates With Standard Hole And Washers</b> <small>(31 68 13 00-0001)</small>		
<b>31 68 13 00-0119 Steel Plates</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120 EA 1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer .....3.03 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-0.23 -0.47	
31 68 13 00-0121 EA 1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer .....5.60 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-0.42 -0.87	
31 68 13 00-0122 EA 3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer .....7.79 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-0.58 -1.21	
31 68 13 00-0123 EA 3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer .....13.66 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-1.02 -2.12	
31 68 13 00-0124 EA 1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer .....5.30 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-0.40 -0.82	
31 68 13 00-0125 EA 1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer .....13.93 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-1.04 -2.16	
31 68 13 00-0126 EA 3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer .....23.12 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-1.73 -3.58	
31 68 13 00-0127 EA 3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer .....32.76 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-2.46 -5.08	
31 68 13 00-0128 EA 1" x 4" x 7" Steel Plate For Rock Bolt With Washer .....19.66 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-1.47 -3.05	
31 68 13 00-0129 EA 1" x 9" x 9" Steel Plate For Rock Bolt With Washer .....55.63 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-4.17 -8.62	
31 68 13 00-0130 EA 1" x 12" x 12" Steel Plate For Rock Bolt With Washer .....81.98 <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	-6.15 -12.71	

**31 Earthwork****31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0131	EA		1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer .....	35.98	
			<i>For &gt;3 To 9, Deduct</i>	-2.70	
			<i>For &gt;9, Deduct</i>	-5.58	
31 68 13 00-0132	EA		1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer .....	97.33	
			<i>For &gt;3 To 9, Deduct</i>	-7.30	
			<i>For &gt;9, Deduct</i>	-15.09	
31 68 13 00-0133	EA		1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer .....	48.67	
			<i>For &gt;3 To 9, Deduct</i>	-3.65	
			<i>For &gt;9, Deduct</i>	-7.54	
31 68 13 00-0134	EA		1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer .....	117.07	
			<i>For &gt;3 To 9, Deduct</i>	-8.78	
			<i>For &gt;9, Deduct</i>	-18.15	
31 68 13 00-0135	EA		1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer .....	53.72	
			<i>For &gt;3 To 9, Deduct</i>	-4.03	
			<i>For &gt;9, Deduct</i>	-8.33	
31 68 13 00-0136	EA		1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer .....	129.83	
			<i>For &gt;3 To 9, Deduct</i>	-9.74	
			<i>For &gt;9, Deduct</i>	-20.12	
<b>31 68 13 00-0137</b>			<b>Hardened Washers</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0138	EA		Hardened Washer For 3/4" Diameter Rock Bolt.....	0.68	
			<i>For &gt;3 To 9, Deduct</i>	-0.05	
			<i>For &gt;9, Deduct</i>	-0.11	
31 68 13 00-0139	EA		Hardened Washer For 1" Diameter Rock Bolt.....	0.94	
			<i>For &gt;3 To 9, Deduct</i>	-0.07	
			<i>For &gt;9, Deduct</i>	-0.15	
31 68 13 00-0140	EA		Hardened Washer For 1-1/4" Diameter Rock Bolt .....	2.64	
			<i>For &gt;3 To 9, Deduct</i>	-0.20	
			<i>For &gt;9, Deduct</i>	-0.41	
31 68 13 00-0141	EA		Hardened Washer For 2" Diameter Rock Bolt.....	6.57	
			<i>For &gt;3 To 9, Deduct</i>	-0.49	
			<i>For &gt;9, Deduct</i>	-1.02	
<b>31 68 13 00-0142</b>			<b>Beveled Washers</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143	EA		Beveled Washer For 3/4" Diameter Rock Bolt .....	1.72	
			<i>For &gt;3 To 9, Deduct</i>	-0.13	
			<i>For &gt;9, Deduct</i>	-0.27	
31 68 13 00-0144	EA		Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt.....	1.70	
			<i>For &gt;3 To 9, Deduct</i>	-0.13	
			<i>For &gt;9, Deduct</i>	-0.26	
31 68 13 00-0145	EA		Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt .....	2.57	
			<i>For &gt;3 To 9, Deduct</i>	-0.19	
			<i>For &gt;9, Deduct</i>	-0.40	
31 68 13 00-0146	EA		Beveled Washer For 1-1/2" Diameter Rock Bolt .....	10.98	
			<i>For &gt;3 To 9, Deduct</i>	-0.82	
			<i>For &gt;9, Deduct</i>	-1.70	
31 68 13 00-0147	EA		Beveled Washer For 2" Diameter Rock Bolt .....	7.59	
			<i>For &gt;3 To 9, Deduct</i>	-0.57	
			<i>For &gt;9, Deduct</i>	-1.18	
<b>31 68 13 00-0148</b>			<b>Hex Nuts</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149	EA		Hex Nut For 3/4" Diameter Rock Bolt.....	1.34	
			<i>For &gt;3 To 9, Deduct</i>	-0.10	
			<i>For &gt;9, Deduct</i>	-0.21	
31 68 13 00-0150	EA		Hex Nut For 1" Diameter Rock Bolt.....	2.19	
			<i>For &gt;3 To 9, Deduct</i>	-0.16	
			<i>For &gt;9, Deduct</i>	-0.34	
31 68 13 00-0151	EA		Hex Nut For 1-1/4" Diameter Rock Bolt.....	8.98	
			<i>For &gt;3 To 9, Deduct</i>	-0.67	
			<i>For &gt;9, Deduct</i>	-1.39	
31 68 13 00-0152	EA		Hex Nut For 1-1/2" Diameter Rock Bolt.....	5.65	
			<i>For &gt;3 To 9, Deduct</i>	-0.42	
			<i>For &gt;9, Deduct</i>	-0.88	
31 68 13 00-0153	EA		Hex Nut For 2" Diameter Rock Bolt.....	36.07	
			<i>For &gt;3 To 9, Deduct</i>	-2.71	
			<i>For &gt;9, Deduct</i>	-5.59	
<b>31 68 13 00-0154</b>			<b>Drilling Operation For Rockbolts</b> <small>(31 68 13)</small>		
<b>31 68 13 00-0155</b>			<b>Drill Holes For Rock Bolts</b> <small>(31 68 13 00-0154)</small>		
<b>31 68 13 00-0156</b>			<b>3/4" Diameter Bolt, 1-3/4" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157	EA		Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts .....	147.60	
31 68 13 00-0158	EA		Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts .....	278.79	
31 68 13 00-0159	EA		Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts .....	418.19	
31 68 13 00-0160	EA		Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts .....	501.82	
<b>31 68 13 00-0161</b>			<b>1" Diameter Bolt, 2" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162	EA		Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt .....	193.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	358.45	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	501.82	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	627.29	
<b>31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole</b> (31 68 13 00-0155)		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	209.10	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	418.19	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	627.29	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	836.38	
<b>31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole</b> (31 68 13 00-0155)		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	250.91	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	501.82	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	836.38	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,254.57	
<b>31 68 13 00-0176 Tools</b> (31 68 13)		
<b>31 68 13 00-0177 Hydraulic Jacks, Monthly Rental</b> (31 68 13 00-0176)		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	419.68	
For >3 To 9, Deduct	-31.48	
For >9, Deduct	-65.05	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke.....	618.47	
For >3 To 9, Deduct	-46.39	
For >9, Deduct	-95.86	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,037.56	
For >3 To 9, Deduct	-77.82	
For >9, Deduct	-160.82	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,553.36	
For >3 To 9, Deduct	-116.50	
For >9, Deduct	-240.77	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke.....	2,321.99	
For >3 To 9, Deduct	-174.15	
For >9, Deduct	-359.91	
<b>31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental</b> (31 68 13 00-0176)		
<b>31 68 13 00-0184 0-500 Foot Pounds (0-678J)</b> (31 68 13 00-0183)		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	146.86	
For >3 To 9, Deduct	-11.01	
For >9, Deduct	-22.76	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds.....	92.06	
For >3 To 9, Deduct	-6.90	
For >9, Deduct	-14.27	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental.....	239.09	
For >3 To 9, Deduct	-17.93	
For >9, Deduct	-37.06	
<b>31 68 13 00-0188 0-600 Foot Pounds (0-814J)</b> (31 68 13 00-0183)		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental.....	166.74	
For >3 To 9, Deduct	-12.51	
For >9, Deduct	-25.84	
<b>31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J)</b> (31 68 13 00-0183)		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	320.22	
For >3 To 9, Deduct	-24.02	
For >9, Deduct	-49.63	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental.....	78.98	
For >3 To 9, Deduct	-5.92	
For >9, Deduct	-12.24	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental.....	399.21	
For >3 To 9, Deduct	-29.94	
For >9, Deduct	-61.88	
<b>31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier</b> (31 68 13 00-0176)		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	410.13	
For >3 To 9, Deduct	-30.76	
For >9, Deduct	-63.57	
<b>31 68 13 00-0196 Pneumatic Drive Torque Wrench</b> (31 68 13 00-0176)		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	877.57	
For >3 To 9, Deduct	-65.82	
For >9, Deduct	-136.02	



<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 60</b>	<b>Special Foundations And Load-bearing Elements</b>
	<b>31 68</b>	<b>Foundation Anchors</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 68 13 00-0198</b> <b>Grouting</b> <small>(31 68 13)</small>		
<b>31 68 13 00-0199</b> <b>Grouting With Pumps</b> <small>(31 68 13 00-0198)</small>		
Note: Grout material and labor only.		
31 68 13 00-0200      GAL    Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery .....	15.33	
For >3 To 9, Deduct	-0.55	
For >9, Deduct	-1.14	
31 68 13 00-0201      GAL    Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery .....	25.51	
For >3 To 9, Deduct	-0.55	
For >9, Deduct	-1.14	
31 68 13 00-0202      GAL    Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery .....	23.33	
For >3 To 9, Deduct	-0.55	
For >9, Deduct	-1.14	
 <b>31 68 13 00-0203</b> <b>Grout Pumps, Monthly Rental</b> <small>(31 68 13 00-0198)</small>		
31 68 13 00-0204      EA    Hand Grout Pump, Monthly Rental .....	142.02	
For >3 To 9, Deduct	-10.65	
For >9, Deduct	-22.01	
31 68 13 00-0205      EA    Air Powered Programmable Feed Grout Pump Monthly Rental .....	1,194.72	
For >3 To 9, Deduct	-89.60	
For >9, Deduct	-185.18	
31 68 13 00-0206      EA    Air Powered, Piston Drive Grout Pump Monthly Rental .....	2,085.87	
For >3 To 9, Deduct	-156.44	
For >9, Deduct	-323.31	
 <b>31 68 13 00-0207</b> <b>Rock Bolt Testing</b> <small>(31 68 13)</small>		
31 68 13 00-0208      EA    Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing .....	346.46	
For >3 To 9, Deduct	-25.98	
For >9, Deduct	-53.70	

**END OF SECTION 31**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 32 Exterior Improvements

### 32 01 Operation And Maintenance Of Exterior Improvements <sup>(32)</sup>

#### 32 01 11 Paving Cleaning <sup>(32 01)</sup>

#### **32 01 11 53 Paint Removal From Paving** <sup>(32 01 11)</sup>

#### 32 01 11 53-0001 Remove Pavement Markings <sup>(32 01 11 53)</sup>

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping .....	1.83
		For Up To 250, Add	0.92
		For >250 To 1,000, Add	0.46
		For >5,000 To 10,000, Deduct	-0.27
		For >10,000 To 25,000, Deduct	-0.46
		For >25,000 To 50,000, Deduct	-0.64
		For >50,000, Deduct	-0.73
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping .....	2.20
		For Up To 250, Add	1.10
		For >250 To 1,000, Add	0.55
		For >5,000 To 10,000, Deduct	-0.33
		For >10,000 To 25,000, Deduct	-0.55
		For >25,000 To 50,000, Deduct	-0.77
		For >50,000, Deduct	-0.88
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping .....	2.63
		For Up To 250, Add	1.32
		For >250 To 1,000, Add	0.66
		For >5,000 To 10,000, Deduct	-0.39
		For >10,000 To 25,000, Deduct	-0.66
		For >25,000 To 50,000, Deduct	-0.92
		For >50,000, Deduct	-1.05
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping .....	3.15
		For Up To 250, Add	1.58
		For >250 To 1,000, Add	0.79
		For >5,000 To 10,000, Deduct	-0.47
		For >10,000 To 25,000, Deduct	-0.79
		For >25,000 To 50,000, Deduct	-1.10
		For >50,000, Deduct	-1.26
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols .....	3.15
		For Up To 250, Add	1.58
		For >250 To 1,000, Add	0.79
		For >5,000 To 10,000, Deduct	-0.47
		For >10,000 To 25,000, Deduct	-0.79
		For >25,000 To 50,000, Deduct	-1.10
		For >50,000, Deduct	-1.26

#### 32 01 11 53-0007 Remove Pavement Markings (Monterey County) <sup>(32 01 11 53)</sup>

32 01 11 53-0008	LF	Remove Thermoplastic Pavement Stripe .....	1.25
32 01 11 53-0009	SF	Remove Thermoplastic Pavement Marking .....	5.10

#### 32 01 13 Flexible Paving Surface Treatment <sup>(32 01)</sup>

#### **32 01 13 61 Slurry Seal (Latex Modified)** <sup>(32 01 13)</sup>

#### 32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot <sup>(32 01 13 61)</sup>

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum .....	506.67
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat .....	1.76
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat .....	1.57
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat .....	1.43
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....	2.02
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.11
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....	1.87
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.11
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....	1.76
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.11

**32 Exterior Improvements****32 01 Operation And Maintenance Of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.65 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.11		
32 01 13 61-0010 SY >20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.65 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.11		
32 01 13 61-0011 SY >50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....1.46 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.26 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.32 For Rubberized Polymer Modified Emulsion (RPME), Add 0.42 For Each 0.5% Of Latex Addition, Add 0.11		
32 01 13 61-0012 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....2.73 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.31 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.37 For Rubberized Polymer Modified Emulsion (RPME), Add 0.47 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0013 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.50 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0014 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.33 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0015 SY >5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.16 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0016 SY >20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.01 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0017 SY >50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....1.87 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.26 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.32 For Rubberized Polymer Modified Emulsion (RPME), Add 0.42 For Each 0.5% Of Latex Addition, Add 0.16		
32 01 13 61-0018 SY Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....3.34 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.31 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.37 For Rubberized Polymer Modified Emulsion (RPME), Add 0.47 For Each 0.5% Of Latex Addition, Add 0.26		
32 01 13 61-0019 SY >500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....3.09 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.26		
32 01 13 61-0020 SY >1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.91 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.26		
32 01 13 61-0021 SY >5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.73 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.26		
32 01 13 61-0022 SY >20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.57 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.26		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0023 SY >50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....	2.42	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.26	
<b>32 01 13 62 Asphalt Surface Treatment (32 01 13)</b>		
<b>32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)</b>		
Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.		
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	5.87	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	5.49	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	5.15	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	4.87	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	4.61	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	4.39	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	4.23	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....	4.14	
<b>32 01 16 Flexible Paving Rehabilitation (32 01)</b>		
<b>32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)</b>		
<b>32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71)</b>		
Note: Includes direct loading into truck.		
<b>32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)</b>		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt .....	3.50	
For Up To 2,500, Add	2.63	
For >2,500 To 5,000, Add	0.88	
For >10,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.53	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt .....	4.67	
For Up To 2,500, Add	3.50	
For >2,500 To 5,000, Add	1.17	
For >10,000 To 25,000, Deduct	-0.47	
For >25,000, Deduct	-0.70	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt .....	6.21	
For Up To 2,500, Add	4.66	
For >2,500 To 5,000, Add	1.55	
For >10,000 To 25,000, Deduct	-0.62	
For >25,000, Deduct	-0.93	
<b>32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)</b>		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt .....	22.14	
For >100 To 1,000, Deduct	-11.07	
For >1,000, Deduct	-16.61	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt .....	29.32	
For >100 To 1,000, Deduct	-14.66	
For >1,000, Deduct	-21.99	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt .....	39.05	
For >100 To 1,000, Deduct	-19.53	
For >1,000, Deduct	-29.29	
<b>32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)</b>		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth .....	5.95	
<b>32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)</b>		
<b>32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)</b>		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	3.95	
For >12" To 18" Depth, Add	1.36	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	3.70	
For >12" To 18" Depth, Add	1.29	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	3.12	
For >12" To 18" Depth, Add	1.11	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	2.69	
For >12" To 18" Depth, Add	0.98	

**32 Exterior Improvements**  
**32 01 Operation And Maintenance Of Exterior Improvements**  
**32 01 16 Flexible Paving Rehabilitation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0006	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	2.42	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.90	
32 01 16 73-0007	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	2.24	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.85	
32 01 16 73-0008	SF		>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) .....	2.12	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.81	
<b>32 01 16 73-0009</b>			<b>Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C)</b> <small>(32 01 16 73)</small>		
			<small>73)</small> Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010	SF		Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	4.13	
			<i>For &gt;12" To 18" Depth, Add</i> .....	1.45	
32 01 16 73-0011	SF		>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	3.30	
			<i>For &gt;12" To 18" Depth, Add</i> .....	1.20	
32 01 16 73-0012	SF		>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	2.87	
			<i>For &gt;12" To 18" Depth, Add</i> .....	1.07	
32 01 16 73-0013	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	2.60	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.99	
32 01 16 73-0014	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	2.42	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.94	
32 01 16 73-0015	SF		>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) .....	2.30	
			<i>For &gt;12" To 18" Depth, Add</i> .....	0.90	
<b>32 01 16 73-0016</b>			<b>Supplemental Aggregate</b> <small>(32 01 16 73)</small>		
32 01 16 73-0017	TON		Supplemental Aggregate .....	73.86	
<b>32 01 16 73-0018</b>			<b>Cold-In-Place Recycling (CALTRAN)</b> <small>(32 01 16 73)</small>		
32 01 16 73-0019	TON		Sand Cover (CIPR) .....	58.00	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-1.45	
			<i>For &gt;1,000 To 2,500, Deduct</i> .....	-2.90	
			<i>For &gt;2,500 To 5,000, Deduct</i> .....	-4.06	
			<i>For &gt;5,000, Deduct</i> .....	-5.22	
32 01 16 73-0020	SY		Cold In Place Recycling (CIPR) .....	6.50	
			<i>For &gt;10,000 To 25,000, Deduct</i> .....	-0.65	
			<i>For &gt;25,000, Deduct</i> .....	-0.98	
32 01 16 73-0021	TON		Cement (CIPR) .....	135.00	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-3.38	
			<i>For &gt;1,000 To 2,500, Deduct</i> .....	-6.75	
			<i>For &gt;2,500 To 5,000, Deduct</i> .....	-9.45	
			<i>For &gt;5,000, Deduct</i> .....	-12.15	
32 01 16 73-0022	TON		Emulsified Recycling Agent (CIPR) .....	610.00	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-15.25	
			<i>For &gt;1,000 To 2,500, Deduct</i> .....	-30.50	
			<i>For &gt;2,500 To 5,000, Deduct</i> .....	-42.70	
			<i>For &gt;5,000, Deduct</i> .....	-54.90	
32 01 16 73-0023	TON		Asphaltic Emulsion (CIPR) .....	610.00	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-15.25	
			<i>For &gt;1,000 To 2,500, Deduct</i> .....	-30.50	
			<i>For &gt;2,500 To 5,000, Deduct</i> .....	-42.70	
			<i>For &gt;5,000, Deduct</i> .....	-54.90	
<b>32 01 16 74</b>			<b>In Place Hot Reused Asphalt Paving</b> <small>(32 01 16)</small>		
<b>32 01 16 74-0001</b>			<b>Reclamation, Pulverize And Blending With Existing</b> <small>(32 01 16 74)</small>		
			Note: Includes direct loading into truck.		
32 01 16 74-0002	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	11.92	
32 01 16 74-0003	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	5.96	
32 01 16 74-0004	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	2.99	
32 01 16 74-0005	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	2.83	
32 01 16 74-0006	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	3.25	
32 01 16 74-0007	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	13.02	
32 01 16 74-0008	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	6.51	
32 01 16 74-0009	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	3.07	
32 01 16 74-0010	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	14.32	
32 01 16 74-0011	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	7.15	
32 01 16 74-0012	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	3.58	
32 01 16 74-0013	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	3.30	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	15.62	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	7.81	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base .....	3.90	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.64	
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew .....	1,341.87	
 <b>32 01 16 74-0019 Rejuvenate, Respread Asphalt Pavement</b> <small>(32 01 16 74)</small>		
<i>Note: Includes direct loading into truck.</i>		
32 01 16 74-0020 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	9.74	
32 01 16 74-0021 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar .....	11.55	
32 01 16 74-0022 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings .....	152.15	
 <b>32 01 17 Flexible Paving Repair</b> <small>(32 01)</small>		
<i>See CSI section 32 12 16 00-0000 for large area resurfacing.</i>		
<b>32 01 17 61 Sealing Cracks In Asphalt Paving</b> <small>(32 01 17)</small>		
<i>Note: Includes removing loose materials and cleaning.</i>		
<b>32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair</b> <small>(32 01 17 61)</small>		
<i>Note: Includes removing loose materials and cleaning.</i>		
32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.28	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.34	
<i>For 1" x 1/2" Fill, Add</i>	0.64	
<i>For Backer Rod, Add</i>	0.74	
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler .....	1.03	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.28	
<i>For 1" x 1/2" Fill, Add</i>	0.53	
<i>For Backer Rod, Add</i>	0.67	
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler .....	0.82	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.23	
<i>For 1" x 1/2" Fill, Add</i>	0.43	
<i>For Backer Rod, Add</i>	0.61	
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler .....	0.72	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.20	
<i>For 1" x 1/2" Fill, Add</i>	0.38	
<i>For Backer Rod, Add</i>	0.58	
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler .....	0.63	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.18	
<i>For 1" x 1/2" Fill, Add</i>	0.33	
<i>For Backer Rod, Add</i>	0.54	
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler .....	0.58	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.16	
<i>For 1" x 1/2" Fill, Add</i>	0.30	
<i>For Backer Rod, Add</i>	0.52	
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler .....	2.45	
<i>For 3/8" x 1/4" Fill, Add</i>	0.53	
<i>For 1/2" x 1/4" Fill, Add</i>	0.96	
<i>For 1/2" x 1/2" Fill, Add</i>	2.18	
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.97	
<i>For 3/8" x 1/4" Fill, Add</i>	0.43	
<i>For 1/2" x 1/4" Fill, Add</i>	0.79	
<i>For 1/2" x 1/2" Fill, Add</i>	1.80	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.51	
<i>For 3/8" x 1/4" Fill, Add</i>	0.34	
<i>For 1/2" x 1/4" Fill, Add</i>	0.62	
<i>For 1/2" x 1/2" Fill, Add</i>	1.44	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.33	
<i>For 3/8" x 1/4" Fill, Add</i>	0.30	
<i>For 1/2" x 1/4" Fill, Add</i>	0.55	
<i>For 1/2" x 1/2" Fill, Add</i>	1.29	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.21	
<i>For 3/8" x 1/4" Fill, Add</i>	0.27	
<i>For 1/2" x 1/4" Fill, Add</i>	0.50	
<i>For 1/2" x 1/2" Fill, Add</i>	1.16	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.12	
<i>For 3/8" x 1/4" Fill, Add</i>	0.25	
<i>For 1/2" x 1/4" Fill, Add</i>	0.45	
<i>For 1/2" x 1/2" Fill, Add</i>	1.05	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth .....	0.45	

**32 Exterior Improvements****32 01 Operation And Maintenance Of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile ..... Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.	2,920.80	
<b>32 01 17 63 Flexible Pavement Repair (32 01 17)</b>		
<b>32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)</b> Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons.....	1,426.14	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified ..... Note: Use for each ton over 3 tons.	432.73	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,357.64	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix..... Note: Use for each ton over 3 tons.	409.90	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,323.40	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified..... Note: Use for each ton over 3 tons.	398.48	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,289.15	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix..... Note: Use for each ton over 3 tons.	387.07	
<b>32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)</b> Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,501.48	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix ..... Note: Use for each ton over 3 tons.	488.40	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,467.24	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified..... Note: Use for each ton over 3 tons.	476.98	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,432.99	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix..... Note: Use for each ton over 3 tons.	465.57	
<b>32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)</b> Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting. 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	1,960.83	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	262.08	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	1,892.33	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	239.25	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	1,858.09	
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	227.83	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	1,823.84	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	216.42	
<b>32 01 17 63-0026 Grind Asphalt (32 01 17 63)</b>		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	18.34	

**32 01 26 Rigid Paving Rehabilitation (32 01)****32 01 26 71 Grooving Of Concrete Paving (32 01 26)****32 01 26 71-0001 Roadway Grooving (32 01 26 71)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal .....	3,059.48	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal .....	2.83	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse .....	3,408.37	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse .....	3.69	
<b>32 01 26 71-0006 Rumble Strips (32 01 26 71)</b>		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt .....	3,624.41	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt .....	0.66	
<i>For &gt; 52500, Deduct</i>	-0.10	
32 01 26 71-0009 EA First 2000 LF Of MIARDS, Rumble Strips, Concrete .....	4,039.07	
32 01 26 71-0010 LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete .....	0.74	
<i>For &gt; 20000, Deduct</i>	-0.09	
<b>32 01 26 71-0011 Boat Ramps Grooving (32 01 26 71)</b>		
32 01 26 71-0012 SY Concrete Grooving, Boat Ramps .....	1.61	
<b>32 01 90 Operation And Maintenance Of Planting (32 01)</b>		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
<b>32 01 90 13 Fertilizing (32 01 90)</b>		
32 01 90 13-0001 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular) .....	12.43	
32 01 90 13-0002 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid) .....	9.13	
32 01 90 13-0003 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular) .....	9.99	
32 01 90 13-0004 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid) .....	8.20	
<b>32 01 90 19 Mowing (32 01 90)</b>		
32 01 90 19-0001 ACR Vegetation Cutting By Bush Hog .....	164.03	
Note: Includes normal debris removal, cutting, and trimming.		
<i>For &lt;1 Acre, Add</i>	41.01	
32 01 90 19-0002 MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF .....	5.53	
32 01 90 19-0003 MSF Mowing Vegetation With Riding Mower, >45,000 SF .....	4.29	
32 01 90 19-0004 MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF .....	20.48	
<i>For Work On Slopes &gt;2:1, Add</i>	5.12	
<i>For Clearing Light Brush, Add</i>	3.07	
32 01 90 19-0005 MSF Clear Vegetation With Weed Trimmer, >1,000 SF .....	17.21	
<i>For Work On Slopes &gt;2:1, Add</i>	4.30	
<i>For Clearing Light Brush, Add</i>	2.58	
32 01 90 19-0006 MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed .....	16.30	
<b>32 01 90 23 Pruning (32 01 90)</b>		
<b>32 01 90 23-0001 Tree Pruning (32 01 90 23)</b>		
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.		
<b>32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)</b>		
Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.		
32 01 90 23-0003 EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	26.27	
32 01 90 23-0004 EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	30.03	
32 01 90 23-0005 EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	33.78	
32 01 90 23-0006 EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	37.53	
32 01 90 23-0007 EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	57.04	
32 01 90 23-0008 EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	91.45	
32 01 90 23-0009 EA 6" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	99.82	
32 01 90 23-0010 EA 6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	174.17	
32 01 90 23-0011 EA 9" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	159.85	
32 01 90 23-0012 EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	278.62	
32 01 90 23-0013 EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	184.71	
32 01 90 23-0014 EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	322.21	
32 01 90 23-0015 EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	214.72	
32 01 90 23-0016 EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	374.46	
32 01 90 23-0017 EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	261.37	
32 01 90 23-0018 EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	452.92	
32 01 90 23-0019 EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	324.68	
32 01 90 23-0020 EA 30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	570.81	
32 01 90 23-0021 EA 36" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	444.70	
32 01 90 23-0022 EA 36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	773.64	
32 01 90 23-0023 EA 48" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	705.50	
32 01 90 23-0024 EA 48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	1,244.13	

**32 Exterior Improvements****32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**32 01 90 23-0025****Tree Pruning; Crown Thinning** (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	32.21
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	36.78
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	41.36
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand.....	46.02
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand.....	69.89
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	112.00
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand.....	122.28
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	213.37
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand.....	195.85
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	341.30
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand.....	226.25
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	394.69
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand.....	263.03
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	458.70
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand.....	320.15
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	554.84
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand.....	397.69
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	699.24
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand.....	544.74
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	947.70
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand.....	864.23
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	1,524.06

**32 01 90 23-0048****Tree Pruning; Crown Raising** (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand .....	35.51
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand .....	40.53
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand .....	45.64
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand .....	50.67
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand .....	77.02
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	123.50
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand .....	134.74
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	235.14
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand .....	215.81
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	376.14
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand .....	249.37
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	435.01
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand .....	289.90
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	505.55
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand .....	352.88
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	611.45
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand .....	438.31
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	770.56
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand .....	600.37
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	1,044.37
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand .....	952.42
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment .....	1,679.60

**32 01 90 23-0071****Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand .....	38.13
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand .....	43.54
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand .....	49.01
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand .....	54.42
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand .....	82.72
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	132.64
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand .....	144.73
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	252.56
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand .....	231.80
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	404.01
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand .....	267.83
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	467.23
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand .....	311.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0085 EA 18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	543.00	
32 01 90 23-0086 EA 24" Caliper, Tree Pruning (Crown Reduction), By Hand .....	379.01	
32 01 90 23-0087 EA 24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	656.74	
32 01 90 23-0088 EA 30" Caliper, Tree Pruning (Crown Reduction), By Hand .....	470.81	
32 01 90 23-0089 EA 30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	827.69	
32 01 90 23-0090 EA 36" Caliper, Tree Pruning (Crown Reduction), By Hand .....	644.81	
32 01 90 23-0091 EA 36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	1,121.79	
32 01 90 23-0092 EA 48" Caliper, Tree Pruning (Crown Reduction), By Hand .....	1,022.98	
32 01 90 23-0093 EA 48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment .....	1,803.96	
<b>32 01 90 23-0094</b> <b>Tree Pruning; Crown Restoration</b> <small>(32 01 90 23-0001)</small>		
<p>Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.</p>		
32 01 90 23-0095 EA 1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand .....	43.76	
32 01 90 23-0096 EA 2" Caliper, Tree Pruning (Crown Restoration), By Hand .....	50.07	
32 01 90 23-0097 EA 2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand .....	56.30	
32 01 90 23-0098 EA 3" Caliper, Tree Pruning (Crown Restoration), By Hand .....	62.53	
32 01 90 23-0099 EA 4" Caliper, Tree Pruning (Crown Restoration), By Hand .....	95.03	
32 01 90 23-0100 EA 4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	152.41	
32 01 90 23-0101 EA 6" Caliper, Tree Pruning (Crown Restoration), By Hand .....	166.34	
32 01 90 23-0102 EA 6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	290.27	
32 01 90 23-0103 EA 9" Caliper, Tree Pruning (Crown Restoration), By Hand .....	266.41	
32 01 90 23-0104 EA 9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	464.36	
32 01 90 23-0105 EA 12" Caliper, Tree Pruning (Crown Restoration), By Hand .....	307.84	
32 01 90 23-0106 EA 12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	536.99	
32 01 90 23-0107 EA 18" Caliper, Tree Pruning (Crown Restoration), By Hand .....	357.84	
32 01 90 23-0108 EA 18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	624.08	
32 01 90 23-0109 EA 24" Caliper, Tree Pruning (Crown Restoration), By Hand .....	435.60	
32 01 90 23-0110 EA 24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	754.89	
32 01 90 23-0111 EA 30" Caliper, Tree Pruning (Crown Restoration), By Hand .....	541.15	
32 01 90 23-0112 EA 30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	951.36	
32 01 90 23-0113 EA 36" Caliper, Tree Pruning (Crown Restoration), By Hand .....	741.20	
32 01 90 23-0114 EA 36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	1,289.44	
32 01 90 23-0115 EA 48" Caliper, Tree Pruning (Crown Restoration), By Hand .....	1,175.82	
32 01 90 23-0116 EA 48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	2,073.59	
<b>32 01 90 23-0117</b> <b>Palm Tree Pruning</b> <small>(32 01 90 23)</small>		
32 01 90 23-0118 EA Trim Mexican Palm Tree .....	79.58	
32 01 90 23-0119 EA Trim Date Palm Tree .....	179.58	
32 01 90 23-0120 LF Skin Palm Tree .....	20.40	
<b>32 01 90 23-0121</b> <b>Shrub Pruning</b> <small>(32 01 90 23)</small>		
32 01 90 23-0122 MSF Shrub Pruning, Prune, Shrub Bed .....	85.53	
32 01 90 23-0123 EA Shrub Pruning, Prune, Shrub Under 3' Height .....	3.00	
32 01 90 23-0124 EA Shrub Pruning, Prune, Shrub 4' Height .....	6.75	
32 01 90 23-0125 EA Shrub Pruning, Prune, Shrub Over 6' .....	12.01	
32 01 90 23-0126 EA Shrub Pruning, Prune Trees From Ground .....	30.03	
32 01 90 23-0127 EA Shrub Pruning, Prune Trees From Ground, High Work .....	75.07	
<b>32 01 90 23-0128</b> <b>Root Pruning</b> <small>(32 01 90 23)</small>		
<p>Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.</p>		
32 01 90 23-0129 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree .....	15.01	
32 01 90 23-0130 EA Root Pruning, One Side Of 2" Caliper Tree .....	18.77	
32 01 90 23-0131 EA Root Pruning, One Side Of 2-1/2" Caliper Tree .....	22.52	
32 01 90 23-0132 EA Root Pruning, One Side Of 3" Caliper Tree .....	30.03	
32 01 90 23-0133 EA Root Pruning, One Side Of 4" Caliper Tree .....	45.04	
32 01 90 23-0134 EA Root Pruning, One Side Of 6" Caliper Tree .....	56.30	
32 01 90 23-0135 EA Root Pruning, One Side Of 9" Caliper Tree .....	78.82	
32 01 90 23-0136 EA Root Pruning, One Side Of 12" Caliper Tree .....	90.08	
32 01 90 23-0137 EA Root Pruning, One Side Of 18" Caliper Tree .....	105.09	
32 01 90 23-0138 EA Root Pruning, One Side Of 24" Caliper Tree .....	131.37	
32 01 90 23-0139 EA Root Pruning, One Side Of 30" Caliper Tree .....	161.40	
32 01 90 23-0140 EA Root Pruning, One Side Of 36" Caliper Tree .....	187.66	
32 01 90 23-0141 EA Root Pruning, One Side Of 48" Caliper Tree .....	225.19	
<b>32 01 90 26</b> <b>Watering</b> <small>(32 01 90)</small>		
<p>Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.</p>		



**32 Exterior Improvements****32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>32 01 90 26-0001</b>	<b>Watering Lawns, Plants And Trees</b> (32 01 90 26)		
	Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002	MSF Watering Sod/Grass, Per Inch Of Water .....	33.94	
32 01 90 26-0003	CSF Watering Groundcover .....	5.31	
32 01 90 26-0004	CSF Watering Annuals And Perennials .....	9.51	
32 01 90 26-0005	EA Watering Trees, 1-1/2" To 5" Diameter By Hand .....	18.57	
32 01 90 26-0006	EA Watering Trees, 6" To 12" Diameter By Hand .....	24.40	
32 01 90 26-0007	EA Watering Trees, 13" To 18" Diameter By Hand .....	30.23	
32 01 90 26-0008	EA Watering Trees, >18" Diameter By Hand .....	37.22	
32 01 90 26-0009	EA Watering Shrub Or Bush By Hand .....	9.32	
<b>32 01 90 36</b>	<b>Weed And Brush Control</b> (32 01 90)		
<b>32 01 90 36-0001</b>	<b>Herbicide, Push Or Hand Spreader Applied</b> (32 01 90 36)		
32 01 90 36-0002	MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF) .....	6.72	
	For >45 To 90, Deduct .....	-0.36	
	For >90 To 225, Deduct .....	-1.03	
	For >225 To 870, Deduct .....	-1.70	
	For >870, Deduct .....	-2.06	
32 01 90 36-0003	MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF) .....	7.11	
	For >45 To 90, Deduct .....	-0.40	
	For >90 To 225, Deduct .....	-1.11	
	For >225 To 870, Deduct .....	-1.82	
	For >870, Deduct .....	-2.22	
32 01 90 36-0004	MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF) .....	7.08	
	Note: Includes pre and post emergent.		
	For >45 To 90, Deduct .....	-0.40	
	For >90 To 225, Deduct .....	-1.10	
	For >225 To 870, Deduct .....	-1.81	
	For >870, Deduct .....	-2.21	
32 01 90 36-0005	MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF) .....	7.32	
	Note: Includes pre and post emergents.		
	For >45 To 90, Deduct .....	-0.42	
	For >90 To 225, Deduct .....	-1.15	
	For >225 To 870, Deduct .....	-1.88	
	For >870, Deduct .....	-2.30	
<b>32 01 90 39</b>	<b>Pesticides</b> (32 01 90)		
32 01 90 39-0001	MSF Pesticide - Surface Eating .....	9.50	
32 01 90 39-0002	MSF Pesticide - Subsurface Eating .....	9.53	
32 01 90 39-0003	MSF Pesticide - Fungicide Application .....	10.27	
<b>32 01 90 43</b>	<b>Weed And Cultivate</b> (32 01 90)		
32 01 90 43-0001	MSF Weed Mulched Bed .....	36.83	
32 01 90 43-0002	MSF Weed Unmulched Bed .....	105.25	
32 01 90 43-0003	MSF Cultivate Bed .....	56.67	
<b>32 01 90 46</b>	<b>Hedge Trimming</b> (32 01 90)		
32 01 90 46-0001	LF Trim 0-5' High Hedge, 0-3' Wide .....	4.84	
32 01 90 46-0002	LF Trim 0-5' High Hedge, 4-6' Wide .....	7.26	
32 01 90 46-0003	LF Trim 5-10' High Hedge, 0-3' Wide .....	10.99	
32 01 90 46-0004	LF Trim 5-10' High Hedge, 4-6' Wide .....	11.20	
<b>32 01 90 53</b>	<b>Plant Growth Regulator Application</b> (32 01 90)		
32 01 90 53-0001	EA Plant Growth Regulator Application .....	5.30	

**32 10 Bases, Ballasts, And Paving** (32)**32 11 Base Courses** (32 10)**32 11 16 Subbase Courses** (32 11)**32 11 16 16 Aggregate Subbase Courses** (32 11 16)

<b>32 11 16 16-0001</b>	<b>Base And Subbase Courses For Roadways And Parking Areas</b> (32 11 16 16)		
	Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
<b>32 11 16 16-0002</b>	<b>Base And Subbase Courses By The CY</b> (32 11 16 16-0001)		
32 11 16 16-0003	CY Class II Graded Crushed Aggregate Roadway Base Course .....	71.94	
32 11 16 16-0004	CY Class III Graded Crushed Aggregate Roadway Base Course .....	69.33	
32 11 16 16-0005	CY Recycled Base Course .....	90.90	



<b>Exterior Improvements</b>		<b>32</b>
<b>Bases, Ballasts, And Paving</b>		<b>32 10</b>
Base Courses		32 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 11 16 16-0006</b>	<b>Class II Base Courses By The SY</b> <small>(32 11 16 16-0001)</small>				
32 11 16 16-0007	SY		2" Class II Graded Crushed Aggregate Base Course .....	4.00	
			<i>For Up To 500, Add</i>	1.04	
			<i>For &gt;500 To 1,000, Add</i>	0.40	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000, Deduct</i>	-0.26	
32 11 16 16-0008	SY		4" Class II Crushed Aggregate Base Course .....	7.99	
			<i>For Up To 500, Add</i>	2.08	
			<i>For &gt;500 To 1,000, Add</i>	0.80	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.30	
			<i>For &gt;10,000, Deduct</i>	-0.52	
32 11 16 16-0009	SY		6" Class II Crushed Aggregate Base Course .....	11.99	
			<i>For Up To 500, Add</i>	3.12	
			<i>For &gt;500 To 1,000, Add</i>	1.20	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.46	
			<i>For &gt;10,000, Deduct</i>	-0.78	
32 11 16 16-0010	SY		9" Class II Crushed Aggregate Base Course .....	17.98	
			<i>For Up To 500, Add</i>	4.68	
			<i>For &gt;500 To 1,000, Add</i>	1.80	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.68	
			<i>For &gt;10,000, Deduct</i>	-1.17	
32 11 16 16-0011	SY		12" Class II Crushed Aggregate Base Course .....	23.97	
			<i>For Up To 500, Add</i>	6.23	
			<i>For &gt;500 To 1,000, Add</i>	2.40	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.91	
			<i>For &gt;10,000, Deduct</i>	-1.56	

**32 11 23 Aggregate Base Courses** (32 11)

**32 11 23 16 Aggregate Base Courses** (32 11 23)

<b>32 11 23 16-0001</b>	<b>Base Courses For Sidewalk (Asphalt Or Concrete)</b> <small>(32 11 23 16)</small>				
			Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 11 23 16-0002	SF		2" Crushed Aggregate Base Course For Sidewalks .....	0.49	
			<i>For Up To 1,000, Add</i>	0.14	
			<i>For &gt;1,000 To 2,500, Add</i>	0.05	
32 11 23 16-0003	SF		3" Crushed Aggregate Base Course For Sidewalks .....	0.69	
			<i>For Up To 1,000, Add</i>	0.19	
			<i>For &gt;1,000 To 2,500, Add</i>	0.07	
32 11 23 16-0004	SF		4" Crushed Aggregate Base Course For Sidewalks .....	0.91	
			<i>For Up To 1,000, Add</i>	0.25	
			<i>For &gt;1,000 To 2,500, Add</i>	0.09	
32 11 23 16-0005	SF		5" Crushed Aggregate Base Course For Sidewalks .....	1.16	
			<i>For Up To 1,000, Add</i>	0.32	
			<i>For &gt;1,000 To 2,500, Add</i>	0.12	
32 11 23 16-0006	SF		6" Crushed Aggregate Base Course For Sidewalks .....	1.43	
			<i>For Up To 1,000, Add</i>	0.40	
			<i>For &gt;1,000 To 2,500, Add</i>	0.14	
32 11 23 16-0007	SF		7" Crushed Aggregate Base Course For Sidewalks .....	1.64	
			<i>For Up To 1,000, Add</i>	0.46	
			<i>For &gt;1,000 To 2,500, Add</i>	0.16	
32 11 23 16-0008	SF		8" Crushed Aggregate Base Course For Sidewalks .....	1.87	
			<i>For Up To 1,000, Add</i>	0.52	
			<i>For &gt;1,000 To 2,500, Add</i>	0.19	

**32 11 26 Asphaltic Base Courses** (32 11)

**32 11 26 19 Bituminous-Stabilized Base Courses** (32 11 26)

<b>32 11 26 19-0001</b>	<b>Bituminous-Stabilized Base Courses</b> <small>(32 11 26 19)</small>				
32 11 26 19-0002	CY		Bituminous Stabilized Base Course .....	93.49	
			Note: 3/4" ASTM C33.		

**32 12 Flexible Paving** (32 10)

**32 12 13 Preparatory Coats** (32 12)

**32 12 13 13 Tack Coats** (32 12 13)

32 12 13 13-0001	TON		Tack Coat (Monterey County) .....	1,240.79	
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**32 12 13 19 Prime Coats** (32 12 13)

32 12 13 19-0001	SY		Surface Prime Coat, 0.26 Gallon/SY .....	1.40	
			<i>For Up To 150, Add</i>	0.32	
			<i>For &gt;150 To 300, Add</i>	0.14	
			<i>For &gt;300 To 500, Add</i>	0.07	
			<i>For &gt;3,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000, Deduct</i>	-0.10	

<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 12</b>	<b>Flexible Paving</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY.....	1.48	
For Up To 150, Add	0.34	
For >150 To 300, Add	0.15	
For >300 To 500, Add	0.07	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.10	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY.....	1.56	
For Up To 150, Add	0.36	
For >150 To 300, Add	0.16	
For >300 To 500, Add	0.08	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.11	
<b>32 12 16 Asphalt Paving (32 12)</b>		
<b>32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)</b>		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.		
<b>32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)</b>		
Note: Meets Caltrans requirements.		
32 12 16 13-0002 TON Bituminous Hot Mix Intermediate Course 3,954 LB/CY.....	128.12	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	15.73	
For Up To 25, Add	16.99	
For >25 To 50, Add	9.31	
For >500 To 1,000, Deduct	-5.63	
For >1,000 To 2,500, Deduct	-10.22	
For >2,500 To 5,000, Deduct	-15.85	
For >5,000, Deduct	-22.72	
32 12 16 13-0003 SY 1" Thick Bituminous Hot Mix Binder Course.....	7.22	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.86	
For Up To 1,000, Add	0.98	
For >1,000 To 2,000, Add	0.54	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000 To 50,000, Deduct	-0.58	
For >50,000 To 100,000, Deduct	-0.89	
For >100,000, Deduct	-1.28	
32 12 16 13-0004 SY 1-1/2" Thick Bituminous Hot Mix Binder Course.....	10.75	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.30	
For Up To 700, Add	1.45	
For >700 To 1,400, Add	0.80	
For >7,000 To 14,000, Deduct	-0.47	
For >14,000 To 32,000, Deduct	-0.86	
For >32,000 To 64,000, Deduct	-1.34	
For >64,000, Deduct	-1.92	
32 12 16 13-0005 SY 2" Thick Bituminous Hot Mix Binder Course.....	13.95	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.73	
For Up To 500, Add	1.83	
For >500 To 1,000, Add	1.00	
For >5,000 To 10,000, Deduct	-0.62	
For >10,000 To 24,000, Deduct	-1.13	
For >24,000 To 48,000, Deduct	-1.76	
For >48,000, Deduct	-2.52	
32 12 16 13-0006 SY 2-1/2" Thick Bituminous Hot Mix Binder Course.....	17.59	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.16	
For Up To 400, Add	2.33	
For >400 To 800, Add	1.28	
For >4,000 To 8,000, Deduct	-0.78	
For >8,000 To 20,000, Deduct	-1.42	
For >20,000 To 40,000, Deduct	-2.21	
For >40,000, Deduct	-3.17	
32 12 16 13-0007 SY 3" Thick Bituminous Hot Mix Binder Course.....	21.10	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.59	
For Up To 340, Add	2.80	
For >340 To 680, Add	2.40	
For >3,400 To 6,800, Deduct	-0.94	
For >6,800 To 17,000, Deduct	-1.71	
For >17,000 To 34,000, Deduct	-2.65	
For >34,000, Deduct	-3.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0008 SY 3-1/2" Thick Bituminous Hot Mix Binder Course .....	24.63	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.02	
For Up To 280, Add	3.27	
For >280 To 560, Add	1.79	
For >2,800 To 5,600, Deduct	-1.10	
For >5,600 To 14,000, Deduct	-1.99	
For >14,000 To 28,000, Deduct	-3.09	
For >28,000, Deduct	-4.43	
32 12 16 13-0009 SY 4" Thick Bituminous Hot Mix Binder Course .....	28.14	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.46	
For Up To 250, Add	3.73	
For >250 To 500, Add	2.04	
For >2,500 To 5,000, Deduct	-1.25	
For >5,000 To 12,000, Deduct	-2.28	
For >12,000 To 24,000, Deduct	-3.53	
For >24,000, Deduct	-5.07	
32 12 16 13-0010 SY 5" Thick Bituminous Hot Mix Binder Course .....	35.17	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	4.32	
For Up To 200, Add	4.66	
For >200 To 400, Add	2.55	
For >2,000 To 4,000, Deduct	-1.57	
For >4,000 To 10,000, Deduct	-2.85	
For >10,000 To 20,000, Deduct	-4.41	
For >20,000, Deduct	-6.33	
32 12 16 13-0011 SY 6" Thick Bituminous Hot Mix Binder Course .....	42.22	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	5.18	
For Up To 160, Add	5.60	
For >160 To 320, Add	3.07	
For >1,600 To 3,200, Deduct	-1.88	
For >3,200 To 6,000, Deduct	-3.42	
For >8,000 To 16,000, Deduct	-5.30	
For >16,000, Deduct	-7.60	
<b>32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small></b>		
Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY .....	129.13	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	2.50	
For Up To 25, Add	18.14	
For >25 To 50, Add	10.09	
For >500 To 1,000, Deduct	-5.49	
For >1,000 To 2,500, Deduct	-9.98	
For >2,500 To 5,000, Deduct	-15.47	
For >5,000, Deduct	-22.20	
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR).....	142.98	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Up To 25, Add	20.39	
For >25 To 50, Add	11.38	
For >500 To 1,000, Deduct	-6.02	
For Warm Mix Additive, Add	7.09	
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course .....	152.99	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Up To 25, Add	21.40	
For >25 To 50, Add	11.88	
For >500 To 1,000, Deduct	-6.52	
For >1,000 To 2,500, Deduct	-11.85	
For >2,500 To 5,000, Deduct	-18.37	
For >5,000, Deduct	-26.37	
For Warm Mix Additive, Add	7.74	
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Course.....	7.00	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.13	
For Up To 1,000, Add	1.02	
For >1,000 To 2,000, Add	0.57	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000 To 50,000, Deduct	-0.54	
For >50,000 To 100,000, Deduct	-0.84	
For >100,000, Deduct	-1.21	
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Course .....	10.39	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.20	
For Up To 700, Add	1.49	
For >700 To 1,400, Add	0.83	
For >7,000 To 14,000, Deduct	-0.44	
For >14,000 To 32,000, Deduct	-0.81	
For >32,000 To 64,000, Deduct	-1.25	
For >64,000, Deduct	-1.80	

<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 12</b>	<b>Flexible Paving</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Course.....	13.39	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.26	
For Up To 500, Add	1.86	
For >500 To 1,000, Add	1.03	
For >5,000 To 10,000, Deduct	-0.58	
For >10,000 To 24,000, Deduct	-1.06	
For >24,000 To 48,000, Deduct	-1.64	
For >48,000, Deduct	-2.36	
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Course .....	16.93	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.33	
For Up To 400, Add	2.38	
For >400 To 800, Add	1.32	
For >4,000 To 8,000, Deduct	-0.73	
For >8,000 To 20,000, Deduct	-1.33	
For >20,000 To 40,000, Deduct	-2.07	
For >40,000, Deduct	-2.97	
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Course.....	20.31	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.39	
For Up To 340, Add	2.85	
For >340 To 680, Add	2.37	
For >3,400 To 6,800, Deduct	-0.88	
For >6,800 To 17,000, Deduct	-1.60	
For >17,000 To 34,000, Deduct	-2.48	
For >34,000, Deduct	-3.56	
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	57.88	
<b>32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)</b>		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 LB/CY .....	294.47	
Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
<b>32 12 16 19 Cold-Mix Asphalt Paving (32 12 16)</b>		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
<b>32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19)</b>		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course .....	11.34	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course .....	11.08	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course.....	18.35	
<b>32 12 16 39 Paving Fabrics (32 12 16)</b>		
See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 SY 3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O) .....	0.92	
For Up To 50, Add	0.22	
For >50 To 150, Add	0.16	
For >150 To 250, Add	0.10	
For >250 To 500, Add	0.05	
32 12 16 39-0002 SY 4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	0.99	
For Up To 50, Add	0.23	
For >50 To 150, Add	0.17	
For >150 To 250, Add	0.11	
For >250 To 500, Add	0.06	
<b>32 12 16 43 Waterproofing Membranes (32 12 16)</b>		
<b>32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)</b>		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane.....	29.99	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane .....	22.58	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane .....	14.17	
<b>32 12 33 Flexible Paving Surface Treatments (32 12)</b>		
<b>32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33)</b>		
Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway .....	2.66	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	4.78	
<b>32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33)</b>		
Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails.....	1.87	
<b>32 12 36 Seal Coats (32 12)</b>		
See CSI section 32 01 13 62-0000 for slurry seal.		
<b>32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)</b>		





		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>
		<b>Flexible Paving</b>	<b>32 12</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County)</b> <small>(32 12 36 13)</small>		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,155.19	
<b>32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13)</small>		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
<b>32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0003)</small>		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.57	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.43	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0007 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.32	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0008 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.20	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0009 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.12	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0010 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.07	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0011 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.00	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
32 12 36 13-0012 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.98	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.21</i>	
<b>32 12 36 13-0013 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0003)</small>		
Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0014 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.09	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0015 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.91	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0016 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.76	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0017 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.71	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0018 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.51	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0019 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.39	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0020 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.31	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
32 12 36 13-0021 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.27	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.26</i>	
<b>32 12 36 13-0022 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0003)</small>		
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0023 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.51	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0024 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.27	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0025 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.10	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0026 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.89	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0027 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.78	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0028 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.61	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0029 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.50	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
32 12 36 13-0030 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.46	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.30</i>	
<b>32 12 36 13-0031 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0003)</small>		
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0032 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.57	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.35</i>	
32 12 36 13-0033 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.33	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.35</i>	
32 12 36 13-0034 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.16	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.35</i>	
32 12 36 13-0035 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.96	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.35</i>	
32 12 36 13-0036 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.84	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.35</i>	

<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 12</b>	<b>Flexible Paving</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0037	SY		>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) .....	2.73	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.35	
32 12 36 13-0038	SY		>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) .....	2.56	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.35	
32 12 36 13-0039	SY		>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.53	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.35	
<b>32 12 36 13-0040</b>			<b>Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <sup>(32)</sup>		
			<sup>12 36 13-0003</sup> Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0041	SY		Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.58	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0042	SY		>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.20	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0043	SY		>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.91	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0044	SY		>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.58	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0045	SY		>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.40	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0046	SY		>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.17	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0047	SY		>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.00	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
32 12 36 13-0048	SY		>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.93	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.51	
<b>32 12 36 13-0049</b>			<b>Sand Sealer</b> <sup>(32 12 36 13)</sup>		
			Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0050	SY		Up To 200 SY, Sand Seal .....	1.94	
32 12 36 13-0051	SY		>200 To 500 SY, Sand Seal.....	1.24	
32 12 36 13-0052	SY		>500 To 1,000 SY, Sand Seal.....	1.22	
32 12 36 13-0053	SY		>1,000 To 5,000 SY, Sand Seal.....	1.06	
32 12 36 13-0054	SY		>5,000 To 10,000 SY, Sand Seal.....	0.98	
32 12 36 13-0055	SY		>10,000 To 20,000 SY, Sand Seal.....	0.90	
32 12 36 13-0056	SY		>20,000 To 50,000 SY, Sand Seal.....	0.84	
32 12 36 13-0057	SY		>50,000 SY, Sand Seal.....	0.83	
<b>32 12 36 16</b>			<b>Coal Tar Seal Coats</b> <sup>(32 12 36)</sup>		
<b>32 12 36 16-0001</b>			<b>Thermoplastic Coal-Tar Asphalt Seal</b> <sup>(32 12 36 16)</sup>		
			Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002	SY		Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	7.14	
32 12 36 16-0003	SY		>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	6.61	
32 12 36 16-0004	SY		>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	5.77	
32 12 36 16-0005	SY		>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	5.09	
32 12 36 16-0006	SY		>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	4.25	
32 12 36 16-0007	SY		>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal .....	3.42	
32 12 36 16-0008	SY		Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	8.39	
32 12 36 16-0009	SY		>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	7.81	
32 12 36 16-0010	SY		>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	6.85	
32 12 36 16-0011	SY		>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	6.08	
32 12 36 16-0012	SY		>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	5.11	
32 12 36 16-0013	SY		>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal .....	4.15	
<b>32 12 43</b>			<b>Porous Flexible Paving</b> <sup>(32 12)</sup>		
<b>32 12 43 00-0001</b>			<b>Flexible Recycled Plastic Porous Grid</b> <sup>(32 12 43)</sup>		
			Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002	SY		1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	26.97	
			Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
			<i>For Up To 100, Add</i>	9.60	
			<i>For &gt;100 To 500, Add</i>	2.49	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-1.14	
			<i>For &gt;5,000, Deduct</i>	-2.18	
<b>32 12 73</b>			<b>Asphalt Paving Joint Sealants</b> <sup>(32 12)</sup>		
<b>32 12 73 00-0001</b>			<b>Expansion Joint In Sidewalk</b> <sup>(32 12 73)</sup>		
32 12 73 00-0002	LF		For Hot Asphalt Poured Over Expansion Joint In Sidewalk .....	3.88	

32 13 Rigid Paving <sup>(32 10)</sup>**32 13 13 Concrete Paving** <sup>(32 13)</sup>

Note: The following section includes spreading and placing delivered Portland cement concrete mix.



<b>Exterior Improvements</b>	<b>32</b>	
<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>	<b>32</b>
<b>Rigid Paving</b>	<b>32 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 13 13 33 Plain Concrete Paving (32 13 13)</b>		
<b>32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)</b>		
Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
<b>32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)</b>		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly .....	53.26	
For 2,500 PSI Concrete, Deduct	-3.37	
For 3,000 PSI Concrete, Deduct	-2.20	
For 3,500 PSI Concrete, Deduct	-1.76	
For 4,000 PSI Concrete, Deduct	-0.76	
For 5,000 PSI Concrete, Add	0.47	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	3.81	
For <12' Wide Pass, Add	8.92	
For 24' Or Greater Wide Pass, Deduct	-10.65	
For Air Entrainment, Add	1.46	
For Slipforming, Deduct	-5.33	
For Up To 100, Add	20.24	
For >100 To 250, Add	11.59	
For >250 To 500, Add	5.79	
For >1,000 To 2,000, Deduct	-1.46	
For >2,000 To 5,000, Deduct	-2.80	
For >5,000 To 10,000, Deduct	-4.13	
For >10,000 To 20,000, Deduct	-5.46	
For >20,000, Deduct	-6.79	
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly .....	63.40	
For 2,500 PSI Concrete, Deduct	-4.23	
For 3,000 PSI Concrete, Deduct	-2.76	
For 3,500 PSI Concrete, Deduct	-2.21	
For 4,000 PSI Concrete, Deduct	-0.96	
For 5,000 PSI Concrete, Add	0.59	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.78	
For <12' Wide Pass, Add	10.34	
For 24' Or Greater Wide Pass, Deduct	-12.68	
For Air Entrainment, Add	1.84	
For Slipforming, Deduct	-6.34	
For Up To 100, Add	23.34	
For >100 To 250, Add	13.51	
For >250 To 500, Add	6.75	
For >1,000 To 2,000, Deduct	-1.84	
For >2,000 To 5,000, Deduct	-3.42	
For >5,000 To 10,000, Deduct	-5.01	
For >10,000 To 20,000, Deduct	-6.59	
For >20,000, Deduct	-8.18	
32 13 13 33-0005 SY 6" 4,500 PSI Concrete Paving Assembly .....	67.63	
For 2,500 PSI Concrete, Deduct	-4.46	
For 3,000 PSI Concrete, Deduct	-2.91	
For 3,500 PSI Concrete, Deduct	-2.33	
For 4,000 PSI Concrete, Deduct	-1.01	
For 5,000 PSI Concrete, Add	0.62	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.04	
For <12' Wide Pass, Add	11.09	
For 24' Or Greater Wide Pass, Deduct	-13.53	
For Air Entrainment, Add	1.94	
For Slipforming, Deduct	-6.76	
For Up To 100, Add	25.07	
For >100 To 250, Add	14.47	
For >250 To 500, Add	7.24	
For >1,000 To 2,000, Deduct	-1.94	
For >2,000 To 5,000, Deduct	-3.63	
For >5,000 To 10,000, Deduct	-5.32	
For >10,000 To 20,000, Deduct	-7.01	
For >20,000, Deduct	-8.70	
32 13 13 33-0006 SY 7" 4,500 PSI Concrete Paving Assembly .....	80.86	
For 2,500 PSI Concrete, Deduct	-5.62	
For 3,000 PSI Concrete, Deduct	-3.67	
For 3,500 PSI Concrete, Deduct	-2.93	
For 4,000 PSI Concrete, Deduct	-1.27	
For 5,000 PSI Concrete, Add	0.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.36	
For <12' Wide Pass, Add	12.88	
For 24' Or Greater Wide Pass, Deduct	-16.17	
For Air Entrainment, Add	2.44	
For Slipforming, Deduct	-8.09	
For Up To 100, Add	28.96	
For >100 To 250, Add	16.92	
For >250 To 500, Add	8.46	
For >1,000 To 2,000, Deduct	-2.44	
For >2,000 To 5,000, Deduct	-4.47	
For >5,000 To 10,000, Deduct	-6.49	
For >10,000 To 20,000, Deduct	-8.51	
For >20,000, Deduct	-10.53	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13	33-0007	SY	8" 4,500 PSI Concrete Paving Assembly .....	92.02	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.17	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.02	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.22	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.40	
			<i>For 5,000 PSI Concrete, Add</i>	0.86	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	6.98	
			<i>For &lt;12' Wide Pass, Add</i>	14.96	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-18.40	
			<i>For Air Entrainment, Add</i>	2.68	
			<i>For Slipforming, Deduct</i>	-9.20	
			<i>For Up To 100, Add</i>	33.75	
			<i>For &gt;100 To 250, Add</i>	19.56	
			<i>For &gt;250 To 500, Add</i>	9.78	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-2.68	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-4.98	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-7.28	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-9.58	
			<i>For &gt;20,000, Deduct</i>	-11.89	
32 13 13	33-0008	SY	9" 4,500 PSI Concrete Paving Assembly .....	104.37	
			<i>For 2,500 PSI Concrete, Deduct</i>	-7.13	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.65	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.72	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.61	
			<i>For 5,000 PSI Concrete, Add</i>	0.99	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.06	
			<i>For &lt;12' Wide Pass, Add</i>	16.79	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-20.87	
			<i>For Air Entrainment, Add</i>	3.10	
			<i>For Slipforming, Deduct</i>	-10.44	
			<i>For Up To 100, Add</i>	37.82	
			<i>For &gt;100 To 250, Add</i>	22.01	
			<i>For &gt;250 To 500, Add</i>	11.00	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-3.10	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-5.71	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-8.32	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-10.93	
			<i>For &gt;20,000, Deduct</i>	-13.54	
32 13 13	33-0009	SY	10" 4,500 PSI Concrete Paving Assembly .....	116.16	
			<i>For 2,500 PSI Concrete, Deduct</i>	-7.84	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.12	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.09	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.77	
			<i>For 5,000 PSI Concrete, Add</i>	1.09	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.87	
			<i>For &lt;12' Wide Pass, Add</i>	18.81	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-23.23	
			<i>For Air Entrainment, Add</i>	3.41	
			<i>For Slipforming, Deduct</i>	-11.62	
			<i>For Up To 100, Add</i>	42.41	
			<i>For &gt;100 To 250, Add</i>	24.62	
			<i>For &gt;250 To 500, Add</i>	12.31	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-3.41	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-6.31	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-9.22	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-12.12	
			<i>For &gt;20,000, Deduct</i>	-15.03	
32 13 13	33-0010	SY	12" 4,500 PSI Concrete Paving Assembly .....	138.31	
			<i>For 2,500 PSI Concrete, Deduct</i>	-9.29	
			<i>For 3,000 PSI Concrete, Deduct</i>	-6.06	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.85	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.10	
			<i>For 5,000 PSI Concrete, Add</i>	1.29	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	10.50	
			<i>For &lt;12' Wide Pass, Add</i>	22.46	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-27.66	
			<i>For Air Entrainment, Add</i>	4.04	
			<i>For Slipforming, Deduct</i>	-13.83	
			<i>For Up To 100, Add</i>	50.68	
			<i>For &gt;100 To 250, Add</i>	29.38	
			<i>For &gt;250 To 500, Add</i>	14.69	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-4.04	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-7.50	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-10.95	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-14.41	
			<i>For &gt;20,000, Deduct</i>	-17.87	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>
		<b>Rigid Paving</b>	<b>32 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly .....	175.56	
For 2,500 PSI Concrete, Deduct	-11.41	
For 3,000 PSI Concrete, Deduct	-7.44	
For 3,500 PSI Concrete, Deduct	-5.95	
For 4,000 PSI Concrete, Deduct	-2.58	
For 5,000 PSI Concrete, Add	1.59	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.89	
For <12' Wide Pass, Add	29.01	
For 24' Or Greater Wide Pass, Deduct	-35.11	
For Air Entrainment, Add	4.96	
For Slipforming, Deduct	-17.56	
For Up To 100, Add	65.66	
For >100 To 250, Add	37.79	
For >250 To 500, Add	18.89	
For >1,000 To 2,000, Deduct	-4.96	
For >2,000 To 5,000, Deduct	-9.35	
For >5,000 To 10,000, Deduct	-13.74	
For >10,000 To 20,000, Deduct	-18.13	
For >20,000, Deduct	-22.52	
<b>32 13 16 Decorative Concrete Paving (32 13)</b>		
<b>32 13 16 13 Patterned Concrete Paving (32 13 16)</b>		
See CSI section 32 17 26 00-0000 for tactile warning surfaces.		
32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk .....	4.22	
<b>32 13 43 Pervious Concrete Paving (32 13)</b>		
<b>32 13 43 00-0001 Pervious Concrete Assembly (32 13 43)</b>		
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick Pervious Concrete Paving .....	12.76	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.40	
For >30,000 To 100,000, Deduct	-2.62	
For >100,000, Deduct	-3.25	
32 13 43 00-0003 SF 9" Thick Pervious Concrete Paving .....	15.94	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.71	
For >30,000 To 100,000, Deduct	-3.14	
For >100,000, Deduct	-3.90	
<b>32 13 73 Concrete Paving Joint Sealants (32 13)</b>		
<b>32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)</b>		
<b>32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)</b>		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 LF Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads .....	7.52	
<b>32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)</b>		
<b>32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)</b>		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002 LF Joint Sealing, Concrete Pavement Preformed Elastomeric .....	11.35	
<b>32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)</b>		
<b>32 13 73 19-0001 Silicone Joint Sealant For Concrete Pavement (32 13 73 19)</b>		
Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002 LF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	8.71	2.09
32 13 73 19-0003 LF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	9.06	2.12
32 13 73 19-0004 LF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	9.45	2.16
32 13 73 19-0005 LF 3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	10.65	2.21
32 13 73 19-0006 LF 1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	12.06	2.26
32 13 73 19-0007 LF 1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	14.09	2.30
32 13 73 19-0008 LF 2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	17.50	2.35
<b>32 14 Unit Paving (32 10)</b>		
<b>32 14 09 Paver Restraints (32 14)</b>		
<b>32 14 09 00-0001 Paver Restraints (32 14 09)</b>		
Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		



<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 14</b>	<b>Unit Paving</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 09 00-0002 LF Up To 2" Height, Vinyl Paver Restraint .....	3.38	0.93
For >1,000 To 2,000, Deduct	-0.42	
For >2,000 To 4,000, Deduct	-0.60	
For >4,000, Deduct	-0.77	
32 14 09 00-0003 LF Up To 2" Height, Galvanized Steel Paver Restraint .....	3.63	0.93
For >500 To 1,000, Deduct	-0.11	
For >1,000 To 2,000, Deduct	-0.21	
For >2,000, Deduct	-0.32	
32 14 09 00-0004 LF Up To 1" Height, Aluminum Paver Restraint .....	3.51	0.93
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 1,500, Deduct	-0.51	
32 14 09 00-0005 LF >1" To 2" Height, Aluminum Paver Restraint .....	4.07	0.93
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.39	
For >1,000 To 1,500, Deduct	-0.65	
32 14 09 00-0006 LF >2" To 3" Height, Aluminum Paver Restraint .....	5.16	0.93
For >250 To 500, Deduct	-0.37	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 1,500, Deduct	-0.92	
32 14 09 00-0007 LF >3" To 4" Height, Aluminum Paver Restraint .....	5.99	0.93
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.68	
For >1,000 To 1,500, Deduct	-1.13	

### 32 14 11 Bedding For Unit Paving (32 14)

#### 32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 14 11 00-0002 SF 1" To 2" Sand Bedding, Screeded .....	1.00	
For Up To 100, Add	0.43	
For >100 To 500, Add	0.12	
For >1,000 To 5,000, Deduct	-0.07	
For >5,000, Deduct	-0.12	
32 14 11 00-0003 SF 1" To 2" Stone Dust Bedding, Screeded .....	1.22	
For Up To 100, Add	0.49	
For >100 To 500, Add	0.13	
For >1,000 To 5,000, Deduct	-0.07	
For >5,000, Deduct	-0.12	
32 14 11 00-0004 SF 3" Stone Dust Bedding, Screeded .....	1.60	
For Up To 100, Add	0.62	
For >100 To 500, Add	0.17	
For >1,000 To 5,000, Deduct	-0.09	
For >5,000, Deduct	-0.15	
32 14 11 00-0005 SF 4" Stone Dust Bedding, Screeded .....	2.03	
For Up To 100, Add	0.77	
For >100 To 500, Add	0.21	
For >1,000 To 5,000, Deduct	-0.10	
For >5,000, Deduct	-0.19	
32 14 11 00-0006 SF 1" Mortar Bedding .....	2.99	
For Up To 100, Add	1.34	
For >100 To 500, Add	0.39	
For >1,000 To 5,000, Deduct	-0.24	
For >5,000, Deduct	-0.38	
32 14 11 00-0007 SF 2" Mortar Bedding .....	4.40	
For Up To 100, Add	1.89	
For >100 To 500, Add	0.54	
For >1,000 To 5,000, Deduct	-0.32	
For >5,000, Deduct	-0.51	
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar .....	1.55	
For Up To 100, Add	0.71	
For >100 To 500, Add	0.20	
For >1,000 To 5,000, Deduct	-0.13	
For >5,000, Deduct	-0.20	

### 32 14 13 Precast Concrete Unit Paving (32 14)

#### 32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)

#### 32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)

Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 13 16-0002 SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver .....	10.92	2.96
Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.04	
For 3-1/8" Concrete Paver, Add	1.69	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.84	
For Up To 100, Add	4.22	
For >100 To 500, Add	1.14	
For >1,000 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-1.04	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>
		<b>Unit Paving</b>	<b>32 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0003 SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver.....	10.38	2.71
Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0004 SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver.....	9.89	2.15
Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0005 SF 2-3/8" Thick, >144 SI Precast Concrete Paver.....	9.45	2.24
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0006 SF 2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns.....	10.13	2.58
Note: Patterns made by combining pavers from two or more size groups.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
<b>32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)</b>		
32 14 13 19-0001 Turf Block (32 14 13 19)		
Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002 SF 3-1/8" Thick, Precast Concrete Turf Block .....	8.98	2.58
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
<b>32 14 16 Brick Unit Paving (32 14)</b>		
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16)		
Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002 SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat .....	10.98	2.96
For 1-3/8" Thick Paver, Deduct		
For 2-3/4" Thick Paver (Vehicular), Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge.....	15.71	3.39
For 1-3/8" Thick Paver, Deduct		
For 2-3/4" Thick Paver (Vehicular), Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
<b>32 14 33 Plastic Paving (32 14)</b>		
<b>32 14 33 13 Permeable Plastic Paving (32 14 33)</b>		
32 14 33 13-0001 Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002 SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block.....	12.74	2.58
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
<b>32 14 40 Stone Paving (32 14)</b>		

**32 Exterior Improvements**  
**32 10 Bases, Ballasts, And Paving**  
**32 14 Unit Paving**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 14 40 00-0001	<b>Slate Paver Sidewalk</b> <small>(32 14 40)</small> Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF 1" Thick, Up to 54 SI Slate Paver ..... Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.19 1.01 -7.80 -5.46 5.03 1.25 -0.49 -1.05	2.47
32 14 40 00-0003	SF 1" Thick, >54 to 108 SI Slate Paver ..... Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.75 0.96 -7.69 -5.40 4.81 1.19 -0.45 -0.98	2.24
32 14 40 00-0004	SF 1" Thick, >108 to 216 SI Slate Paver ..... Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	13.96 0.88 -7.50 -5.28 4.41 1.07 -0.37 -0.86	1.85
32 14 40 00-0005	SF 1" Thick, >216 SI Slate Paver ..... Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	13.63 0.85 -7.41 -5.23 4.25 1.02 -0.34 -0.81	1.68
32 14 40 00-0006	SF 1" Thick, Slate Paver, Combinations And Patterns ..... Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.31 0.92 -7.58 -5.33 4.59 1.12 -0.40 -0.91	2.03
32 14 40 00-0007	<b>Granite Paver Sidewalk</b> <small>(32 14 40)</small> Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008	SF 1" Thick, Up to 54 SI Granite Paver ..... Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	22.22 1.36 1.11 2.22 2.47 6.79 1.60 -0.49 -1.26	2.47
32 14 40 00-0009	SF 1" Thick, >54 to 108 SI Granite Paver ..... Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	21.78 1.31 1.09 2.18 2.40 6.57 1.54 -0.45 -1.19	2.24
32 14 40 00-0010	SF 1" Thick, >108 to 216 SI Granite Paver ..... Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	20.99 1.23 1.05 2.10 2.28 6.17 1.42 -0.37 -1.07	1.85



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>
		Unit Paving	32 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0011	SF		1" Thick, >216 SI Granite Paver..... Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 500, Add</i> <i>For &gt;1,000 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i>	20.66 1.20 1.03 2.07 2.23 6.01 1.37 -0.34 -1.02	1.68
32 14 40 00-0012	SF		1" Thick, Granite Paver, Combinations And Patterns..... Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 500, Add</i> <i>For &gt;1,000 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i>	21.34 1.27 1.07 2.13 2.34 6.35 1.47 -0.40 -1.13	2.03
32 14 40 00-0013			<b>Cobble Stone</b> <small>(32 14 40)</small> Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.		
32 14 40 00-0014	SF		4" to 8" diameter cobble stones, various colors, Up To 500 SF .....	24.03	
32 14 40 00-0015	SF		4" to 8" diameter cobble stones, various colors, > 500 SF .....	18.79	
32 15			<b>Aggregate Surfacing</b> <small>(32 10)</small>		
32 15 40			<b>Crushed Stone Surfacing</b> <small>(32 15)</small> Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 15 40 00-0001			<b>Gravel Surfacing And Spreading</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002	CY		Gravel Surfacing And Spreading.....	71.49	
32 15 40 00-0003			<b>Limestone Screenings</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004	CY		Limestone Screenings For Trail .....	67.18	
32 15 40 00-0005			<b>Decomposed Granite</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway..... Note: Placed in 2 lifts. <i>For Additional 2" Lift</i> <i>For &gt;45 To 180, Deduct</i> <i>For &gt;180 To 450, Deduct</i> <i>For &gt;450, Deduct</i>	12.40 6.20 -0.87 -1.11 -1.36	
32 16			<b>Curbs, Gutters, Sidewalks, And Driveways</b> <small>(32 10)</small>		
32 16 13			<b>Curbs And Gutters</b> <small>(32 16)</small> Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.		
32 16 13 13			<b>Cast-In-Place Concrete Curbs And Gutters</b> <small>(32 16 13)</small> Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0001			<b>Cast In Place Concrete Curbs</b> <small>(32 16 13 13)</small> Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0002	LF		"B3" Cast In Place Concrete Curb.....	10.18	9.14
32 16 13 13-0003	LF		"B3" Cast In Place Concrete Curb - Radius .....	11.59	10.51
32 16 13 13-0004	LF		"B1" Cast In Place Concrete Curb.....	23.33	9.14
32 16 13 13-0005	LF		"B1" Cast In Place Concrete Curb - Radius .....	26.70	10.06
32 16 13 13-0006	LF		"A1-150" Cast In Place Concrete Curb .....	22.74	9.14
32 16 13 13-0007	LF		"A1-150" Cast In Place Concrete Curb - Radius .....	26.03	10.06
32 16 13 13-0008	LF		"A1-200" Cast In Place Concrete Curb .....	23.58	9.14
32 16 13 13-0009	LF		"A1-200" Cast In Place Concrete Curb - Radius.....	26.99	10.06
32 16 13 13-0010	LF		6" x 12" Cast In Place Concrete Curb (Type A1-6) .....	17.93	9.14
			<i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 100, Add</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i>	10.90 6.18 2.36 -2.36 -3.99	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0011	LF		6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6).....	20.55	10.51
			<i>For Up To 20, Add</i>	12.57	
			<i>For &gt;20 To 50, Add</i>	7.13	
			<i>For &gt;50 To 100, Add</i>	2.72	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.72	
			<i>For &gt;1,000, Deduct</i>	-4.59	
32 16 13 13-0012	LF		6" x 14" Cast In Place Concrete Curb (Type A1-8).....	19.72	9.14
			<i>For Up To 20, Add</i>	11.94	
			<i>For &gt;20 To 50, Add</i>	6.77	
			<i>For &gt;50 To 100, Add</i>	2.59	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.59	
			<i>For &gt;1,000, Deduct</i>	-4.37	
32 16 13 13-0013	LF		6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8).....	22.61	10.51
			<i>For Up To 20, Add</i>	13.78	
			<i>For &gt;20 To 50, Add</i>	7.81	
			<i>For &gt;50 To 100, Add</i>	2.98	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.98	
			<i>For &gt;1,000, Deduct</i>	-5.04	
32 16 13 13-0014	LF		6" x 16" Cast In Place Concrete Curb.....	21.73	9.14
			<i>For Up To 20, Add</i>	13.03	
			<i>For &gt;20 To 50, Add</i>	7.38	
			<i>For &gt;50 To 100, Add</i>	2.82	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.82	
			<i>For &gt;1,000, Deduct</i>	-4.78	
32 16 13 13-0015	LF		6" x 16" Cast In Place Concrete Curb - Radius.....	24.82	13.71
			<i>For Up To 20, Add</i>	15.02	
			<i>For &gt;20 To 50, Add</i>	8.52	
			<i>For &gt;50 To 100, Add</i>	3.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.25	
			<i>For &gt;1,000, Deduct</i>	-5.50	
32 16 13 13-0016	LF		6" x 18" Cast In Place Concrete Curb.....	23.32	9.14
			<i>For Up To 20, Add</i>	13.90	
			<i>For &gt;20 To 50, Add</i>	7.87	
			<i>For &gt;50 To 100, Add</i>	3.01	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.01	
			<i>For &gt;1,000, Deduct</i>	-5.10	
32 16 13 13-0017	LF		6" x 18" Cast In Place Concrete Curb - Radius.....	26.35	10.51
			<i>For Up To 20, Add</i>	15.78	
			<i>For &gt;20 To 50, Add</i>	8.94	
			<i>For &gt;50 To 100, Add</i>	3.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.42	
			<i>For &gt;1,000, Deduct</i>	-5.79	
32 16 13 13-0018	LF		6" x 24" Cast In Place Concrete Curb.....	26.86	10.06
			<i>For Up To 20, Add</i>	15.53	
			<i>For &gt;20 To 50, Add</i>	8.78	
			<i>For &gt;50 To 100, Add</i>	3.38	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.38	
			<i>For &gt;1,000, Deduct</i>	-5.73	
32 16 13 13-0019	LF		6" x 24" Cast In Place Concrete Curb - Radius.....	30.04	11.42
			<i>For Up To 20, Add</i>	17.43	
			<i>For &gt;20 To 50, Add</i>	9.86	
			<i>For &gt;50 To 100, Add</i>	3.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.79	
			<i>For &gt;1,000, Deduct</i>	-6.43	
32 16 13 13-0020	LF		12" x 24" Cast In Place Concrete Curb.....	35.28	11.42
			<i>For Up To 20, Add</i>	18.48	
			<i>For &gt;20 To 50, Add</i>	10.38	
			<i>For &gt;50 To 100, Add</i>	4.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.05	
			<i>For &gt;1,000, Deduct</i>	-6.96	
32 16 13 13-0021	LF		12" x 24" Cast In Place Concrete Curb - Radius.....	39.26	12.80
			<i>For Up To 20, Add</i>	20.65	
			<i>For &gt;20 To 50, Add</i>	11.60	
			<i>For &gt;50 To 100, Add</i>	4.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.52	
			<i>For &gt;1,000, Deduct</i>	-7.76	
32 16 13 13-0022	EA		Additional Finish For Handicap Drop Section In Curb.....	68.56	
32 16 13 13-0023			<b>Cast In Place Concrete Curb And Gutter</b> <small>(32 16 13 13)</small>		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0024	LF		"A2-6 Modified" Concrete Curb And Gutter - Straight.....	25.72	10.87
			<i>For Up To 20, Add</i>	17.34	
			<i>For &gt;20 To 50, Add</i>	9.62	
			<i>For &gt;50 To 100, Add</i>	3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.19	
			<i>For &gt;1,000, Deduct</i>	-5.43	
			<i>For Rolled Curb And Gutter</i>	1.54	
32 16 13 13-0025	LF		"A2-6 Modified" Concrete Curb And Gutter - Radius.....	28.47	10.87
			<i>For Up To 20, Add</i>	19.17	
			<i>For &gt;20 To 50, Add</i>	10.63	
			<i>For &gt;50 To 100, Add</i>	4.27	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.51	
			<i>For &gt;1,000, Deduct</i>	-5.97	
			<i>For Rolled Curb And Gutter</i>	1.67	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0026 LF "A2-6" Concrete Curb And Gutter - Straight.....	34.03	14.49
For Up To 20, Add	23.32	
For >20 To 50, Add	13.11	
For >50 To 100, Add	5.10	
For >500 To 1,000, Deduct	-4.60	
For >1,000, Deduct	-7.75	
For Rolled Curb And Gutter	2.62	
32 16 13 13-0027 LF "A2-6" Concrete Curb And Gutter - Radius.....	43.82	16.31
For Up To 20, Add	29.55	
For >20 To 50, Add	16.41	
For >50 To 100, Add	6.57	
For >500 To 1,000, Deduct	-5.45	
For >1,000, Deduct	-9.27	
For Rolled Curb And Gutter	2.64	
32 16 13 13-0028 LF "B-2" Concrete Curb And Gutter - Straight.....	41.95	15.86
For Up To 20, Add	28.34	
For >20 To 50, Add	15.76	
For >50 To 100, Add	6.29	
For >500 To 1,000, Deduct	-5.27	
For >1,000, Deduct	-8.95	
For Rolled Curb And Gutter	2.61	
32 16 13 13-0029 LF "B-2" Concrete Curb And Gutter - Radius.....	43.40	15.86
For Up To 20, Add	29.21	
For >20 To 50, Add	16.19	
For >50 To 100, Add	6.51	
For >500 To 1,000, Deduct	-5.34	
For >1,000, Deduct	-9.10	
For Rolled Curb And Gutter	2.53	
32 16 13 13-0030 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	24.31	10.87
For Up To 20, Add	16.49	
For >20 To 50, Add	9.20	
For >50 To 100, Add	3.65	
For >500 To 1,000, Deduct	-3.12	
For >1,000, Deduct	-5.29	
For Rolled Curb And Gutter	1.61	
32 16 13 13-0031 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	26.51	14.49
For Up To 20, Add	17.99	
For >20 To 50, Add	10.04	
For >50 To 100, Add	3.98	
For >500 To 1,000, Deduct	-3.41	
For >1,000, Deduct	-5.78	
For Rolled Curb And Gutter	1.77	
32 16 13 13-0032 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	30.90	12.05
For Up To 20, Add	20.94	
For >20 To 50, Add	11.67	
For >50 To 100, Add	4.64	
For >500 To 1,000, Deduct	-3.95	
For >1,000, Deduct	-6.69	
For Rolled Curb And Gutter	2.02	
32 16 13 13-0033 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	34.14	13.41
For Up To 20, Add	23.16	
For >20 To 50, Add	12.92	
For >50 To 100, Add	5.12	
For >500 To 1,000, Deduct	-4.38	
For >1,000, Deduct	-7.42	
For Rolled Curb And Gutter	2.27	
32 16 13 13-0034 LF 6" x 24" Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	37.50	14.49
For Up To 20, Add	25.40	
For >20 To 50, Add	14.15	
For >50 To 100, Add	5.63	
For >500 To 1,000, Deduct	-4.77	
For >1,000, Deduct	-8.10	
For Rolled Curb And Gutter	2.43	
32 16 13 13-0035 LF 6" x 24" Concrete Gutter With 6" Curb And Face - Radius (Type A3-6).....	41.77	16.31
For Up To 20, Add	28.32	
For >20 To 50, Add	15.79	
For >50 To 100, Add	6.27	
For >500 To 1,000, Deduct	-5.35	
For >1,000, Deduct	-9.07	
For Rolled Curb And Gutter	2.76	
32 16 13 13-0036 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	44.56	17.21
For Up To 20, Add	30.18	
For >20 To 50, Add	16.81	
For >50 To 100, Add	6.68	
For >500 To 1,000, Deduct	-5.67	
For >1,000, Deduct	-9.62	
For Rolled Curb And Gutter	2.89	
32 16 13 13-0037 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	48.97	19.03
For Up To 20, Add	33.19	
For >20 To 50, Add	18.50	
For >50 To 100, Add	7.35	
For >500 To 1,000, Deduct	-6.25	
For >1,000, Deduct	-10.61	
For Rolled Curb And Gutter	3.21	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0038 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight .....	51.62	19.94
For Up To 20, Add	34.96	
For >20 To 50, Add	19.47	
For >50 To 100, Add	7.74	
For >500 To 1,000, Deduct	-6.57	
For >1,000, Deduct	-11.14	
For Rolled Curb And Gutter	3.34	
32 16 13 13-0039 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius .....	56.15	21.75
For Up To 20, Add	38.04	
For >20 To 50, Add	21.19	
For >50 To 100, Add	8.42	
For >500 To 1,000, Deduct	-7.16	
For >1,000, Deduct	-12.14	
For Rolled Curb And Gutter	3.65	
32 16 13 13-0040 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight .....	58.67	22.66
For Up To 20, Add	39.73	
For >20 To 50, Add	22.13	
For >50 To 100, Add	8.80	
For >500 To 1,000, Deduct	-7.46	
For >1,000, Deduct	-12.66	
For Rolled Curb And Gutter	3.79	
32 16 13 13-0041 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius .....	65.15	25.37
For Up To 20, Add	44.16	
For >20 To 50, Add	24.62	
For >50 To 100, Add	9.77	
For >500 To 1,000, Deduct	-8.33	
For >1,000, Deduct	-14.13	
For Rolled Curb And Gutter	4.28	
<b>32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)</b>		
Note: Includes delivered concrete, steel, expansion joints and finish.		
<b>32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)</b>		
Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0002 EA Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job) .....	1,206.55	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.		
32 16 13 14-0003 LF 6" x 12" Straight Concrete Curb, Machine Formed .....	11.86	
32 16 13 14-0004 LF 6" x 12" Curved Concrete Curb, Machine Formed .....	15.75	
32 16 13 14-0005 LF 6" x 18" Straight Concrete Curb, Machine Formed .....	15.72	
32 16 13 14-0006 LF 6" x 18" Curved Concrete Curb, Machine Formed .....	20.16	
<b>32 16 13 16 Steel Faced Curbs (32 16 13)</b>		
Note: Fabrication includes handicap and other curb access cuts.		
<b>32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)</b>		
Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	13.47	4.28
For Curved Section, Add	2.94	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	14.82	4.86
For Curved Section, Add	3.31	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	19.97	5.45
For Curved Section, Add	4.05	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	24.51	6.12
For Curved Section, Add	4.73	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	29.98	6.70
For Curved Section, Add	5.51	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	39.22	8.55
For Curved Section, Add	7.11	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center .....	45.22	11.08
For Curved Section, Add	8.66	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section .....	141.38	
32 16 13 16-0010 EA Pedestrian/Handicap Ramp, Complete .....	95.28	
<b>32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)</b>		
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
<b>32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)</b>		
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick .....	20.23	
For Up To 20, Add	9.04	
For >20 To 50, Add	5.02	
For >50 To 100, Add	2.01	
For >500 To 1,000, Deduct	-2.01	
For >1,000, Deduct	-3.52	
32 16 13 19-0003 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick .....	24.83	
For Up To 20, Add	10.98	
For >20 To 50, Add	6.09	
For >50 To 100, Add	2.44	
For >500 To 1,000, Deduct	-2.44	
For >1,000, Deduct	-4.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0004 LF 3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	29.37	
<i>For Up To 20, Add</i>	12.87	
<i>For &gt;20 To 50, Add</i>	7.14	
<i>For &gt;50 To 100, Add</i>	2.87	
<i>For &gt;500 To 1,000, Deduct</i>	-2.87	
<i>For &gt;1,000, Deduct</i>	-5.04	
32 16 13 19-0005 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	33.89	
<i>For Up To 20, Add</i>	14.76	
<i>For &gt;20 To 50, Add</i>	8.18	
<i>For &gt;50 To 100, Add</i>	3.29	
<i>For &gt;500 To 1,000, Deduct</i>	-3.29	
<i>For &gt;1,000, Deduct</i>	-5.78	
32 16 13 19-0006 LF 4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.45	
<i>For Up To 20, Add</i>	16.67	
<i>For &gt;20 To 50, Add</i>	9.23	
<i>For &gt;50 To 100, Add</i>	3.72	
<i>For &gt;500 To 1,000, Deduct</i>	-3.72	
<i>For &gt;1,000, Deduct</i>	-6.54	
32 16 13 19-0007 LF 5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	45.82	
<i>For Up To 20, Add</i>	19.26	
<i>For &gt;20 To 50, Add</i>	10.64	
<i>For &gt;50 To 100, Add</i>	4.31	
<i>For &gt;500 To 1,000, Deduct</i>	-4.31	
<i>For &gt;1,000, Deduct</i>	-7.61	
32 16 13 19-0008 LF 6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	52.91	
<i>For Up To 20, Add</i>	21.67	
<i>For &gt;20 To 50, Add</i>	11.94	
<i>For &gt;50 To 100, Add</i>	4.86	
<i>For &gt;500 To 1,000, Deduct</i>	-4.86	
<i>For &gt;1,000, Deduct</i>	-8.62	
32 16 13 19-0009 SF >6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	8.81	
<i>For Up To 100, Add</i>	3.61	
<i>For &gt;100 To 250, Add</i>	1.99	
<i>For &gt;250 To 500, Add</i>	0.81	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.81	
<i>For &gt;5,000, Deduct</i>	-1.43	
32 16 13 19-0010 LF 2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	22.30	
<i>For Up To 20, Add</i>	9.72	
<i>For &gt;20 To 50, Add</i>	5.38	
<i>For &gt;50 To 100, Add</i>	2.17	
<i>For &gt;500 To 1,000, Deduct</i>	-2.17	
<i>For &gt;1,000, Deduct</i>	-3.81	
32 16 13 19-0011 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	27.57	
<i>For Up To 20, Add</i>	11.93	
<i>For &gt;20 To 50, Add</i>	6.61	
<i>For &gt;50 To 100, Add</i>	2.66	
<i>For &gt;500 To 1,000, Deduct</i>	-2.66	
<i>For &gt;1,000, Deduct</i>	-4.68	
32 16 13 19-0012 LF 3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	32.46	
<i>For Up To 20, Add</i>	13.88	
<i>For &gt;20 To 50, Add</i>	7.68	
<i>For &gt;50 To 100, Add</i>	3.10	
<i>For &gt;500 To 1,000, Deduct</i>	-3.10	
<i>For &gt;1,000, Deduct</i>	-5.46	
32 16 13 19-0013 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	37.49	
<i>For Up To 20, Add</i>	15.92	
<i>For &gt;20 To 50, Add</i>	8.80	
<i>For &gt;50 To 100, Add</i>	3.56	
<i>For &gt;500 To 1,000, Deduct</i>	-3.56	
<i>For &gt;1,000, Deduct</i>	-6.28	
32 16 13 19-0014 LF 4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	42.52	
<i>For Up To 20, Add</i>	17.97	
<i>For &gt;20 To 50, Add</i>	9.93	
<i>For &gt;50 To 100, Add</i>	4.02	
<i>For &gt;500 To 1,000, Deduct</i>	-4.02	
<i>For &gt;1,000, Deduct</i>	-7.09	
32 16 13 19-0015 LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	50.79	
<i>For Up To 20, Add</i>	20.81	
<i>For &gt;20 To 50, Add</i>	11.47	
<i>For &gt;50 To 100, Add</i>	4.67	
<i>For &gt;500 To 1,000, Deduct</i>	-4.67	
<i>For &gt;1,000, Deduct</i>	-8.28	
32 16 13 19-0016 LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	58.78	
<i>For Up To 20, Add</i>	23.46	
<i>For &gt;20 To 50, Add</i>	12.90	
<i>For &gt;50 To 100, Add</i>	5.28	
<i>For &gt;500 To 1,000, Deduct</i>	-5.28	
<i>For &gt;1,000, Deduct</i>	-9.39	
32 16 13 19-0017 SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	9.80	
<i>For Up To 100, Add</i>	3.91	
<i>For &gt;100 To 250, Add</i>	2.15	
<i>For &gt;250 To 500, Add</i>	0.88	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.88	
<i>For &gt;5,000, Deduct</i>	-1.57	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0018	LF		2' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	22.38	
			<i>For Up To 20, Add</i> .....	10.01	
			<i>For &gt;20 To 50, Add</i> .....	5.56	
			<i>For &gt;50 To 100, Add</i> .....	2.23	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-2.23	
			<i>For &gt;1,000, Deduct</i> .....	-3.90	
32 16 13 19-0019	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	27.49	
			<i>For Up To 20, Add</i> .....	12.17	
			<i>For &gt;20 To 50, Add</i> .....	6.75	
			<i>For &gt;50 To 100, Add</i> .....	2.71	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-2.71	
			<i>For &gt;1,000, Deduct</i> .....	-4.75	
32 16 13 19-0020	LF		3' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	32.53	
			<i>For Up To 20, Add</i> .....	14.28	
			<i>For &gt;20 To 50, Add</i> .....	7.92	
			<i>For &gt;50 To 100, Add</i> .....	3.18	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-3.18	
			<i>For &gt;1,000, Deduct</i> .....	-5.58	
32 16 13 19-0021	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	37.57	
			<i>For Up To 20, Add</i> .....	16.39	
			<i>For &gt;20 To 50, Add</i> .....	9.08	
			<i>For &gt;50 To 100, Add</i> .....	3.65	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-3.65	
			<i>For &gt;1,000, Deduct</i> .....	-6.42	
32 16 13 19-0022	LF		4' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	42.59	
			<i>For Up To 20, Add</i> .....	18.49	
			<i>For &gt;20 To 50, Add</i> .....	10.24	
			<i>For &gt;50 To 100, Add</i> .....	4.12	
			<i>For &gt;500 To 1,000, Deduct</i> .....	-4.12	
			<i>For &gt;1,000, Deduct</i> .....	-7.25	
32 16 13 19-0023	LF		5' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	50.75	
32 16 13 19-0024	LF		6' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	58.61	
32 16 13 19-0025	SF		>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick .....	9.77	
			<i>For Up To 100, Add</i> .....	4.01	
			<i>For &gt;100 To 250, Add</i> .....	2.21	
			<i>For &gt;250 To 500, Add</i> .....	0.90	
			<i>For &gt;2,500 To 5,000, Deduct</i> .....	-0.90	
			<i>For &gt;5,000, Deduct</i> .....	-1.59	
<b>32 16 13 19-0026</b>			<b>Gutter Intersections</b> <small>(32 16 13 19)</small>		
			Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027	EA		Cast In Place Concrete Cross Gutter At T Section .....	1,027.14	
32 16 13 19-0028	EA		8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	1,232.59	
32 16 13 19-0029	EA		10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	1,925.92	
32 16 13 19-0030	EA		15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	4,333.33	
32 16 13 19-0031	EA		20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	7,703.70	
32 16 13 19-0032	EA		25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	12,037.02	
32 16 13 19-0033	EA		30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter .....	17,333.32	
<b>32 16 13 19-0034</b>			<b>Driveway Approach, Cast In Place</b> <small>(32 16 13 19)</small>		
			Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035	SF		4 Cast In Place Concrete Driveway Approach .....	11.96	
			<i>For Up To 100, Add</i> .....	5.31	
			<i>For &gt;100 To 500, Add</i> .....	1.53	
			<i>For &gt;1,000 To 5,000, Deduct</i> .....	-0.93	
			<i>For &gt;5,000, Deduct</i> .....	-1.99	
32 16 13 19-0036	SF		6" Cast In Place Concrete Driveway Approach .....	16.42	
			<i>For Up To 100, Add</i> .....	7.27	
			<i>For &gt;100 To 500, Add</i> .....	2.09	
			<i>For &gt;1,000 To 5,000, Deduct</i> .....	-1.27	
			<i>For &gt;5,000, Deduct</i> .....	-2.72	
<b>32 16 13 23</b>			<b>Precast Concrete Curbs And Gutters</b> <small>(32 16 13)</small>		
<b>32 16 13 23-0001</b>			<b>Precast Concrete Curb</b> <small>(32 16 13 23)</small>		
32 16 13 23-0002	LF		6" x 18" Precast Concrete Curb .....	38.56	8.38
32 16 13 23-0003	LF		6" x 18" Precast Concrete Curb, Radius .....	46.24	9.64
32 16 13 23-0004	LF		6" x 20" Precast Concrete Curb .....	41.05	8.38
32 16 13 23-0005	LF		6" x 20" Precast Concrete Curb, Radius .....	49.54	9.64
32 16 13 23-0006	LF		7" x 18" Precast Concrete Curb .....	42.19	8.38
32 16 13 23-0007	LF		7" x 18" Precast Concrete Curb, Radius .....	50.85	9.64
32 16 13 23-0008	LF		7" x 20" Precast Concrete Curb .....	45.01	8.38
32 16 13 23-0009	LF		7" x 20" Precast Concrete Curb, Radius .....	54.43	9.64
<b>32 16 13 33</b>			<b>Asphalt Curbs</b> <small>(32 16 13)</small>		
<b>32 16 13 33-0001</b>			<b>Asphalt Curbs</b> <small>(32 16 13 33)</small>		
32 16 13 33-0002	LF		6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain .....	10.85	4.38
32 16 13 33-0003	LF		8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain .....	12.22	4.86
32 16 13 33-0004	LF		8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain .....	13.48	5.34



<b>Exterior Improvements</b>	<b>32</b>
<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>
<b>Curbs, Gutters, Sidewalks, And Driveways</b>	<b>32 16</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**32 16 13 43 Stone Curbs** (32 16 13)

32 16 13 43-0001	Remove And Reset Stone And Precast Curbing <small>(32 16 13 43)</small> Note: Includes storage and cleaning.	
32 16 13 43-0002	LF Removal And Resetting Of Stone Or Precast Curbing..... Note: Includes storage and cleaning.	31.59

**32 16 23 Sidewalks** (32 16)

32 16 23 00-0001	Cast In Place Concrete Sidewalk <small>(32 16 23)</small> Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.	
32 16 23 00-0002	SF 4" Cast In Place Concrete Sidewalk..... For Up To 100, Add For >100 To 500, Add For Welded Wire Reinforcement, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	8.35 3.57 1.01 0.67 -0.59 -1.31
32 16 23 00-0003	SF 5" Cast In Place Concrete Sidewalk..... For Up To 100, Add For >100 To 500, Add For Welded Wire Reinforcement, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	9.10 3.81 1.07 0.67 -0.61 -1.37
32 16 23 00-0004	SF 6" Cast In Place Concrete Sidewalk..... For Up To 100, Add For >100 To 500, Add For Welded Wire Reinforcement, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	9.87 4.06 1.13 0.67 -0.64 -1.45
32 16 23 00-0005	SF 7" Cast In Place Concrete Sidewalk..... For Up To 100, Add For >100 To 500, Add For Welded Wire Reinforcement, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	11.48 4.67 1.30 0.67 -0.72 -1.66
32 16 23 00-0006	SF 8" Cast In Place Concrete Sidewalk..... For Up To 100, Add For >100 To 500, Add For Welded Wire Reinforcement, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.15 4.87 1.34 0.67 -0.73 -1.71
32 16 23 00-0007	SF For Exposed Aggregate Finish In Sidewalk.....	2.11
32 16 23 00-0008	EA Finish Concrete Handicap Drop Section In Sidewalk..... Note: Excludes patterned (tactile) finish.	126.54

**32 16 23 00-0009 Bituminous Sidewalk** (32 16 23)

32 16 23 00-0010	SY 1" Bituminous Sidewalk..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	8.21 3.04 0.80 -0.39 -0.80
32 16 23 00-0011	SY 1-1/2" Bituminous Sidewalk..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	10.32 3.76 0.99 -0.47 -0.99
32 16 23 00-0012	SY 2" Bituminous Sidewalk..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.39 5.07 1.31 -0.59 -1.31
32 16 23 00-0013	SY 2-1/2" Bituminous Sidewalk..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	17.98 6.31 1.63 -0.73 -1.63
32 16 23 00-0014	SY 3" Bituminous Sidewalk..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	20.73 7.15 1.82 -0.79 -1.82



<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 16</b>	<b>Curbs, Gutters, Sidewalks, And Driveways</b>



MINOR  
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TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 16 23 00-0015	SY	3-1/2" Bituminous Sidewalk.....	23.99	
		<i>For Up To 100, Add</i>	8.17	
		<i>For &gt;100 To 500, Add</i>	2.07	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.87	
		<i>For &gt;5,000, Deduct</i>	-2.07	

### 32 16 43 Asphalt Dike (32 16)

32 16 43 00-0001	LF	Asphalt Dike <small>(32 16 43)</small>		
32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height .....	5.90	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height .....	8.13	
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height .....	8.13	
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height .....	11.67	
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height .....	13.84	
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height .....	3.05	
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back .....	8.45	
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back .....	13.05	
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height .....	5.90	
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height .....	3.05	
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back .....	13.05	
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back .....	8.45	
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height .....	4.48	

### 32 17 Paving Specialties (32 10)

#### 32 17 13 Parking Bumpers (32 17)

Note: Includes dowels set.

##### 32 17 13 16 Plastic Parking Bumpers (32 17 13)

32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop.....	78.49	6.13
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop.....	88.04	6.13

##### 32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)

32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels .....	50.32	18.45
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels .....	58.53	18.45
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels .....	59.83	18.45
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels .....	62.52	18.45
32 17 13 19-0005	EA	8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels .....	58.53	18.45
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels .....	73.36	18.45
32 17 13 19-0007	EA	8" x 12" x 8' Precast Concrete Wheel Stop With Dowels .....	108.51	19.92
32 17 13 19-0008	EA	Removal And Relocation Of Precast Concrete Wheel Stop .....	29.51	
32 17 13 19-0009	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop .....	19.18	
32 17 13 19-0010	EA	7.625" x 7.625" x 6' Precast Concrete Wheel Stop .....	78.08	18.45
32 17 13 19-0011	EA	7.625" x 7.625" x 8' Precast Concrete Wheel Stop .....	112.59	18.45

##### 32 17 13 23 Rubber Parking Bumpers (32 17 13)

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop .....	25.60	6.13
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop .....	29.74	6.13
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop .....	31.40	6.13
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop .....	33.88	6.13

##### 32 17 13 26 Wood Parking Bumpers (32 17 13)

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated .....	8.55	1.48
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated .....	11.17	1.48

### 32 17 16 Manufactured Traffic-Calming Devices (32 17)

#### 32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table .....	46.43	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table .....	40.55	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table .....	37.93	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table .....	44.39	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table .....	38.92	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		



<b>Exterior Improvements</b>	<b>32</b>	
<b>Bases, Ballasts, And Paving</b>	<b>32 10</b>	<b>32</b>
<b>Paving Specialties</b>	<b>32 17</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0007	SF		>24' To 30' Road Width x 21' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	36.57	
32 17 16 00-0008	SF		>30' To 40' Road Width x 7' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	42.31	
32 17 16 00-0009	SF		>30' To 40' Road Width x 14' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	37.65	
32 17 16 00-0010	SF		>30' To 40' Road Width x 21' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	35.44	
<b>32 17 16 00-0011</b>			<b>Asphalt Speed Table</b> (32 17 16) Note: Excludes pavement markings or reflectors.		
32 17 16 00-0012	LF		Up to 36" Wide Asphalt Speed Table With 3" Center Crown ..... Note: Tapered on edges to roadway.	30.98	
32 17 16 00-0013	LF		>36" To 48" Wide Asphalt Speed Table With 3" Center Crown ..... Note: Tapered on edges to roadway.	36.58	
32 17 16 00-0014	LF		Up to 36" Wide Asphalt Speed Table With 4" Center Crown ..... Note: Tapered on edges to roadway.	38.94	
32 17 16 00-0015	LF		>36" To 48" Wide Asphalt Speed Table With 4" Center Crown ..... Note: Tapered on edges to roadway.	46.01	
32 17 16 00-0016	LF		Up to 36" Wide Asphalt Speed Table With 6" Center Crown ..... Note: Tapered on edges to roadway.	47.52	
32 17 16 00-0017	LF		>36" To 48" Wide Asphalt Speed Table With 6" Center Crown ..... Note: Tapered on edges to roadway.	53.13	
<b>32 17 16 00-0018</b>			<b>Speed Bumps</b> (32 17 16) Note: Excludes pavement markings or reflectors.		
32 17 16 00-0019	LF		2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump .....	31.55	1.45
32 17 16 00-0020	LF		2-1/4" High x 12" Wide, Recycled Rubber Speed Bump .....	24.24	0.96
32 17 16 00-0021	LF		2-5/8" High x 12" Wide, Recycled Plastic Speed Bump .....	49.58	0.96
<b>32 17 23</b>			<b>Pavement Markings</b> (32 17)		
<b>32 17 23 13</b>			<b>Painted Pavement Markings</b> (32 17 23)		
<b>32 17 23 13-0001</b>			<b>Pavement Striping Minimum Charge</b> (32 17 23 13)		
32 17 23 13-0002	EA		Pavement Striping Minimum Charge .....	349.23	
<b>32 17 23 13-0003</b>			<b>Striping, Letters, Symbols And Markers for Roads And Airports</b> (32 17 23 13) Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
<b>32 17 23 13-0004</b>			<b>Epoxy Reflective Pavement Marking</b> (32 17 23 13-0003) Note: 15 mil thickness.		
32 17 23 13-0005	LF		Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping .....	0.41	
			For 20 Mil Thickness, Add	0.09	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line (25% Solid), Deduct	-0.17	
32 17 23 13-0006	LF		Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping .....	0.58	
			For 20 Mil Thickness, Add	0.13	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
			For Broken Line (25% Solid), Deduct	-0.26	
32 17 23 13-0007	LF		Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping .....	0.71	
			For 20 Mil Thickness, Add	0.15	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line (25% Solid), Deduct	-0.32	
32 17 23 13-0008	LF		Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping .....	1.04	
			For 20 Mil Thickness, Add	0.24	
			For Up To 5,000 LF, Add	0.21	
			For >25,000 LF, Deduct	-0.16	
			For Broken Line (25% Solid), Deduct	-0.51	
32 17 23 13-0009	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping .....	0.64	
			For 20 Mil Thickness, Add	0.16	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
			For Broken Line On One Side, Deduct	-0.17	
			For Double Broken Line, Deduct	-0.35	
32 17 23 13-0010	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping .....	0.92	
			For 20 Mil Thickness, Add	0.24	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.26	
			For Double Broken Line, Deduct	-0.52	

**32 Exterior Improvements**  
**32 10 Bases, Ballasts, And Paving**  
**32 17 Paving Specialties**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0011 SF Solid Area, Epoxy Reflective Pavement Marking .....6.47 Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
For 20 Mil Thickness, Add	0.67	
32 17 23 13-0012 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking .....4.07		
For 20 Mil Thickness, Add	0.34	
For <10, Add	0.54	
For >50 To 100, Deduct	-0.27	
For >100 To 200, Deduct	-0.36	
For >200, Deduct	-0.72	
32 17 23 13-0013 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking .....7.18		
For 20 Mil Thickness, Add	0.86	
For <10, Add	0.81	
For >50 To 100, Deduct	-0.41	
For >100 To 200, Deduct	-0.54	
For >200, Deduct	-1.08	
32 17 23 13-0014 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking .....12.09		
For 20 Mil Thickness, Add	1.48	
For <10, Add	1.35	
For >50 To 100, Deduct	-0.67	
For >100 To 200, Deduct	-0.90	
For >200, Deduct	-1.80	
32 17 23 13-0015 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking .....23.44		
For 20 Mil Thickness, Add	2.72	
For <10, Add	2.70	
For >50 To 100, Deduct	-1.35	
For >100 To 200, Deduct	-1.80	
For >200, Deduct	-3.60	
32 17 23 13-0016 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking .....27.25		
For 20 Mil Thickness, Add	3.37	
For <10, Add	3.03	
For >50 To 100, Deduct	-1.51	
For >100 To 200, Deduct	-2.02	
For >200, Deduct	-4.03	
32 17 23 13-0017 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking .....48.82		
For 20 Mil Thickness, Add	6.11	
For <10, Add	5.38	
For >50 To 100, Deduct	-2.69	
For >100 To 200, Deduct	-3.59	
For >200, Deduct	-7.18	
32 17 23 13-0018 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking .....65.20		
For 20 Mil Thickness, Add	8.08	
For <10, Add	7.23	
For >50 To 100, Deduct	-3.61	
For >100 To 200, Deduct	-4.82	
For >200, Deduct	-9.64	
32 17 23 13-0019 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking .....97.69		
For 20 Mil Thickness, Add	15.65	
For <10, Add	8.96	
For >50 To 100, Deduct	-4.48	
For >100 To 200, Deduct	-5.97	
For >200, Deduct	-11.94	
32 17 23 13-0020 SF Letter/Number, Epoxy Reflective Pavement Marking .....6.64		
For 20 Mil Thickness, Add	0.68	
32 17 23 13-0021 SF Symbols, Epoxy Reflective Pavement Marking .....8.47 Note: Handicap, railroad, diamond, arrows, etc.		
<b>32 17 23 13-0022 Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0003)</b>		
Note: 15 mil thickness.		
32 17 23 13-0023 LF Single 4" Wide Solid Line, Painted Reflective Pavement Striping .....0.25 Note: Includes solvent based and latex paints.		
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
For Broken Line (25% Solid), Deduct	-0.05	
32 17 23 13-0024 LF Single 6" Wide Solid Line, Painted Reflective Pavement Striping .....0.33 Note: Includes solvent based and latex paints.		
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
For Broken Line (25% Solid), Deduct	-0.08	
32 17 23 13-0025 LF Single 8" Wide Solid Line, Painted Reflective Pavement Striping .....0.41 Note: Includes solvent based and latex paints.		
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line (25% Solid), Deduct	-0.09	
32 17 23 13-0026 LF Single 12" Wide Solid Line, Painted Reflective Pavement Striping .....0.55 Note: Includes solvent based and latex paints.		
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
For Broken Line (25% Solid), Deduct	-0.14	
32 17 23 13-0027 LF Double 4" Wide Solid Lines, Painted Reflective Pavement Striping .....0.37		
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0028 LF Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.55	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
<i>For Broken Line On One Side, Deduct</i>	-0.07	
<i>For Double Broken Line, Deduct</i>	-0.14	
32 17 23 13-0029 SF Solid Area, Painted Reflective Pavement Striping .....	5.43	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0030 EA 6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	3.87	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	0.54	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 200, Deduct</i>	-0.36	
<i>For &gt;200, Deduct</i>	-0.72	
32 17 23 13-0031 EA 12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	6.46	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	0.81	
<i>For &gt;50 To 100, Deduct</i>	-0.41	
<i>For &gt;100 To 200, Deduct</i>	-0.54	
<i>For &gt;200, Deduct</i>	-1.08	
32 17 23 13-0032 EA 24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	10.83	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	1.35	
<i>For &gt;50 To 100, Deduct</i>	-0.67	
<i>For &gt;100 To 200, Deduct</i>	-0.90	
<i>For &gt;200, Deduct</i>	-1.80	
32 17 23 13-0033 EA 36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	21.23	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	2.70	
<i>For &gt;50 To 100, Deduct</i>	-1.35	
<i>For &gt;100 To 200, Deduct</i>	-1.80	
<i>For &gt;200, Deduct</i>	-3.60	
32 17 23 13-0034 EA 48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	24.38	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	3.03	
<i>For &gt;50 To 100, Deduct</i>	-1.51	
<i>For &gt;100 To 200, Deduct</i>	-2.02	
<i>For &gt;200, Deduct</i>	-4.03	
32 17 23 13-0035 EA 72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	43.58	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	5.38	
<i>For &gt;50 To 100, Deduct</i>	-2.69	
<i>For &gt;100 To 200, Deduct</i>	-3.59	
<i>For &gt;200, Deduct</i>	-7.18	
32 17 23 13-0036 EA 96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	58.31	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	7.23	
<i>For &gt;50 To 100, Deduct</i>	-3.61	
<i>For &gt;100 To 200, Deduct</i>	-4.82	
<i>For &gt;200, Deduct</i>	-9.64	
32 17 23 13-0037 EA 120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	82.31	
Note: Includes solvent based and latex paints.		
<i>For &lt;10, Add</i>	8.96	
<i>For &gt;50 To 100, Deduct</i>	-4.48	
<i>For &gt;100 To 200, Deduct</i>	-5.97	
<i>For &gt;200, Deduct</i>	-11.94	
32 17 23 13-0038 SF Letter/Number, Painted Reflective Pavement Marking.....	6.14	
Note: Includes solvent based and latex paints.		
32 17 23 13-0039 SF Symbols, Painted Reflective Pavement Marking.....	7.36	
Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
<b>32 17 23 13-0040 Pavement Marking (CALTRANS) (32 17 23 13)</b>		
Note: Per LF of detail.		
32 17 23 13-0041 LF CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping .....	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0042 LF CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping .....	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0043 LF CALTRANS Detail 4 Centerline .....	0.58	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For &gt;25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0044 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping .....	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0045 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping .....	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0046 LF CALTRANS Detail 7 Centerline .....	0.42	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0047 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping .....	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For &gt;25,000 LF, Deduct</i>	-0.03	

**32 Exterior Improvements**  
**32 10 Bases, Ballasts, And Paving**  
**32 17 Paving Specialties**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0048	LF	CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping.....	0.29	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0049	LF	CALTRANS Detail 10 Lanelines.....	0.58	
			<i>For Up To 5,000 LF, Add</i>	0.12	
			<i>For &gt;25,000 LF, Deduct</i>	-0.09	
32 17 23	13-0050	LF	CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping.....	0.20	
			<i>For Up To 5,000 LF, Add</i>	0.04	
			<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23	13-0051	LF	CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping.....	0.28	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0052	LF	CALTRANS Detail 13 Lanelines.....	0.42	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0053	LF	CALTRANS Detail 14 Lanelines.....	0.42	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0054	LF	CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping.....	0.28	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0055	LF	CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.28	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
			<i>For Broken Line On One Side, Deduct</i>	-0.04	
			<i>For Double Broken Line, Deduct</i>	-0.08	
32 17 23	13-0056	LF	CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.62	
			<i>For Up To 5,000 LF, Add</i>	0.12	
			<i>For &gt;25,000 LF, Deduct</i>	-0.09	
32 17 23	13-0057	LF	CALTRANS Detail 17 No Passing Zones-One Direction Lanelines.....	1.67	
			<i>For Up To 5,000 LF, Add</i>	0.33	
			<i>For &gt;25,000 LF, Deduct</i>	-0.25	
32 17 23	13-0058	LF	CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.27	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
			<i>For Broken Line On One Side, Deduct</i>	-0.03	
			<i>For Double Broken Line, Deduct</i>	-0.07	
32 17 23	13-0059	LF	CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.54	
			<i>For Up To 5,000 LF, Add</i>	0.11	
			<i>For &gt;25,000 LF, Deduct</i>	-0.08	
32 17 23	13-0060	LF	CALTRANS Detail 20 No Passing Zones-One Direction Lanelines.....	1.43	
			<i>For Up To 5,000 LF, Add</i>	0.29	
			<i>For &gt;25,000 LF, Deduct</i>	-0.21	
32 17 23	13-0061	LF	CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.33	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For &gt;25,000 LF, Deduct</i>	-0.05	
			<i>For Broken Line On One Side, Deduct</i>	-0.06	
			<i>For Double Broken Line, Deduct</i>	-0.11	
32 17 23	13-0062	LF	CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.68	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For &gt;25,000 LF, Deduct</i>	-0.10	
32 17 23	13-0063	LF	CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines.....	2.00	
			<i>For Up To 5,000 LF, Add</i>	0.40	
			<i>For &gt;25,000 LF, Deduct</i>	-0.30	
32 17 23	13-0064	LF	CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping.....	0.25	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0065	LF	CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping.....	0.34	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For &gt;25,000 LF, Deduct</i>	-0.05	
32 17 23	13-0066	LF	CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping.....	0.42	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0067	LF	CALTRANS Detail 26 Left Edgelines.....	0.08	
			<i>For Up To 5,000 LF, Add</i>	0.02	
			<i>For &gt;25,000 LF, Deduct</i>	-0.01	
32 17 23	13-0068	LF	CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping.....	0.41	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0069	LF	CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping.....	0.25	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0070	LF	CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping.....	0.19	
			<i>For Up To 5,000 LF, Add</i>	0.04	
			<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23	13-0071	LF	CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.66	
			<i>For Up To 5,000 LF, Add</i>	0.13	
			<i>For &gt;25,000 LF, Deduct</i>	-0.10	
			<i>For Broken Line On One Side, Deduct</i>	-0.11	
			<i>For Double Broken Line, Deduct</i>	-0.23	
32 17 23	13-0072	LF	CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	1.02	
			<i>For Up To 5,000 LF, Add</i>	0.20	
			<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23	13-0073	LF	CALTRANS Detail 30 Median Islands.....	4.01	
			<i>For Up To 5,000 LF, Add</i>	0.80	
			<i>For &gt;25,000 LF, Deduct</i>	-0.60	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0074 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.55	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
<i>For Broken Line On One Side, Deduct</i>	-0.07	
<i>For Double Broken Line, Deduct</i>	-0.14	
32 17 23 13-0075 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.99	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0076 LF CALTRANS Detail 33 Two-Way Left Turn Lanes.....	2.75	
<i>For Up To 5,000 LF, Add</i>	0.55	
<i>For &gt;25,000 LF, Deduct</i>	-0.41	
32 17 23 13-0077 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping .....	0.54	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0078 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.27	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0079 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping .....	0.63	
<i>For Up To 5,000 LF, Add</i>	0.13	
<i>For &gt;25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0080 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.28	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0081 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping.....	1.16	
<i>For Up To 5,000 LF, Add</i>	0.23	
<i>For &gt;25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0082 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.77	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0083 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping .....	0.83	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For &gt;25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0084 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping .....	0.70	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0085 LF CALTRANS Detail 37A Lane Drop At Exit Ramps .....	1.34	
<i>For Up To 5,000 LF, Add</i>	0.27	
<i>For &gt;25,000 LF, Deduct</i>	-0.20	
32 17 23 13-0086 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping .....	0.70	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0087 LF CALTRANS Detail 37C Lane Drop At Intersections.....	1.34	
<i>For Up To 5,000 LF, Add</i>	0.27	
<i>For &gt;25,000 LF, Deduct</i>	-0.20	
32 17 23 13-0088 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping .....	0.69	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For &gt;25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0089 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping .....	0.52	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0090 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping .....	0.87	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For &gt;25,000 LF, Deduct</i>	-0.13	
32 17 23 13-0091 LF CALTRANS Detail 38C Channelizing Line.....	2.00	
<i>For Up To 5,000 LF, Add</i>	0.40	
<i>For &gt;25,000 LF, Deduct</i>	-0.30	
32 17 23 13-0092 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping .....	0.33	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0093 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping .....	0.26	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0094 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping .....	0.19	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0095 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections.....	0.99	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0096 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping .....	0.19	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For &gt;25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0097 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	0.99	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0098 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking .....	97.98	
<i>For &lt;10, Add</i>	13.09	
<i>For &gt;50 To 100, Deduct</i>	-6.55	
<i>For &gt;100 To 200, Deduct</i>	-8.73	
<i>For &gt;200, Deduct</i>	-17.46	
32 17 23 13-0099 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking .....	171.85	
<i>For &lt;10, Add</i>	22.92	
<i>For &gt;50 To 100, Deduct</i>	-11.46	
<i>For &gt;100 To 200, Deduct</i>	-15.28	
<i>For &gt;200, Deduct</i>	-30.55	

**32 Exterior Improvements**  
**32 10 Bases, Ballasts, And Paving**  
**32 17 Paving Specialties**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0100 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking .....	215.70	
For <10, Add	28.81	
For >50 To 100, Deduct	-14.40	
For >100 To 200, Deduct	-19.20	
For >200, Deduct	-38.41	
32 17 23 13-0101 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking.....	313.69	
For <10, Add	41.90	
For >50 To 100, Deduct	-20.95	
For >100 To 200, Deduct	-27.93	
For >200, Deduct	-55.87	
32 17 23 13-0102 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking.....	411.66	
For <10, Add	54.99	
For >50 To 100, Deduct	-27.50	
For >100 To 200, Deduct	-36.66	
For >200, Deduct	-73.33	
32 17 23 13-0103 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	289.57	
For <10, Add	38.63	
For >50 To 100, Deduct	-19.31	
For >100 To 200, Deduct	-25.75	
For >200, Deduct	-51.50	
32 17 23 13-0104 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking.....	505.27	
For <10, Add	67.43	
For >50 To 100, Deduct	-33.72	
For >100 To 200, Deduct	-44.96	
For >200, Deduct	-89.91	
32 17 23 13-0105 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking.....	103.11	
For <10, Add	13.75	
For >50 To 100, Deduct	-6.87	
For >100 To 200, Deduct	-9.17	
For >200, Deduct	-18.33	
32 17 23 13-0106 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking .....	225.97	
For <10, Add	30.12	
For >50 To 100, Deduct	-15.06	
For >100 To 200, Deduct	-20.08	
For >200, Deduct	-40.16	
32 17 23 13-0107 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking .....	289.57	
For <10, Add	38.63	
For >50 To 100, Deduct	-19.31	
For >100 To 200, Deduct	-25.75	
For >200, Deduct	-51.50	
32 17 23 13-0108 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking .....	186.62	
For <10, Add	24.88	
For >50 To 100, Deduct	-12.44	
For >100 To 200, Deduct	-16.59	
For >200, Deduct	-33.17	
32 17 23 13-0109 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking .....	245.71	
For <10, Add	32.73	
For >50 To 100, Deduct	-16.37	
For >100 To 200, Deduct	-21.82	
For >200, Deduct	-43.65	
32 17 23 13-0110 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking.....	48.99	
For <10, Add	6.55	
For >50 To 100, Deduct	-3.27	
For >100 To 200, Deduct	-4.37	
For >200, Deduct	-8.73	
32 17 23 13-0111 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking .....	468.07	
Note: Excludes variable width transverse lines.		
For <10, Add	62.20	
For >50 To 100, Deduct	-31.10	
For >100 To 200, Deduct	-41.46	
For >200, Deduct	-82.93	
32 17 23 13-0112 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	6.08	
32 17 23 13-0113 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking .....	43.78	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	4.71	
For >50 To 100, Deduct	-2.36	
For >100 To 200, Deduct	-3.14	
For >200, Deduct	-6.29	
32 17 23 13-0114 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking .....	46.32	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	4.98	
For >50 To 100, Deduct	-2.49	
For >100 To 200, Deduct	-3.32	
For >200, Deduct	-6.63	
32 17 23 13-0115 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking .....	78.23	
For <10, Add	10.47	
For >50 To 100, Deduct	-5.24	
For >100 To 200, Deduct	-6.98	
For >200, Deduct	-13.97	
32 17 23 13-0116 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	158.96	
For <10, Add	21.21	
For >50 To 100, Deduct	-10.61	
For >100 To 200, Deduct	-14.14	
For >200, Deduct	-28.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0117 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	34.63	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For &lt;10, Add</i>	4.98	
<i>For &gt;50 To 100, Deduct</i>	-2.49	
<i>For &gt;100 To 200, Deduct</i>	-3.32	
<i>For &gt;200, Deduct</i>	-6.63	
32 17 23 13-0118 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking .....	6.17	
32 17 23 13-0119 SF CALTRANS Symbols, Painted Reflective Pavement Marking.....	6.87	
Note: Handicap, railroad, diamond, arrows, etc.		
<b>32 17 23 13-0120 Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)</b>		
<b>32 17 23 13-0121 Painted Pavement Marking For Parking Areas (32 17 23 13-0120)</b>		
32 17 23 13-0122 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas .....	0.93	
32 17 23 13-0123 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas .....	1.02	
32 17 23 13-0124 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas .....	1.08	
32 17 23 13-0125 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas .....	1.22	
32 17 23 13-0126 SF Solid Area, Painted Pavement Marking For Parking Areas.....	5.39	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0127 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	3.77	
<i>For Up To 10, Add</i>	0.52	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100 To 200, Deduct</i>	-0.35	
<i>For &gt;200, Deduct</i>	-0.70	
32 17 23 13-0128 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas .....	6.25	
<i>For Up To 10, Add</i>	0.79	
<i>For &gt;50 To 100, Deduct</i>	-0.39	
<i>For &gt;100 To 200, Deduct</i>	-0.52	
<i>For &gt;200, Deduct</i>	-1.05	
32 17 23 13-0129 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas .....	10.50	
<i>For Up To 10, Add</i>	1.31	
<i>For &gt;50 To 100, Deduct</i>	-0.65	
<i>For &gt;100 To 200, Deduct</i>	-0.87	
<i>For &gt;200, Deduct</i>	-1.75	
32 17 23 13-0130 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas .....	19.69	
<i>For Up To 10, Add</i>	2.49	
<i>For &gt;50 To 100, Deduct</i>	-1.24	
<i>For &gt;100 To 200, Deduct</i>	-1.66	
<i>For &gt;200, Deduct</i>	-3.32	
32 17 23 13-0131 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas .....	26.26	
<i>For Up To 10, Add</i>	3.40	
<i>For &gt;50 To 100, Deduct</i>	-1.70	
<i>For &gt;100 To 200, Deduct</i>	-2.27	
<i>For &gt;200, Deduct</i>	-4.54	
32 17 23 13-0132 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas .....	31.97	
<i>For Up To 10, Add</i>	4.19	
<i>For &gt;50 To 100, Deduct</i>	-2.09	
<i>For &gt;100 To 200, Deduct</i>	-2.79	
<i>For &gt;200, Deduct</i>	-5.59	
32 17 23 13-0133 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas .....	42.30	
<i>For Up To 10, Add</i>	5.24	
<i>For &gt;50 To 100, Deduct</i>	-2.62	
<i>For &gt;100 To 200, Deduct</i>	-3.49	
<i>For &gt;200, Deduct</i>	-6.98	
32 17 23 13-0134 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	72.65	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0135 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	81.74	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0136 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas .....	113.03	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0137 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas .....	115.12	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0138 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	147.64	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0139 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas.....	30.73	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
<i>For Blue Background With White Symbol, Add</i>	21.14	
<i>For Blue Background With White Symbol And Border, Add</i>	26.42	
32 17 23 13-0140 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	43.34	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
<i>For Blue Background With White Symbol, Add</i>	41.45	
<i>For Blue Background With White Symbol And Border, Add</i>	51.81	
<b>32 17 23 13-0141 Painted Curbs (32 17 23 13)</b>		
Note: All colors.		
32 17 23 13-0142 LF Reflective Painted Curb .....	2.94	
32 17 23 13-0143 LF Reflective Painted Curb And Gutter .....	5.59	
32 17 23 13-0144 LF Painted Curb .....	2.39	
32 17 23 13-0145 LF Painted Curb And Gutter.....	5.09	
<b>32 17 23 13-0146 Markings For Outdoor Play Areas, Courts (32 17 23 13)</b>		
32 17 23 13-0147 LF 2" Wide Marking For Outdoor Play Areas .....	0.76	

<b>32</b>	<b>Exterior Improvements</b>
<b>32 10</b>	<b>Bases, Ballasts, And Paving</b>
<b>32 17</b>	<b>Paving Specialties</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0148	LF	3" Wide Marking For Outdoor Play Areas .....	0.85	
32 17 23	13-0149	LF	4" Wide Marking For Outdoor Play Areas .....	0.97	
32 17 23	13-0150	LF	6" Wide Marking For Outdoor Play Areas .....	1.13	
32 17 23	13-0151	EA	Paint Playground Game Lines On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera).....	293.29	
<b>32 17 23 23 Raised Pavement Markings (32 17 23)</b>					
<b>32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)</b>					
32 17 23 23	23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM)..... Note: Type G, H or R	3.96	2.23
			<i>For &gt;100, Deduct</i>	-0.40	
32 17 23 23	23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM)..... Note: Type B, C, D, AC, RA or RR	4.16	2.23
			<i>For &gt;100, Deduct</i>	-0.42	
32 17 23 23	23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM) .....	5.36	2.23
			<i>For &gt;100, Deduct</i>	-0.54	
32 17 23 23	23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) .....	3.71	2.23
			Note: Type A or AY <i>For &gt;100, Deduct</i>	-0.37	
<b>32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)</b>					
32 17 23 23	23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail .....	55.40	25.89
			Note: Type G, H or R		
32 17 23 23	23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail .....	55.57	25.89
			Note: Type B, C, D, AC, RA or RR		
32 17 23 23	23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker .....	15.46	
32 17 23 23	23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker.....	19.96	
<b>32 17 23 33 Plastic Pavement Markings (32 17 23)</b>					
<b>32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33)</b>					
			Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
<b>32 17 23 33-0002 Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)</b>					
			Note: 90 mil thickness.		
32 17 23 33	33-0003	LF	Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping.....	1.15	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For &gt;25,000 LF, Deduct</i>	-0.17	
			<i>For 60 mils Thick, Deduct</i>	-0.16	
			<i>For 125 mils Thick, Add</i>	0.20	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.68	
32 17 23 33	33-0004	LF	Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping.....	1.66	
			<i>For Up To 5,000 LF, Add</i>	0.33	
			<i>For &gt;25,000 LF, Deduct</i>	-0.25	
			<i>For 60 mils Thick, Deduct</i>	-0.24	
			<i>For 125 mils Thick, Add</i>	0.31	
			<i>For Broken Line (25% Solid), Deduct</i>	-1.02	
32 17 23 33	33-0005	LF	Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping.....	2.19	
			<i>For Up To 5,000 LF, Add</i>	0.44	
			<i>For &gt;25,000 LF, Deduct</i>	-0.33	
			<i>For 60 mils Thick, Deduct</i>	-0.32	
			<i>For 125 mils Thick, Add</i>	0.41	
			<i>For Broken Line (25% Solid), Deduct</i>	-1.36	
32 17 23 33	33-0006	LF	Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping.....	3.21	
			<i>For Up To 5,000 LF, Add</i>	0.64	
			<i>For &gt;25,000 LF, Deduct</i>	-0.48	
			<i>For 60 mils Thick, Deduct</i>	-0.48	
			<i>For 125 mils Thick, Add</i>	0.61	
			<i>For Broken Line (25% Solid), Deduct</i>	-2.04	
32 17 23 33	33-0007	LF	Double 4" Wide Solid Lines, Thermoplastic Reflective Pavement Striping.....	2.17	
			<i>For Up To 5,000 LF, Add</i>	0.43	
			<i>For &gt;25,000 LF, Deduct</i>	-0.33	
			<i>For 60 mils Thick, Deduct</i>	-0.32	
			<i>For 125 mils Thick, Add</i>	0.41	
			<i>For Broken Line On One Side, Deduct</i>	-0.68	
			<i>For Double Broken Line, Deduct</i>	-1.36	
32 17 23 33	33-0008	LF	Double 6" Wide Solid Lines, Thermoplastic Reflective Pavement Striping.....	3.21	
			<i>For Up To 5,000 LF, Add</i>	0.64	
			<i>For &gt;25,000 LF, Deduct</i>	-0.48	
			<i>For 60 mils Thick, Deduct</i>	-0.48	
			<i>For 125 mils Thick, Add</i>	0.61	
			<i>For Broken Line On One Side, Deduct</i>	-1.02	
			<i>For Double Broken Line, Deduct</i>	-2.04	
32 17 23 33	33-0009	SF	Solid Area, Thermoplastic Reflective Pavement Marking.....	7.94	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			<i>For 60 mils Thick, Deduct</i>	-0.47	
			<i>For 125 mils Thick, Add</i>	0.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0010 EA 6" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	5.22	
<i>For Up To 10, Add</i>	0.59	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 200, Deduct</i>	-0.39	
<i>For &gt;200, Deduct</i>	-0.79	
<i>For 60 mils Thick, Deduct</i>	-0.23	
<i>For 125 mils Thick, Add</i>	0.29	
32 17 23 33-0011 EA 12" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	10.62	
<i>For Up To 10, Add</i>	0.89	
<i>For &gt;50 To 100, Deduct</i>	-0.45	
<i>For &gt;100 To 200, Deduct</i>	-0.59	
<i>For &gt;200, Deduct</i>	-1.19	
<i>For 60 mils Thick, Deduct</i>	-0.82	
<i>For 125 mils Thick, Add</i>	1.05	
32 17 23 33-0012 EA 24" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	18.06	
<i>For Up To 10, Add</i>	1.48	
<i>For &gt;50 To 100, Deduct</i>	-0.74	
<i>For &gt;100 To 200, Deduct</i>	-0.99	
<i>For &gt;200, Deduct</i>	-1.97	
<i>For 60 mils Thick, Deduct</i>	-1.43	
<i>For 125 mils Thick, Add</i>	1.84	
32 17 23 33-0013 EA 36" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	34.21	
<i>For Up To 10, Add</i>	2.97	
<i>For &gt;50 To 100, Deduct</i>	-1.49	
<i>For &gt;100 To 200, Deduct</i>	-1.98	
<i>For &gt;200, Deduct</i>	-3.96	
<i>For 60 mils Thick, Deduct</i>	-2.52	
<i>For 125 mils Thick, Add</i>	3.24	
32 17 23 33-0014 EA 48" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	40.91	
<i>For Up To 10, Add</i>	3.33	
<i>For &gt;50 To 100, Deduct</i>	-1.66	
<i>For &gt;100 To 200, Deduct</i>	-2.22	
<i>For &gt;200, Deduct</i>	-4.44	
<i>For 60 mils Thick, Deduct</i>	-3.28	
<i>For 125 mils Thick, Add</i>	4.21	
32 17 23 33-0015 EA 72" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	73.67	
<i>For Up To 10, Add</i>	5.92	
<i>For &gt;50 To 100, Deduct</i>	-2.96	
<i>For &gt;100 To 200, Deduct</i>	-3.95	
<i>For &gt;200, Deduct</i>	-7.89	
<i>For 60 mils Thick, Deduct</i>	-5.99	
<i>For 125 mils Thick, Add</i>	7.70	
32 17 23 33-0016 EA 96" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	98.00	
<i>For Up To 10, Add</i>	7.95	
<i>For &gt;50 To 100, Deduct</i>	-3.97	
<i>For &gt;100 To 200, Deduct</i>	-5.30	
<i>For &gt;200, Deduct</i>	-10.60	
<i>For 60 mils Thick, Deduct</i>	-7.88	
<i>For 125 mils Thick, Add</i>	10.13	
32 17 23 33-0017 EA 120" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	166.11	
<i>For Up To 10, Add</i>	9.85	
<i>For &gt;50 To 100, Deduct</i>	-4.92	
<i>For &gt;100 To 200, Deduct</i>	-6.56	
<i>For &gt;200, Deduct</i>	-13.13	
<i>For 60 mils Thick, Deduct</i>	-17.58	
<i>For 125 mils Thick, Add</i>	22.61	
32 17 23 33-0018 SF Letter/Number, Thermoplastic Reflective Pavement Marking .....	9.18	
<i>For 60 mils Thick, Deduct</i>	-0.57	
<i>For 125 mils Thick, Add</i>	0.73	
32 17 23 33-0019 SY Cross Hatch, Thermoplastic Reflective Pavement Marking .....	63.60	
<i>For 60 mils Thick, Deduct</i>	-4.26	
<i>For 125 mils Thick, Add</i>	5.47	
32 17 23 33-0020 EA Handicap Symbol, Thermoplastic Reflective Pavement Marking .....	241.18	
<i>For 60 mils Thick, Deduct</i>	-13.04	
<i>For 125 mils Thick, Add</i>	16.77	
32 17 23 33-0021 SY Solid Area, Thermoplastic Reflective Pavement Marking .....	77.39	
<i>For 60 mils Thick, Deduct</i>	-4.26	
<i>For 125 mils Thick, Add</i>	5.47	
32 17 23 33-0022 EA Railroad Symbol, Thermoplastic Reflective Pavement Marking .....	715.71	
<i>For 60 mils Thick, Deduct</i>	-39.70	
<i>For 125 mils Thick, Add</i>	51.05	
32 17 23 33-0023 EA Bike Lane Symbol, Thermoplastic Reflective Pavement Marking .....	137.55	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For 60 mils Thick, Deduct</i>	-17.96	
<i>For 125 mils Thick, Add</i>	23.09	
32 17 23 33-0024 EA Diamond Symbol, Thermoplastic Reflective Pavement Marking .....	115.35	
<i>For 60 mils Thick, Deduct</i>	-6.24	
<i>For 125 mils Thick, Add</i>	8.02	
32 17 23 33-0025 SF Symbols, Thermoplastic Reflective Pavement Marking .....	10.48	
Note: Handicap, railroad, diamond, arrows, etc.		
<i>For 60 mils Thick, Deduct</i>	-0.57	
<i>For 125 mils Thick, Add</i>	0.73	
32 17 23 33-0026 EA 10' Arrow, Type I, Thermoplastic Reflective Pavement Marking .....	146.80	
<i>For 60 mils Thick, Deduct</i>	-7.94	
<i>For 125 mils Thick, Add</i>	10.21	



**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0027 EA 18' Arrow, Type I, Thermoplastic Reflective Pavement Marking .....	262.16	
For 60 mils Thick, Deduct	-14.18	
For 125 mils Thick, Add	18.23	
32 17 23 33-0028 EA 24' Arrow, Type I, Thermoplastic Reflective Pavement Marking .....	325.07	
For 60 mils Thick, Deduct	-17.58	
For 125 mils Thick, Add	22.61	
32 17 23 33-0029 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, Thermoplastic Reflective Pavement Marking .....	471.88	
For 60 mils Thick, Deduct	-25.52	
For 125 mils Thick, Add	32.82	
32 17 23 33-0030 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, Thermoplastic Reflective Pavement Marking .....	618.69	
For 60 mils Thick, Deduct	-33.46	
For 125 mils Thick, Add	43.02	
32 17 23 33-0031 EA 24' Arrow Single (L or R) Turn Arrow, Type III, Thermoplastic Reflective Pavement Marking .....	440.42	
For 60 mils Thick, Deduct	-23.82	
For 125 mils Thick, Add	30.63	
32 17 23 33-0032 EA 24' Arrow Both (L and R) Turn Arrows, Type III, Thermoplastic Reflective Pavement Marking .....	765.49	
For 60 mils Thick, Deduct	-41.40	
For 125 mils Thick, Add	53.23	
32 17 23 33-0033 EA 8' Turn Arrow (L or R), Type IV, Thermoplastic Reflective Pavement Marking .....	157.29	
For 60 mils Thick, Deduct	-8.51	
For 125 mils Thick, Add	10.94	
32 17 23 33-0034 EA 24' Arrow, Type V, Thermoplastic Reflective Pavement Marking .....	346.04	
For 60 mils Thick, Deduct	-18.72	
For 125 mils Thick, Add	24.06	
32 17 23 33-0035 EA 18' Arrow, Type VI, Thermoplastic Reflective Pavement Marking .....	440.42	
For 60 mils Thick, Deduct	-23.82	
For 125 mils Thick, Add	30.63	
32 17 23 33-0036 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, Thermoplastic Reflective Pavement Marking .....	283.14	
For 60 mils Thick, Deduct	-15.31	
For 125 mils Thick, Add	19.69	
32 17 23 33-0037 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Thermoplastic Reflective Pavement Marking .....	377.51	
For 60 mils Thick, Deduct	-20.42	
For 125 mils Thick, Add	26.25	
32 17 23 33-0038 EA 5' Arrow, Bike Lane, Thermoplastic Reflective Pavement Marking .....	73.41	
For 60 mils Thick, Deduct	-3.97	
For 125 mils Thick, Add	5.11	
<b>32 17 23 33-0039 Thermoplastic Reflective Pavement Striping By Hand For Repairs</b> <small>(32 17 23 33-0001)</small> .....	2.75	
LF Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	2.75	
For 60 mils Thick, Deduct	-0.16	
For 125 mils Thick, Add	0.20	
32 17 23 33-0041 LF Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	3.46	
For 60 mils Thick, Deduct	-0.24	
For 125 mils Thick, Add	0.31	
32 17 23 33-0042 LF Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	4.26	
For 60 mils Thick, Deduct	-0.32	
For 125 mils Thick, Add	0.41	
32 17 23 33-0043 LF Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	6.11	
For 60 mils Thick, Deduct	-0.48	
For 125 mils Thick, Add	0.61	
32 17 23 33-0044 LF Single 24" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	10.94	
For 60 mils Thick, Deduct	-0.95	
For 125 mils Thick, Add	1.22	
<b>32 17 23 33-0045 Preformed, Patterned Reflective Pavement Marking Tape</b> <small>(32 17 23 33-0001)</small> .....		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0046 LF Single 4" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping .....	2.47	
For Up To 5,000 LF, Add	0.49	
For >25,000 LF, Deduct	-0.37	
32 17 23 33-0047 LF Single 6" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping .....	3.67	
For Up To 5,000 LF, Add	0.73	
For >25,000 LF, Deduct	-0.55	
32 17 23 33-0048 LF Single 8" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping .....	4.87	
For Up To 5,000 LF, Add	0.97	
For >25,000 LF, Deduct	-0.73	
32 17 23 33-0049 LF Single 12" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping .....	7.23	
For Up To 5,000 LF, Add	1.45	
For >25,000 LF, Deduct	-1.08	
32 17 23 33-0050 SF Preformed Solid Area, Patterned Thermoplastic Reflective Pavement Marking Tape .....	20.70	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 33-0051 EA 6" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	30.68	
For <10, Add	1.07	
For >50 To 100, Deduct	-0.54	
For >100 To 200, Deduct	-0.72	
For >200, Deduct	-1.43	
32 17 23 33-0052 EA 12" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	53.84	
For <10, Add	1.36	
For >50 To 100, Deduct	-0.68	
For >100 To 200, Deduct	-0.91	
For >200, Deduct	-1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0053 EA 24" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	92.72	
For <10, Add	2.70	
For >50 To 100, Deduct	-1.35	
For >100 To 200, Deduct	-1.80	
For >200, Deduct	-3.60	
32 17 23 33-0054 EA 36" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	134.75	
For <10, Add	5.39	
For >50 To 100, Deduct	-2.70	
For >100 To 200, Deduct	-3.60	
For >200, Deduct	-7.19	
32 17 23 33-0055 EA 48" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	157.78	
For <10, Add	6.05	
For >50 To 100, Deduct	-3.02	
For >100 To 200, Deduct	-4.03	
For >200, Deduct	-8.07	
32 17 23 33-0056 EA 72" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	203.77	
For <10, Add	10.76	
For >50 To 100, Deduct	-5.38	
For >100 To 200, Deduct	-7.18	
For >200, Deduct	-14.35	
32 17 23 33-0057 EA 96" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	260.25	
For <10, Add	14.46	
For >50 To 100, Deduct	-7.23	
For >100 To 200, Deduct	-9.64	
For >200, Deduct	-19.27	
32 17 23 33-0058 EA 120" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape .....	326.10	
For <10, Add	17.91	
For >50 To 100, Deduct	-8.96	
For >100 To 200, Deduct	-11.94	
For >200, Deduct	-23.88	
32 17 23 33-0059 SF Preformed Arrow, Patterned Thermoplastic Reflective Pavement Marking Tape .....	21.40	
32 17 23 33-0060 SF Preformed Symbol, Patterned Thermoplastic Reflective Pavement Marking Tape .....	22.70	
Note: Handicap, railroad, diamond symbol, etc.		
<b>32 17 23 33-0061</b> <b>Preformed, Thermoplastic Reflective Pavement Marking</b> <small>(32 17 23 33-0001)</small>		
Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0062 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	156.93	
Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0063 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	413.03	
Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0064 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	96.74	
Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0065 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	87.88	
Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0066 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	146.97	
Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0067 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	97.15	
Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0068 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	160.39	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0069 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	255.84	
Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0070 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	370.81	
Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0071 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	155.53	
Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0072 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	168.95	
Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0073 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	285.52	
Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0074 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	265.45	
Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0075 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	268.06	
Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0076 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....	350.24	
Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
<b>32 17 23 33-0077</b> <b>Pavement Marking (Monterey County)</b> <small>(32 17 23 33-0001)</small>		
32 17 23 33-0078 SF Thermoplastic Pavement Marking (Monterey County) .....	8.07	
<b>32 17 23 33-0079</b> <b>Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas</b>		
<small>(32 17 23 33)</small>		
<b>32 17 23 33-0080</b> <b>Thermoplastic Pavement Marking Tape For Parking Areas</b> <small>(32 17 23 33-0079)</small>		
Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas .....	59.74	
Note: White or blue symbol. Excludes striping.		
32 17 23 33-0082 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas .....	189.05	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0083	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... Note: White symbol on blue background. Excludes striping.	114.15	
32 17 23 33-0084	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... Note: White symbol on blue background. Excludes striping.	134.87	
32 17 23 33-0085	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... Note: White symbol on blue background. Excludes striping.	140.98	
<b>32 17 26 Tactile Warning Surfaces (32 17)</b>				
<b>32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26)</b>				
Note: Truncated dome, raised strips or directional bars. All colors.				
32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface ..... Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	50.76	8.83
32 17 26 00-0003	SF	Embedded, VPC Truncated Dome Detectable Warning Surface ..... Note: Also raised strips or directional bars. All colors.	39.28	8.83
32 17 26 00-0004	EA	30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset .....	287.47	
32 17 26 00-0005	LF	24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete .....	67.96	17.66
<b>32 17 26 00-0006 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SateyStep TD) (32 17 26)</b>				
Note: Pre-molded tactile dome sheet. All colors.				
32 17 26 00-0007	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)..... Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	56.37	8.83
32 17 26 00-0008	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)..... Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	48.42	8.83
<b>32 18 Athletic And Recreational Surfacing (32 10)</b>				
<b>32 18 16 Synthetic Resilient Surfacing (32 18)</b>				
<b>32 18 16 13 Playground Protective Surfacing (32 18 16)</b>				
<b>32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13)</b>				
Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.				
32 18 16 13-0002	SF	1-3/4" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	13.84 0.70 1.57 1.60 1.50	2.00
32 18 16 13-0003	SF	2" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	14.22 0.70 1.57 1.68 1.50	2.13
32 18 16 13-0004	SF	2-1/4" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	14.97 0.70 1.57 1.83 1.50	2.37
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	15.72 0.70 1.57 1.98 1.50	2.63
32 18 16 13-0006	SF	2-3/4" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	17.49 0.53 1.77 2.13 1.50	2.88
32 18 16 13-0007	SF	3" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	18.32 0.53 1.77 2.29 1.50	3.15
32 18 16 13-0008	SF	3-1/4" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	19.19 0.53 1.77 2.47 1.50	3.44
32 18 16 13-0009	SF	3-1/2" Thick, Resilient Rubber Tile ..... For Manufacturer's Standard Colors, Add For Interlocking Tiles, Add For Mechanically Fastened, Add For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	21.00 0.30 1.97 2.63 1.50	3.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile.....	21.75	3.99
<i>For Manufacturer's Standard Colors, Add</i>	0.30	
<i>For Interlocking Tiles, Add</i>	1.97	
<i>For Mechanically Fastened, Add</i>	2.78	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile.....	22.58	4.21
<i>For Manufacturer's Standard Colors, Add</i>	0.30	
<i>For Interlocking Tiles, Add</i>	1.97	
<i>For Mechanically Fastened, Add</i>	2.94	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile.....	25.86	4.74
<i>For Manufacturer's Standard Colors, Add</i>	0.29	
<i>For Interlocking Tiles, Add</i>	2.32	
<i>For Mechanically Fastened, Add</i>	3.26	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
<b>32 18 16 13-0013 Loose Laid Playground Surface Material <small>(32 18 16 13)</small></b>		
Note: Excludes sub base.		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Surface .....	1.28	0.30
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Surface .....	1.68	0.38
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Surface .....	2.11	0.45
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Surface .....	3.00	0.68
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Surface .....	2.56	0.30
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Surface .....	3.16	0.38
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Surface .....	5.00	0.45
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Surface .....	6.16	0.68
32 18 16 13-0022 SF 8" FIBAR System .....	10.53	1.13
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023 SF 12" FIBAR System .....	13.33	1.50
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
<b>32 18 16 13-0024 Poured In Place Playground Surfacing <small>(32 18 16 13)</small></b>		
Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025 SF Up To 4' Critical Fall Height (1-3/4") Poured In Place Rubber Playground Surfacing .....	12.31	2.30
<i>For Up To 2,000, Add</i>	2.94	
<i>For &gt;2,000 To 3,000, Add</i>	2.06	
<i>For &gt;3,000 To 4,000, Add</i>	1.39	
<i>For &gt;4,000 To 5,000, Add</i>	0.89	
<i>For &gt;5,000 To 7,000, Add</i>	0.36	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	
32 18 16 13-0026 SF 5' Critical Fall Height (2") Poured In Place Rubber Playground Surfacing .....	12.70	2.55
<i>For Up To 2,000, Add</i>	3.03	
<i>For &gt;2,000 To 3,000, Add</i>	2.12	
<i>For &gt;3,000 To 4,000, Add</i>	1.44	
<i>For &gt;4,000 To 5,000, Add</i>	0.91	
<i>For &gt;5,000 To 7,000, Add</i>	0.38	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	
32 18 16 13-0027 SF 6' Critical Fall Height (2-1/2") Poured In Place Rubber Playground Surfacing .....	13.71	2.91
<i>For Up To 2,000, Add</i>	3.27	
<i>For &gt;2,000 To 3,000, Add</i>	2.29	
<i>For &gt;3,000 To 4,000, Add</i>	1.55	
<i>For &gt;4,000 To 5,000, Add</i>	0.99	
<i>For &gt;5,000 To 7,000, Add</i>	0.41	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	
32 18 16 13-0028 SF 7' Critical Fall Height (3") Poured In Place Rubber Playground Surfacing .....	14.82	3.10
<i>For Up To 2,000, Add</i>	3.54	
<i>For &gt;2,000 To 3,000, Add</i>	2.48	
<i>For &gt;3,000 To 4,000, Add</i>	1.68	
<i>For &gt;4,000 To 5,000, Add</i>	1.07	
<i>For &gt;5,000 To 7,000, Add</i>	0.44	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	
32 18 16 13-0029 SF 8' Critical Fall Height (3-1/2") Poured In Place Rubber Playground Surfacing .....	15.91	3.25
<i>For Up To 2,000, Add</i>	3.80	
<i>For &gt;2,000 To 3,000, Add</i>	2.66	
<i>For &gt;3,000 To 4,000, Add</i>	1.80	
<i>For &gt;4,000 To 5,000, Add</i>	1.15	
<i>For &gt;5,000 To 7,000, Add</i>	0.47	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	
32 18 16 13-0030 SF 9' Critical Fall Height (4") Poured In Place Rubber Playground Surfacing .....	16.84	3.44
<i>For Up To 2,000, Add</i>	4.02	
<i>For &gt;2,000 To 3,000, Add</i>	2.81	
<i>For &gt;3,000 To 4,000, Add</i>	1.90	
<i>For &gt;4,000 To 5,000, Add</i>	1.21	
<i>For &gt;5,000 To 7,000, Add</i>	0.50	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.45	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.34	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0031 SF 10' Critical Fall Height (4-1/2") Poured In Place Rubber Playground Surfacing .....	17.94	3.63
For Up To 2,000, Add	4.28	
For >2,000 To 3,000, Add	3.00	
For >3,000 To 4,000, Add	2.03	
For >4,000 To 5,000, Add	1.29	
For >5,000 To 7,000, Add	0.53	
For Aliphatic (Non Yellowing) Binder, Add	2.45	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.34	
32 18 16 13-0032 SF 12' Critical Fall Height (5-1/2") Poured In Place Rubber Playground Surfacing .....	20.11	4.07
For Up To 2,000, Add	4.80	
For >2,000 To 3,000, Add	3.36	
For >3,000 To 4,000, Add	2.27	
For >4,000 To 5,000, Add	1.45	
For >5,000 To 7,000, Add	0.59	
For Aliphatic (Non Yellowing) Binder, Add	2.45	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.34	
32 18 16 13-0033 SF Top Only (1/2") Poured In Place Playground Surfacing .....	8.05	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	2.95	
For >2,000 To 3,000, Add	1.89	
For >3,000 To 4,000, Add	1.14	
For >4,000 To 5,000, Add	0.69	
For >5,000 To 7,000, Add	0.31	
For Aliphatic (Non Yellowing) Binder, Add	2.45	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.34	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	2,260.37	
<b>32 18 16 13-0035 Synthetic Playground Turf (Sporturf) (32 18 16 13)</b>		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929) .....	6.62	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906).....	5.89	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf) .....	3.87	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf) .....	42.79	
<b>32 18 23 Athletic Surfacing (32 18)</b>		
<b>32 18 23 13 Baseball Field Surfacing (32 18 23)</b>		
<b>32 18 23 13-0001 Clay Infield Maintenance (32 18 23 13)</b>		
32 18 23 13-0002 MSF Playing Field Maintenance (Clay - Nail Drag) .....	9.76	
32 18 23 13-0003 MSF Playing Field Maintenance (Clay - Screen Drag) .....	9.76	
32 18 23 13-0004 CY Playing Field Maintenance Of Clay .....	75.76	
32 18 23 13-0005 Ton Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix).....	115.53	
<b>32 18 23 23 Field Sport Surfacing (32 18 23)</b>		
<b>32 18 23 23-0001 Turf Field Maintenance (32 18 23 23)</b>		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	131.37	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand.....	12.35	
32 18 23 23-0004 BAG Envirofill, 50 LB Bag.....	90.80	
<b>32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)</b>		
<b>32 18 23 29-0001 Synthetic Turf (32 18 23 29)</b>		
<b>32 18 23 29-0002 Synthetic Turf (AstroTurf) (32 18 23 29-0001)</b>		
Note: Includes labor, equipment and material required to install the task.		
<b>32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)</b>		
<b>32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)</b>		
32 18 23 29-0005 SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38) .....	4.45	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006 EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields .....	15,739.73	
32 18 23 29-0007 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields .....	12,829.36	
32 18 23 29-0008 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields .....	3,860.69	
Note: Per sport.		
32 18 23 29-0009 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields.....	1,425.48	
Note: Per letter. Excludes outline.		
32 18 23 29-0010 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields .....	1,366.09	
Note: Per endzone.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0011 EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields..... Note: Block letter.	11,879.04	
32 18 23 29-0012 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields ..... Note: Graphic.	17,224.61	
<b>32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)</b>		
32 18 23 29-0014 SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41) .....	5.07	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.26	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0015 EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields .....	16,036.80	
32 18 23 29-0016 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields .....	13,304.60	
32 18 23 29-0017 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields..... Note: Per sport.	4,157.69	
32 18 23 29-0018 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields .....	1,544.28	
Note: Per letter. Excludes outline.		
32 18 23 29-0019 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields.....	1,425.49	
Note: Per endzone.		
32 18 23 29-0020 EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields.....	12,473.07	
Note: Block letter.		
32 18 23 29-0021 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields .....	18,085.95	
Note: Graphic.		
<b>32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)</b>		
32 18 23 29-0023 SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45) .....	5.20	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.26	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0024 EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields .....	16,333.78	
32 18 23 29-0025 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields .....	14,373.72	
32 18 23 29-0026 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields..... Note: Per sport.	4,454.67	
32 18 23 29-0027 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields .....	1,663.08	
Note: Per letter. Excludes outline.		
32 18 23 29-0028 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields.....	1,484.89	
Note: Per endzone.		
32 18 23 29-0029 EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	13,067.02	
Note: Block letter.		
32 18 23 29-0030 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields .....	18,947.18	
Note: Graphic.		
<b>32 18 23 29-0031 Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)</b>		
<b>32 18 23 29-0032 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)</b>		
32 18 23 29-0033 SF 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52).....	6.04	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.20	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0034 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	16,927.63	
32 18 23 29-0035 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	18,056.14	
32 18 23 29-0036 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per sport.	5,048.59	
32 18 23 29-0037 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	1,900.65	
Note: Per letter. Excludes outline.		
32 18 23 29-0038 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	1,603.67	
Note: Per endzone.		
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	14,254.85	
Note: Block letter.		
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	20,669.53	
Note: Graphic.		
<b>32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)</b>		

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0042	SF	60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60).....	6.31	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0043	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	17,224.61	
32 18 23 29-0044	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	20,075.58	
32 18 23 29-0045	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	5,345.57	
		Note: Per sport.		
32 18 23 29-0046	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	2,019.44	
		Note: Per letter. Excludes outline.		
32 18 23 29-0047	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	1,663.07	
		Note: Per endzone.		
32 18 23 29-0048	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	14,848.80	
		Note: Block letter.		
32 18 23 29-0049	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	21,530.76	
		Note: Graphic.		
<b>32 18 23 29-0050</b>		<b>52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52)</b> <small>(32 18 23 29-0031)</small>		
32 18 23 29-0051	SF	52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52) .....	6.33	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0052	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	17,521.58	
32 18 23 29-0053	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	20,194.37	
32 18 23 29-0054	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	5,642.54	
		Note: Per sport.		
32 18 23 29-0055	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields .....	2,138.23	
		Note: Per letter. Excludes outline.		
32 18 23 29-0056	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields .....	1,722.46	
		Note: Per endzone.		
32 18 23 29-0057	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields .....	15,442.75	
		Note: Block letter.		
32 18 23 29-0058	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields .....	22,391.99	
		Note: Graphic.		
<b>32 18 23 29-0059</b>		<b>60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60)</b> <small>(32 18 23 29-0031)</small>		
32 18 23 29-0060	SF	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60) .....	6.48	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0061	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	17,818.56	
32 18 23 29-0062	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	21,501.06	
32 18 23 29-0063	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	5,939.52	
		Note: Per sport.		
32 18 23 29-0064	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields .....	2,375.81	
		Note: Per letter. Excludes outline.		
32 18 23 29-0065	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields .....	1,781.86	
		Note: Per endzone.		
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields .....	16,036.70	
		Note: Block letter.		
32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields .....	23,253.22	
		Note: Graphic.		
<b>32 18 23 29-0068</b>		<b>Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe)</b> <small>(32 18 23 29-0002)</small>		
<b>32 18 23 29-0069</b>		<b>38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38)</b> <small>(32 18 23 29-0068)</small>		
32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	4.80	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	15,145.87	
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	11,166.36	
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields .....	3,266.76	
		Note: Per sport.		
32 18 23 29-0074	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,187.91	
		Note: Per letter. Excludes outline.		
32 18 23 29-0075	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields .....	1,247.31	
		Note: Per endzone.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0076 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Block letter.	10,691.20	
32 18 23 29-0077 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Graphic.	15,502.24	
<b>32 18 23 29-0078 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)</b>		
32 18 23 29-0079 SF 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	4.26	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.26	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0080 EA Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	15,442.75	
32 18 23 29-0081 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	11,879.04	
32 18 23 29-0082 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per sport.	3,563.71	
32 18 23 29-0083 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per letter. Excludes outline.	1,306.69	
32 18 23 29-0084 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per endzone.	1,306.69	
32 18 23 29-0085 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Block letter.	11,285.09	
32 18 23 29-0086 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Graphic.	16,363.38	
<b>32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)</b>		
32 18 23 29-0088 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	9.99	
32 18 23 29-0089 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	8.78	
32 18 23 29-0090 EA Football Markings For AstroTurf® PureGrass® Fields.....	29,307.66	
32 18 23 29-0091 EA Baseball Markings For AstroTurf® PureGrass® Fields.....	34,818.50	
32 18 23 29-0092 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields..... Note: Per sport.	8,516.76	
32 18 23 29-0093 EA Endzone Lettering For AstroTurf® PureGrass® Fields..... Note: Per letter. Excludes outline.	3,256.41	
32 18 23 29-0094 EA Colored Endzone For AstroTurf® PureGrass® Fields..... Note: Per endzone.	2,417.13	
32 18 23 29-0095 EA Simple Logo For AstroTurf® PureGrass® Fields..... Note: Block letter.	21,754.14	
32 18 23 29-0096 EA Deluxe Logo For AstroTurf® PureGrass® Fields..... Note: Graphic.	31,937.83	
<b>32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001)</b>		
Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098 SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf).....	6.30	
Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.		
<i>For &gt;35,000, Deduct</i>	-0.58	
32 18 23 29-0099 SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf).....	6.24	
Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.		
<i>For &gt;35,000, Deduct</i>	-0.58	
32 18 23 29-0100 SF 1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	6.50	
Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf..... Note: Includes field grid, numbers, arrows, coach's box and kick off lines.	40,514.32	
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf.....	17,556.20	
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf.....	17,556.20	
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf.....	17,556.20	
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf.....	17,556.20	
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf..... Note: Priced per letter. Includes single color outlining.	2,025.72	
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	1.90	
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	4.95	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	1.41	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	0.71	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	1.17	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf..... Note: Includes a comprehensive report.	1,350.48	
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf.....	13,504.77	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf..... Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.44	
<i>For &gt;10,000 To 30,000, Deduct</i>	-0.18	
<i>For &gt;30,000 To 60,000, Deduct</i>	-0.31	
<i>For &gt;60,000, Deduct</i>	-0.34	

**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0115	SF	Rejuvenate Synthetic Turf And Reinstall Existing Infill ..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	3.03	
32 18 23 29-0116	SF	Rejuvenate Synthetic Turf For Installation Of New Infill ..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	3.36	
32 18 23 29-0117	SF	Drainage Layer For G9 Synthetic Turf ..... Note: Used for drainage over asphalt or on roof tops.	2.76	
32 18 23 29-0118	SF	15 mm, Shock Pad For G9 Synthetic Turf..... Note: Used for additional Gmax for a stone base field.	1.70	
32 18 23 29-0119	EA	Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Includes field inspection and report.	2,691.40	
32 18 23 29-0120	LF	Repair Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	7.40	
32 18 23 29-0121	LF	Nailer Used To Attach G9 Synthetic Turf .....	2.96	
32 18 23 29-0122	SF	Removal And Recycling Of Existing Field ..... Note: Includes removal, shipping and recycling of infill, fibers and backing.	2.09	
<b>32 18 23 33 Running Track Surfacing (32 18 23)</b>				
32 18 23 33-0001		<b>Running Track Surfacing (32 18 23 33)</b>		
32 18 23 33-0002	SY	2-1/2" Asphaltic Concrete Running Track Surfacing .....	28.03	
<b>32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)</b>				
32 18 23 33-0004	SY	1 Seal Coat, Striping Of Track ..... Note: Includes certification.	16.56	
<b>32 18 23 39 Synthetic Running Track Surfacing (32 18 23)</b>				
32 18 23 39-0001		<b>Synthetic Running Track Surfacing (XPLODE™) (32 18 23 39)</b>		
Note: Excludes asphalt base. Includes striping.				
32 18 23 39-0002	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100) .....	42.35	5.62
		For >5,500, Deduct	-4.66	
		For Up To 4,000, Add	14.82	
32 18 23 39-0003	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200) .....	56.84	5.62
		For >5,500, Deduct	-6.25	
		For Up To 4,000, Add	19.89	
		For Custom Color Upgrade, Add	5.40	
		For Aliphatic Top Coating, Add	10.23	
32 18 23 39-0004	SY	Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	95.52	5.62
		For >5,500, Deduct	-5.73	
		For Up To 4,000, Add	33.43	
		For Custom Color Upgrade, Add	7.36	
		For Aliphatic Top Coating, Add	13.66	
32 18 23 39-0005	SY	Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	123.39	5.62
		For >5,500, Deduct	-7.40	
		For Up To 4,000, Add	43.19	
		For Custom Color Upgrade, Add	9.62	
		For Aliphatic Top Coating, Add	14.07	
32 18 23 39-0006	SY	Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning).....	38.58	
		For >5,500, Deduct	-4.24	
		For Up To 4,000, Add	13.50	
32 18 23 39-0007	SY	Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	43.42	
		For >5,500, Deduct	-6.30	
		For Up To 4,000, Add	15.20	
32 18 23 39-0008	SY	Spray Retop XPLODE™ M100/MS200 Running Tracks .....	38.14	
		For Up To 4,000, Add	13.35	
		For >5,500, Deduct	-3.73	
32 18 23 39-0009	SY	Sandwich Retop XPLODE™ MSX500 Running Tracks .....	73.83	
		For Up To 4,000, Add	25.84	
		For >5,500, Deduct	-7.78	
32 18 23 39-0010	SY	Retop XPLODE™ Plexitrac® Lightning Running Tracks..... Note: Two layers.	21.47	
		For Up To 4,000, Add	7.51	
		For >5,500, Deduct	-3.55	
32 18 23 39-0011	SY	Retop XPLODE™ Plexitrac® Accelerator Running Tracks .....	26.15	
		Note: Two layers.		
		For Up To 4,000, Add	9.15	
		For >5,500, Deduct	-3.55	
32 18 23 39-0012	EA	Restripe XPLODE™ Running Track .....	8,877.00	
		Note: Includes two coats of acrylic resurfacer and two coats of color. For College Track Restriping, Add	1,614.00	



<b>Exterior Improvements</b>		<b>32</b>
<b>Bases, Ballasts, And Paving</b>		<b>32 10</b>
<b>Athletic And Recreational Surfacing</b>		<b>32 18</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 18 23 53 Tennis Court Surfacing</b> <small>(32 18 23)</small>		
32 18 23 53-0001 Tennis Court Surfacing <small>(32 18 23 53)</small> See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002 SY Tennis Court Bituminous Pavement, 2-1/2" Thick	29.56	
<b>32 18 23 53-0003 Tennis Court Markings</b> <small>(32 18 23 53)</small>		
32 18 23 53-0004 EA Paint Markings On Asphalt Tennis Court 2 Coats	451.40	
<b>32 18 23 56 Natural Tennis Court Surfacing</b> <small>(32 18 23)</small>		
32 18 23 56-0001 SY Clay Tennis Court	41.88	
32 18 23 56-0002 SY Tennis Court, Pulverized Natural Greenstone, Fast Dry Note: Includes 4" base.	46.58	
32 18 23 56-0003 SY Tennis Court, Rubber-Cork Base Resilient Pavement	16.32	
32 18 23 56-0004 SY Resurface Clay Tennis Court	12.18	
32 18 23 56-0005 SY Resurface Tennis Court, Pulverized Natural Greenstone	10.34	
32 18 23 56-0006 SY Resurface Tennis Court, Resilient Pavement	6.53	
<b>32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing</b> <small>(32 18 23)</small>		
32 18 23 61-0001 100% Acrylic Athletic Surfacing System (Plexipave®) <small>(32 18 23 61)</small> Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002 Surface Preparation For Athletic Surfacing System (Plexipave®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0003 SY 100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.30	
32 18 23 61-0004 SY Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat Note: For previously uncoated portland cement concrete. Applied with broom.	0.70	
32 18 23 61-0005 SY Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.	1.82	
32 18 23 61-0006 SY Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	73.74	
32 18 23 61-0007 Surface Coatings For Athletic Surfacing System (Plexipave®) <small>(32 18 23 61-0001)</small> Note: Standard colors include dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.62	
<i>For Pacific Blue, Add</i>	0.14	
<i>For US Open Blue, Add</i>	0.50	
32 18 23 61-0009 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.14	
<i>For Pacific Blue, Add</i>	0.10	
<i>For US Open Blue, Add</i>	0.36	
32 18 23 61-0010 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	1.87	
<i>For Pacific Blue, Add</i>	0.08	
<i>For US Open Blue, Add</i>	0.28	
32 18 23 61-0011 SY Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	1.97	
<i>For Pacific Blue, Add</i>	0.05	
<i>For US Open Or Australian Open Blue, Add</i>	0.32	
<i>For Pro Purple, Add</i>	0.84	
32 18 23 61-0012 Line Striping For Athletic Surfacing System (Plexipave®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0013 SY Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®) Note: Textured or non-textured highly reflective line marking paint.	1.25	
32 18 23 61-0014 Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0015 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	4.29	
32 18 23 61-0016 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	5.86	



**32 Exterior Improvements****32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0017 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat ..... Note: Price per coat for third or additional coats. Applied with rubber squeegee.	5.03	
32 18 23 61-0018 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat ..... Note: Applied with rubber squeegee.	3.77	
32 18 23 61-0019 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat ..... Note: Price per coat for second or additional coats. Applied with rubber squeegee.	2.87	
<b>32 18 23 61-0020 Resurface Athletic Court</b> <small>(32 18 23 61)</small> Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021 SY Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster).....	1.89	

**32 30 Site Improvements** (32)**32 31 Fences And Gates** (32 30)**32 31 11 Gate Operators** (32 31)**32 31 11 00-0001 Gate Operators** (32 31 11)

Note: Excludes gates, electrical connections, access controls and concrete foundation.

**32 31 11 00-0002 Swing Gate Actuator (DKS™ DoorKing®)** (32 31 11 00-0001)**32 31 11 00-0003 Single Gate, Swing Gate Actuator** (32 31 11 00-0002)

32 31 11 00-0004 EA Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	1,406.78	184.21
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Note: Includes one primary operator with a 10' wide gate capacity.

32 31 11 00-0005 EA Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002).....	1,856.74	184.21
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Note: Includes one primary operator with a 14' wide gate capacity.

**32 31 11 00-0006 Dual Gate, Swing Gate Actuator** (32 31 11 00-0002)

32 31 11 00-0007 EA Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	2,813.55	368.43
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Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.

32 31 11 00-0008 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002).....	3,713.46	368.43
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Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.

**32 31 11 00-0009 Swing Gate Operators (DKS™ DoorKing®)** (32 31 11 00-0001)**32 31 11 00-0010 Single Gate, Swing Gate Operators** (32 31 11 00-0009)

32 31 11 00-0011 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	2,814.33	184.21
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Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.

32 31 11 00-0012 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	3,056.61	184.21
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Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.

32 31 11 00-0013 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	4,129.57	184.21
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Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.

32 31 11 00-0014 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	4,671.82	184.21
<i>For 208/230/460 Volt AC, Add</i>	322.50	

Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.

*For 208/230/460 Volt AC, Add*

322.50

**32 31 11 00-0015 Dual Gate, Swing Gate Operators** (32 31 11 00-0009)

32 31 11 00-0016 EA 400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	4,994.10	368.43
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Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.

32 31 11 00-0017 EA 500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	5,478.66	368.43
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Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.

32 31 11 00-0018 EA 700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	7,613.05	368.43
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Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.

32 31 11 00-0019 EA 800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	8,801.39	368.43
<i>For 208/230/460 Volt AC, Add</i>	322.50	

Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.

*For 208/230/460 Volt AC, Add*

322.50

**32 31 11 00-0020 Sliding Gate Operators (DKS™ DoorKing®)** (32 31 11 00-0001)

Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.

32 31 11 00-0021 EA 300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	2,272.08	184.21
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Note: Includes operator, chain brackets, hardware and 20' of #41 chain.



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0022 EA 1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	3,211.05	221.05
Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023 EA 1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	4,018.66	221.05
Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0024 EA 3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	5,274.91	257.90
Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0025 EA 2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	6,520.93	257.90
Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	8,948.22	294.74
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0027 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	15,126.42	294.74
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028 EA 10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	25,791.30	331.58
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
<b>32 31 11 00-0029 Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)</b>		
32 31 11 00-0030 EA Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	488.07	
32 31 11 00-0031 EA Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	951.90	
32 31 11 00-0032 EA Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	608.86	
32 31 11 00-0033 EA Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	671.00	
32 31 11 00-0034 EA Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	601.78	
32 31 11 00-0035 EA Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	434.49	
32 31 11 00-0036 LF #40 Chain For Sliding Gate Operators.....	8.23	
32 31 11 00-0037 LF #41 Chain For Sliding Gate Operators.....	6.50	
32 31 11 00-0038 LF #50 Chain For Sliding Gate Operators.....	9.19	
32 31 11 00-0039 LF #60 Chain For Sliding Gate Operators.....	8.71	
32 31 11 00-0040 EA Exterior Keypad Gate Operator (Linear AK-11).....	497.78	127.34
<b>32 31 11 00-0041 Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)</b>		
32 31 11 00-0042 EA Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	2,122.11	221.05
Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	139.00	
For Plug-In Loop Detector Option (Liftmaster LOOPDELM), Add	99.50	
For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	49.00	
For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	196.95	
For Each Additional 10' Chain, Add	29.50	
<b>32 31 13 Chain Link Fences And Gates (32 31)</b>		
<b>32 31 13 13 Chain Link Fences And Gates (32 31 13)</b>		
<b>32 31 13 13-0001 Post Holes (32 31 13 13)</b>		
Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.		
<b>32 31 13 13-0002 Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)</b>		
32 31 13 13-0003 VLF Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	7.75	
32 31 13 13-0004 VLF 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	8.73	
32 31 13 13-0005 VLF 3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.34	
32 31 13 13-0006 VLF 4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	11.63	
32 31 13 13-0007 VLF 6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	12.69	
32 31 13 13-0008 VLF 8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	13.95	
32 31 13 13-0009 VLF 10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.51	
32 31 13 13-0010 VLF 12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	17.44	
32 31 13 13-0011 VLF 18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	19.94	
32 31 13 13-0012 VLF 24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	23.26	
32 31 13 13-0013 VLF 30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	27.91	
32 31 13 13-0014 VLF 36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	34.89	
<b>32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)</b>		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	60.18	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	17.12	
<b>32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)</b>		
See CSI section 03 21 00 00-0000 for reinforcing steel.		
<b>32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)</b>		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	5.19	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.65	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole .....	7.36	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole .....	8.55	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole .....	12.12	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole .....	16.17	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole .....	19.81	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole .....	23.16	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole .....	31.81	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole .....	39.72	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole .....	47.45	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole .....	55.53	
<b>32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)</b>		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole .....	6.07	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole .....	7.81	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole .....	8.55	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole .....	9.70	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole .....	13.60	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole .....	18.15	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole .....	22.15	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole .....	25.77	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole .....	34.75	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole .....	42.74	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole .....	50.52	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole .....	58.53	
<b>32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)</b>		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole .....	4.09	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole .....	5.34	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole .....	5.59	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole .....	5.75	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole .....	7.67	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole .....	10.23	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole .....	12.27	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole .....	13.92	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole .....	16.97	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole .....	19.03	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole .....	20.87	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole .....	22.51	
<b>32 31 13 13-0058 Fence Posts (32 31 13 13)</b>		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
<b>32 31 13 13-0059 Fence Posts (32 31 13 13-0058)</b>		
<b>32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)</b>		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	13.28	2.66
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	12.53	2.26
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	11.60	1.87
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	10.87	1.47
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	10.38	1.27
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length .....	9.60	0.89
For Each Top Rail Fitting, Add	0.85	
<b>32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)</b>		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0068 LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	9.34	2.46
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.62	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0069 LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	8.58	2.06
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.54	
32 31 13 13-0070 LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	7.74	1.67
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.46	
32 31 13 13-0071 LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	7.09	1.27
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.39	
32 31 13 13-0072 LF 21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	6.64	1.08
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.35	
32 31 13 13-0073 LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	6.17	0.89
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.11	
For Vinyl Coated, Add	2.66	
For Powder Coated, Add	3.54	
For Aluminum Coated, Add	5.54	
For Schedule 20, Deduct	-0.89	
For Schedule 80, Add	2.30	
<b>32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)</b>		
Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075 LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	10.50	2.56
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	3.11	
32 31 13 13-0076 LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	9.80	2.16
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	3.04	
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	8.92	1.77
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	2.95	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	8.22	1.37
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	2.88	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	7.75	1.18
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	2.83	
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length .....	7.31	0.98
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.35	
For Vinyl Coated, Add	3.25	
For Powder Coated, Add	4.33	
For Aluminum Coated, Add	6.76	
For Schedule 20, Deduct	-1.08	
For Schedule 80, Add	2.79	
<b>32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)</b>		
Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	12.55	2.75
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.99	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	11.80	2.35
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.91	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	10.87	1.87
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.82	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	10.14	1.47
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.75	
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length .....	9.65	1.27
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.70	





<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	9.18	0.98
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.80	
For Vinyl Coated, Add	4.31	
For Powder Coated, Add	5.75	
For Aluminum Coated, Add	8.99	
For Schedule 20, Deduct	-1.44	
For Schedule 80, Add	3.65	
<b>32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)</b>		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	16.65	2.95
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.75	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	15.84	2.56
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.67	
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	14.84	2.06
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.57	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	14.02	1.67
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.49	
32 31 13 13-0093 LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	13.48	1.37
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.43	
32 31 13 13-0094 LF 3" Outside Diameter Galvanized Steel Post, >24' In Length.....	12.96	1.08
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
For Vinyl Coated, Add	6.45	
For Powder Coated, Add	8.60	
For Aluminum Coated, Add	13.44	
For Schedule 20, Deduct	-2.15	
For Schedule 80, Add	5.38	

**32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0059)**  
 Note: 4" outside diameter, Schedule 40. Includes cap and accessories.

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0096 LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	23.68	3.14
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	9.01	
32 31 13 13-0097 LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	22.64	2.56
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	8.90	
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	21.78	2.16
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	8.82	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	20.92	1.77
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	8.73	
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	20.91	1.77
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	8.73	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length .....	19.93	1.27
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.37	
For Vinyl Coated, Add	10.48	
For Powder Coated, Add	13.98	
For Aluminum Coated, Add	21.84	
For Schedule 20, Deduct	-3.49	
For Schedule 80, Add	8.63	
<b>32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)</b>		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	43.94	3.43
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.47	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	42.82	2.85
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.36	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0105 LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	41.83	2.35
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.26	
32 31 13 13-0106 LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	40.87	1.87
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.16	
32 31 13 13-0107 LF 6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	40.31	1.67
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.11	
32 31 13 13-0108 LF 6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length .....	39.77	1.37
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	9.26	
For Vinyl Coated, Add	22.22	
For Powder Coated, Add	29.63	
For Aluminum Coated, Add	46.30	
For Schedule 20, Deduct	-7.41	
For Schedule 80, Add	18.05	
<b>32 31 13 13-0109 Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal)</b> <small>(32 31 13 13-0059)</small>		
Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110 LF 8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	83.56	3.83
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	37.20	
32 31 13 13-0111 LF 8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	82.30	3.24
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	37.07	
32 31 13 13-0112 LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	81.21	2.66
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	36.96	
32 31 13 13-0113 LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	80.11	2.06
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	36.85	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	79.54	1.77
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	36.80	
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length .....	78.93	1.47
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	18.98	
For Vinyl Coated, Add	45.54	
For Powder Coated, Add	60.72	
For Aluminum Coated, Add	94.88	
For Schedule 20, Deduct	-15.18	
For Schedule 80, Add	36.74	
<b>32 31 13 13-0116 Driven Post Supports (32 31 13 13)</b>		
Note: OZ-Post.		
<b>32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)</b>		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	57.33	
Note: OZ-Post GB-700.		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post.....	57.33	
Note: OZ-Post HB-700.		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	58.66	
Note: OZ-Post IS-600.		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	70.73	
Note: OZ-Post ISW-850.		
<b>32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)</b>		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	66.72	
Note: OZ-Post C175-850.		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	64.72	
Note: OZ-Post I2-600.		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	67.12	
Note: OZ-Post I2-850.		
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post.....	70.73	
Note: OZ-Post I25-850.		
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post.....	70.73	
Note: OZ-Post I3-850.		
<b>32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)</b>		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	64.44	
Note: OZ-Post T4-600.		
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	68.72	
Note: OZ-Post T4-850.		
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post.....	73.39	
Note: OZ-Post C4-850.		
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post.....	73.40	
Note: OZ-Post P4-850.		
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post.....	82.08	
Note: OZ-Post T46-850.		
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post.....	88.21	
Note: OZ-Post T6-850.		
<b>32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)</b>		
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	64.44	
Note: OZ-Post T4-600.		
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	68.72	
Note: OZ-Post T4-850.		
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post.....	73.40	
Note: OZ-Post P4-850.		
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post.....	74.46	
Note: OZ-Post P4-850.		
<b>32 31 13 13-0140 Chain Link Fence Assemblies (32 31 13 13)</b>		
<b>32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140)</b>		
Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0670 for barb wire attachments.		



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 31 13 13-0142 Galvanized</b> <small>(32 31 13 13-0141)</small>		
32 31 13 13-0143 LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	26.90	3.34
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.00	
For 13 Gauge Fabric, Deduct	-4.80	
For 11 Gauge Fabric, Deduct	-2.80	
For 6 Gauge Fabric, Add	4.41	
For 1" Mesh Fabric, Add	6.01	
For 1-3/4" Mesh Fabric, Add	2.40	
For 2-1/8" Mesh Fabric, Deduct	-1.20	
For 2-3/8" Mesh Fabric, Deduct	-1.60	
For Posts 8' On Centers, Add	1.50	
For Posts 5' On Centers, Add	5.69	
For Up To 100, Add	5.34	
For >100 To 250, Add	2.00	
For >2,500 To 5,000, Deduct	-1.00	
For >5,000, Deduct	-2.00	
32 31 13 13-0144 LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	27.90	3.34
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.06	
For 13 Gauge Fabric, Deduct	-5.08	
For 11 Gauge Fabric, Deduct	-2.97	
For 6 Gauge Fabric, Add	4.66	
For 1" Mesh Fabric, Add	6.36	
For 1-3/4" Mesh Fabric, Add	2.54	
For 2-1/8" Mesh Fabric, Deduct	-1.27	
For 2-3/8" Mesh Fabric, Deduct	-1.69	
For Posts 8' On Centers, Add	1.55	
For Posts 5' On Centers, Add	5.89	
For Up To 100, Add	5.51	
For >100 To 250, Add	2.06	
For >2,500 To 5,000, Deduct	-1.03	
For >5,000, Deduct	-2.06	
32 31 13 13-0145 LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	28.78	3.34
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.11	
For 13 Gauge Fabric, Deduct	-5.31	
For 11 Gauge Fabric, Deduct	-3.10	
For 6 Gauge Fabric, Add	4.87	
For 1" Mesh Fabric, Add	6.65	
For 1-3/4" Mesh Fabric, Add	2.66	
For 2-1/8" Mesh Fabric, Deduct	-1.33	
For 2-3/8" Mesh Fabric, Deduct	-1.77	
For Posts 8' On Centers, Add	1.60	
For Posts 5' On Centers, Add	6.06	
For Up To 100, Add	5.67	
For >100 To 250, Add	2.11	
For >2,500 To 5,000, Deduct	-1.06	
For >5,000, Deduct	-2.11	
32 31 13 13-0146 LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	30.83	3.34
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.24	
For 13 Gauge Fabric, Deduct	-5.87	
For 11 Gauge Fabric, Deduct	-3.43	
For 6 Gauge Fabric, Add	5.39	
For 1" Mesh Fabric, Add	7.35	
For 1-3/4" Mesh Fabric, Add	2.94	
For 2-1/8" Mesh Fabric, Deduct	-1.47	
For 2-3/8" Mesh Fabric, Deduct	-1.96	
For Posts 8' On Centers, Add	1.71	
For Posts 5' On Centers, Add	6.45	
For Up To 100, Add	6.02	
For >100 To 250, Add	2.24	
For >2,500 To 5,000, Deduct	-1.12	
For >5,000, Deduct	-2.24	
32 31 13 13-0147 LF 6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	33.37	3.34
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.41	
For 13 Gauge Fabric, Deduct	-6.44	
For 11 Gauge Fabric, Deduct	-3.76	
For 6 Gauge Fabric, Add	5.91	
For 1" Mesh Fabric, Add	8.06	
For 1-3/4" Mesh Fabric, Add	3.22	
For 2-1/8" Mesh Fabric, Deduct	-1.61	
For 2-3/8" Mesh Fabric, Deduct	-2.15	
For Posts 8' On Centers, Add	1.85	
For Posts 5' On Centers, Add	6.97	
For Up To 100, Add	6.49	
For >100 To 250, Add	2.41	
For >2,500 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-2.41	



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	34.69	5.01
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.50	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.70	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.92	
			<i>For 6 Gauge Fabric, Add</i>	6.15	
			<i>For 1" Mesh Fabric, Add</i>	8.39	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.68	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.24	
			<i>For Posts 8' On Centers, Add</i>	1.92	
			<i>For Posts 5' On Centers, Add</i>	7.25	
			<i>For Up To 100, Add</i>	6.74	
			<i>For &gt;100 To 250, Add</i>	2.50	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.25	
			<i>For &gt;5,000, Deduct</i>	-2.50	
32 31 13	13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	39.05	5.84
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.77	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.87	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.60	
			<i>For 6 Gauge Fabric, Add</i>	7.23	
			<i>For 1" Mesh Fabric, Add</i>	9.85	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.94	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.97	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.63	
			<i>For Posts 8' On Centers, Add</i>	2.15	
			<i>For Posts 5' On Centers, Add</i>	8.10	
			<i>For Up To 100, Add</i>	7.50	
			<i>For &gt;100 To 250, Add</i>	2.77	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.39	
			<i>For &gt;5,000, Deduct</i>	-2.77	
32 31 13	13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	41.61	7.52
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.94	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.49	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.96	
			<i>For 6 Gauge Fabric, Add</i>	7.79	
			<i>For 1" Mesh Fabric, Add</i>	10.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.25	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.13	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.83	
			<i>For Posts 8' On Centers, Add</i>	2.29	
			<i>For Posts 5' On Centers, Add</i>	8.61	
			<i>For Up To 100, Add</i>	7.96	
			<i>For &gt;100 To 250, Add</i>	2.94	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.47	
			<i>For &gt;5,000, Deduct</i>	-2.94	
32 31 13	13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	44.16	8.35
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.11	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.10	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.32	
			<i>For 6 Gauge Fabric, Add</i>	8.36	
			<i>For 1" Mesh Fabric, Add</i>	11.40	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.56	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.28	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.04	
			<i>For Posts 8' On Centers, Add</i>	2.42	
			<i>For Posts 5' On Centers, Add</i>	9.12	
			<i>For Up To 100, Add</i>	8.42	
			<i>For &gt;100 To 250, Add</i>	3.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.55	
			<i>For &gt;5,000, Deduct</i>	-3.11	
32 31 13	13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	48.98	10.02
			<i>For Each Additional Foot &gt;12, Add</i>	3.70	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.42	
			<i>For 13 Gauge Fabric, Deduct</i>	-10.25	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.99	
			<i>For 6 Gauge Fabric, Add</i>	9.41	
			<i>For 1" Mesh Fabric, Add</i>	12.84	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.13	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.57	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.42	
			<i>For Posts 8' On Centers, Add</i>	2.68	
			<i>For Posts 5' On Centers, Add</i>	10.08	
			<i>For Up To 100, Add</i>	9.29	
			<i>For &gt;100 To 250, Add</i>	3.42	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.71	
			<i>For &gt;5,000, Deduct</i>	-3.42	
32 31 13	13-0153		Vinyl Coated <small>(32 31 13 13-0141)</small>		



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0154 LF 4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	29.75	3.34
For Powder Coated Framework (Posts, Rails, Hardware), Add	2.44	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.16	
For 13 Gauge Fabric, Deduct	-5.65	
For 11 Gauge Fabric, Deduct	-3.30	
For 6 Gauge Fabric, Add	5.18	
For 1" Mesh Fabric, Add	7.07	
For 1-3/4" Mesh Fabric, Add	2.83	
For 2-1/8" Mesh Fabric, Deduct	-1.41	
For 2-3/8" Mesh Fabric, Deduct	-1.89	
For Posts 8' On Centers, Add	1.65	
For Posts 5' On Centers, Add	6.23	
For Up To 100, Add	5.81	
For >100 To 250, Add	2.16	
For >2,500 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-2.16	
32 31 13 13-0155 LF 5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	32.06	3.34
For Powder Coated Framework (Posts, Rails, Hardware), Add	2.72	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.30	
For 13 Gauge Fabric, Deduct	-6.30	
For 11 Gauge Fabric, Deduct	-3.68	
For 6 Gauge Fabric, Add	5.78	
For 1" Mesh Fabric, Add	7.89	
For 1-3/4" Mesh Fabric, Add	3.15	
For 2-1/8" Mesh Fabric, Deduct	-1.58	
For 2-3/8" Mesh Fabric, Deduct	-2.10	
For Posts 8' On Centers, Add	1.77	
For Posts 5' On Centers, Add	6.68	
For Up To 100, Add	6.20	
For >100 To 250, Add	2.30	
For >2,500 To 5,000, Deduct	-1.15	
For >5,000, Deduct	-2.30	
32 31 13 13-0156 LF 6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	35.86	3.34
For Powder Coated Framework (Posts, Rails, Hardware), Add	3.15	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.54	
For 13 Gauge Fabric, Deduct	-7.30	
For 11 Gauge Fabric, Deduct	-4.27	
For 6 Gauge Fabric, Add	6.71	
For 1" Mesh Fabric, Add	9.14	
For 1-3/4" Mesh Fabric, Add	3.66	
For 2-1/8" Mesh Fabric, Deduct	-1.83	
For 2-3/8" Mesh Fabric, Deduct	-2.44	
For Posts 8' On Centers, Add	1.97	
For Posts 5' On Centers, Add	7.42	
For Up To 100, Add	6.86	
For >100 To 250, Add	2.54	
For >2,500 To 5,000, Deduct	-1.27	
For >5,000, Deduct	-2.54	
32 31 13 13-0157 LF 7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	37.58	5.01
For Powder Coated Framework (Posts, Rails, Hardware), Add	3.33	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.65	
For 13 Gauge Fabric, Deduct	-7.71	
For 11 Gauge Fabric, Deduct	-4.50	
For 6 Gauge Fabric, Add	7.08	
For 1" Mesh Fabric, Add	9.65	
For 1-3/4" Mesh Fabric, Add	3.86	
For 2-1/8" Mesh Fabric, Deduct	-1.93	
For 2-3/8" Mesh Fabric, Deduct	-2.57	
For Posts 8' On Centers, Add	2.06	
For Posts 5' On Centers, Add	7.77	
For Up To 100, Add	7.18	
For >100 To 250, Add	2.65	
For >2,500 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-2.65	
32 31 13 13-0158 LF 8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	42.42	5.84
For Powder Coated Framework (Posts, Rails, Hardware), Add	3.90	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.94	
For 13 Gauge Fabric, Deduct	-9.04	
For 11 Gauge Fabric, Deduct	-5.28	
For 6 Gauge Fabric, Add	8.30	
For 1" Mesh Fabric, Add	11.32	
For 1-3/4" Mesh Fabric, Add	4.53	
For 2-1/8" Mesh Fabric, Deduct	-2.26	
For 2-3/8" Mesh Fabric, Deduct	-3.02	
For Posts 8' On Centers, Add	2.32	
For Posts 5' On Centers, Add	8.70	
For Up To 100, Add	8.00	
For >100 To 250, Add	2.94	
For >2,500 To 5,000, Deduct	-1.47	
For >5,000, Deduct	-2.94	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	45.23	7.52
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.21	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.12	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.75	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.69	
			<i>For 6 Gauge Fabric, Add</i>	8.95	
			<i>For 1" Mesh Fabric, Add</i>	12.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.88	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.44	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.25	
			<i>For Posts 8' On Centers, Add</i>	2.47	
			<i>For Posts 5' On Centers, Add</i>	9.26	
			<i>For Up To 100, Add</i>	8.50	
			<i>For &gt;100 To 250, Add</i>	3.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.56	
			<i>For &gt;5,000, Deduct</i>	-3.12	
32 31 13	13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	48.03	8.35
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.51	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.30	
			<i>For 13 Gauge Fabric, Deduct</i>	-10.45	
			<i>For 11 Gauge Fabric, Deduct</i>	-6.10	
			<i>For 6 Gauge Fabric, Add</i>	9.59	
			<i>For 1" Mesh Fabric, Add</i>	13.08	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.62	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.49	
			<i>For Posts 8' On Centers, Add</i>	2.62	
			<i>For Posts 5' On Centers, Add</i>	9.81	
			<i>For Up To 100, Add</i>	9.00	
			<i>For &gt;100 To 250, Add</i>	3.30	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.65	
			<i>For &gt;5,000, Deduct</i>	-3.30	
32 31 13	13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	52.38	10.02
			<i>For Each Additional Foot &gt;12, Add</i>	3.95	
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.94	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.59	
			<i>For 13 Gauge Fabric, Deduct</i>	-11.44	
			<i>For 11 Gauge Fabric, Deduct</i>	-6.68	
			<i>For 6 Gauge Fabric, Add</i>	10.50	
			<i>For 1" Mesh Fabric, Add</i>	14.32	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.86	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.82	
			<i>For Posts 8' On Centers, Add</i>	2.85	
			<i>For Posts 5' On Centers, Add</i>	10.69	
			<i>For Up To 100, Add</i>	9.80	
			<i>For &gt;100 To 250, Add</i>	3.59	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.80	
			<i>For &gt;5,000, Deduct</i>	-3.59	
32 31 13	13-0162		<b>Rails</b> <small>(32 31 13 13)</small>		
			Note: Includes rail end fittings.		
32 31 13	13-0163		<b>SS-20 Chain Link Fence Rails</b> <small>(32 31 13 13-0162)</small>		
			Note: Includes tie wires.		
32 31 13	13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings .....	4.80	1.08
			<i>For SS15, Deduct</i>	-0.25	
			<i>For SS40, Add</i>	0.64	
32 31 13	13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings .....	5.65	1.08
			<i>For SS40, Add</i>	0.34	
			<i>For Powder Coated, Add</i>	0.68	
			<i>For Aluminum Coated, Add</i>	1.36	
32 31 13	13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings .....	5.84	1.23
			<i>For SS15, Deduct</i>	-0.34	
			<i>For SS40, Add</i>	0.85	
32 31 13	13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings .....	6.98	1.23
			<i>For SS40, Add</i>	0.45	
			<i>For Powder Coated, Add</i>	0.90	
			<i>For Aluminum Coated, Add</i>	1.81	
32 31 13	13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings .....	6.81	1.37
			<i>For SS40, Add</i>	1.02	
32 31 13	13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings .....	8.17	1.37
			<i>For SS40, Add</i>	0.54	
			<i>For Powder Coated, Add</i>	1.08	
			<i>For Aluminum Coated, Add</i>	2.17	
32 31 13	13-0170		<b>Fabric</b> <small>(32 31 13 13)</small>		
32 31 13	13-0171		<b>Fabric, Galvanized Chain Link</b> <small>(32 31 13 13-0170)</small>		



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0172 LF 3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	8.77	1.97
For 1-1/4" Mesh Fabric, Add	0.67	
For 2 Oz Galvanized Or Zinc Coating, Add	0.60	
For 13 Gauge Fabric, Deduct	-1.08	
For 11 Gauge Fabric, Deduct	-0.60	
For 6 Gauge Fabric, Add	1.91	
For 1" Mesh Fabric, Add	1.79	
For 1-1/4" Mesh Fabric, Add	1.20	
For 1-3/4" Mesh Fabric, Add	0.72	
For 2-1/8" Mesh Fabric, Deduct	-0.36	
For 2-3/8" Mesh Fabric, Deduct	-0.48	
32 31 13 13-0173 LF 3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	9.67	2.21
For 1-1/4" Mesh Fabric, Add	0.78	
For 2 Oz Galvanized Or Zinc Coating, Add	0.70	
For 13 Gauge Fabric, Deduct	-1.26	
For 11 Gauge Fabric, Deduct	-0.70	
For 6 Gauge Fabric, Add	2.23	
For 1" Mesh Fabric, Add	2.09	
For 1-1/4" Mesh Fabric, Add	1.40	
For 1-3/4" Mesh Fabric, Add	0.84	
For 2-1/8" Mesh Fabric, Deduct	-0.42	
For 2-3/8" Mesh Fabric, Deduct	-0.56	
32 31 13 13-0174 LF 4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	10.43	2.46
For 1-1/4" Mesh Fabric, Add	0.86	
For 2 Oz Galvanized Or Zinc Coating, Add	0.77	
For 13 Gauge Fabric, Deduct	-1.38	
For 11 Gauge Fabric, Deduct	-0.77	
For 6 Gauge Fabric, Add	2.46	
For 1" Mesh Fabric, Add	2.30	
For 1-1/4" Mesh Fabric, Add	1.54	
For 1-3/4" Mesh Fabric, Add	0.92	
For 2-1/8" Mesh Fabric, Deduct	-0.46	
For 2-3/8" Mesh Fabric, Deduct	-0.61	
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	11.69	2.95
For 1-1/4" Mesh Fabric, Add	1.07	
For 2 Oz Galvanized Or Zinc Coating, Add	0.96	
For 13 Gauge Fabric, Deduct	-1.72	
For 11 Gauge Fabric, Deduct	-0.96	
For 6 Gauge Fabric, Add	3.06	
For 1" Mesh Fabric, Add	2.87	
For 1-1/4" Mesh Fabric, Add	1.92	
For 1-3/4" Mesh Fabric, Add	1.15	
For 2-1/8" Mesh Fabric, Deduct	-0.57	
For 2-3/8" Mesh Fabric, Deduct	-0.77	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.02	3.43
For 1-1/4" Mesh Fabric, Add	1.29	
For 2 Oz Galvanized Or Zinc Coating, Add	1.15	
For 13 Gauge Fabric, Deduct	-2.07	
For 11 Gauge Fabric, Deduct	-1.15	
For 6 Gauge Fabric, Add	3.68	
For 1" Mesh Fabric, Add	3.45	
For 1-1/4" Mesh Fabric, Add	2.30	
For 1-3/4" Mesh Fabric, Add	1.38	
For 2-1/8" Mesh Fabric, Deduct	-0.69	
For 2-3/8" Mesh Fabric, Deduct	-0.92	
32 31 13 13-0177 LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.43	3.93
For 1-1/4" Mesh Fabric, Add	1.50	
For 2 Oz Galvanized Or Zinc Coating, Add	1.34	
For 13 Gauge Fabric, Deduct	-2.41	
For 11 Gauge Fabric, Deduct	-1.34	
For 6 Gauge Fabric, Add	4.29	
For 1" Mesh Fabric, Add	4.02	
For 1-1/4" Mesh Fabric, Add	2.68	
For 1-3/4" Mesh Fabric, Add	1.61	
For 2-1/8" Mesh Fabric, Deduct	-0.80	
For 2-3/8" Mesh Fabric, Deduct	-1.07	
32 31 13 13-0178 LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.96	4.91
For 1-1/4" Mesh Fabric, Add	1.72	
For 2 Oz Galvanized Or Zinc Coating, Add	1.53	
For 13 Gauge Fabric, Deduct	-2.76	
For 11 Gauge Fabric, Deduct	-1.53	
For 6 Gauge Fabric, Add	4.90	
For 1" Mesh Fabric, Add	4.60	
For 1-1/4" Mesh Fabric, Add	3.07	
For 1-3/4" Mesh Fabric, Add	1.84	
For 2-1/8" Mesh Fabric, Deduct	-0.92	
For 2-3/8" Mesh Fabric, Deduct	-1.23	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 31 13 13-0179	LF	10'	Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	18.80	5.40
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.23	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.99	
			<i>For 13 Gauge Fabric, Deduct</i>	-3.58	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.99	
			<i>For 6 Gauge Fabric, Add</i>	6.37	
			<i>For 1" Mesh Fabric, Add</i>	5.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.39	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.19	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.59	
32 31 13 13-0180	LF	12'	Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	21.33	5.90
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.67	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.39	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.29	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.39	
			<i>For 6 Gauge Fabric, Add</i>	7.63	
			<i>For 1" Mesh Fabric, Add</i>	7.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.77	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.86	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.43	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.91	
32 31 13 13-0181	LF	14'	Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	24.01	6.88
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.87	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.56	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.61	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.56	
			<i>For 6 Gauge Fabric, Add</i>	8.20	
			<i>For 1" Mesh Fabric, Add</i>	7.69	
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.13	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.54	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.05	
32 31 13 13-0182	LF	16'	Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	26.67	7.86
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.07	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.74	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.93	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.74	
			<i>For 6 Gauge Fabric, Add</i>	8.76	
			<i>For 1" Mesh Fabric, Add</i>	8.21	
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.48	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.29	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.64	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.19	
32 31 13 13-0183	SF	>16'	Full Height Fabric Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	1.66	0.46
			<i>For 1-1/4" Mesh Fabric, Add</i>	0.19	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.17	
			<i>For 13 Gauge Fabric, Deduct</i>	-0.31	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.17	
			<i>For 6 Gauge Fabric, Add</i>	0.54	
			<i>For 1" Mesh Fabric, Add</i>	0.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	0.34	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.10	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.14	

**32 31 13 13-0184 Fabric, Vinyl Coated Chain Link** (32 31 13 13-0170)

32 31 13 13-0185	LF	4'	Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	11.40	1.97
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.13	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.82	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.01	
			<i>For 6 Gauge Fabric, Add</i>	3.23	
			<i>For 1" Mesh Fabric, Add</i>	3.03	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.02	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.21	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.61	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.81	
			<i>For Aluminum Coated, Add</i>	1.62	
32 31 13 13-0186	LF	5'	Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	12.91	2.95
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.41	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.27	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.26	
			<i>For 6 Gauge Fabric, Add</i>	4.04	
			<i>For 1" Mesh Fabric, Add</i>	3.79	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.53	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.52	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.76	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.01	
			<i>For Aluminum Coated, Add</i>	2.02	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0187 LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	15.51	3.43
For 1-1/4" Mesh Fabric, Add	1.99	
For 13 Gauge Fabric, Deduct	-3.19	
For 11 Gauge Fabric, Deduct	-1.77	
For 6 Gauge Fabric, Add	5.67	
For 1" Mesh Fabric, Add	5.32	
For 1-1/4" Mesh Fabric, Add	3.55	
For 1-3/4" Mesh Fabric, Add	2.13	
For 2-1/8" Mesh Fabric, Deduct	-1.06	
For 2-3/8" Mesh Fabric, Deduct	-1.42	
For Aluminum Coated, Add	2.84	
32 31 13 13-0188 LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	17.32	3.93
For 1-1/4" Mesh Fabric, Add	2.31	
For 13 Gauge Fabric, Deduct	-3.71	
For 11 Gauge Fabric, Deduct	-2.06	
For 6 Gauge Fabric, Add	6.60	
For 1" Mesh Fabric, Add	6.19	
For 1-1/4" Mesh Fabric, Add	4.13	
For 1-3/4" Mesh Fabric, Add	2.48	
For 2-1/8" Mesh Fabric, Deduct	-1.24	
For 2-3/8" Mesh Fabric, Deduct	-1.65	
For Aluminum Coated, Add	3.30	
32 31 13 13-0189 LF 8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	19.33	4.91
For 1-1/4" Mesh Fabric, Add	2.66	
For 13 Gauge Fabric, Deduct	-4.28	
For 11 Gauge Fabric, Deduct	-2.38	
For 6 Gauge Fabric, Add	7.60	
For 1" Mesh Fabric, Add	7.13	
For 1-1/4" Mesh Fabric, Add	4.75	
For 1-3/4" Mesh Fabric, Add	2.85	
For 2-1/8" Mesh Fabric, Deduct	-1.43	
For 2-3/8" Mesh Fabric, Deduct	-1.90	
For Aluminum Coated, Add	3.80	
32 31 13 13-0190 LF 10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	22.67	5.40
For 1-1/4" Mesh Fabric, Add	3.31	
For 13 Gauge Fabric, Deduct	-5.32	
For 11 Gauge Fabric, Deduct	-2.96	
For 6 Gauge Fabric, Add	9.46	
For 1" Mesh Fabric, Add	8.87	
For 1-1/4" Mesh Fabric, Add	5.92	
For 1-3/4" Mesh Fabric, Add	3.55	
For 2-1/8" Mesh Fabric, Deduct	-1.77	
For 2-3/8" Mesh Fabric, Deduct	-2.37	
For Aluminum Coated, Add	4.73	
32 31 13 13-0191 LF 12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	24.73	5.90
For 1-1/4" Mesh Fabric, Add	3.62	
For 13 Gauge Fabric, Deduct	-5.82	
For 11 Gauge Fabric, Deduct	-3.24	
For 6 Gauge Fabric, Add	10.35	
For 1" Mesh Fabric, Add	9.71	
For 1-1/4" Mesh Fabric, Add	6.47	
For 1-3/4" Mesh Fabric, Add	3.88	
For 2-1/8" Mesh Fabric, Deduct	-1.94	
For 2-3/8" Mesh Fabric, Deduct	-2.59	
For Aluminum Coated, Add	5.18	
32 31 13 13-0192 LF 14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	28.00	6.88
For 1-1/4" Mesh Fabric, Add	3.99	
For 13 Gauge Fabric, Deduct	-6.41	
For 11 Gauge Fabric, Deduct	-3.56	
For 6 Gauge Fabric, Add	11.39	
For 1" Mesh Fabric, Add	10.68	
For 1-1/4" Mesh Fabric, Add	7.12	
For 1-3/4" Mesh Fabric, Add	4.27	
For 2-1/8" Mesh Fabric, Deduct	-2.14	
For 2-3/8" Mesh Fabric, Deduct	-2.85	
For Aluminum Coated, Add	5.70	
32 31 13 13-0193 LF 16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	31.32	7.86
For 1-1/4" Mesh Fabric, Add	4.37	
For 13 Gauge Fabric, Deduct	-7.02	
For 11 Gauge Fabric, Deduct	-3.90	
For 6 Gauge Fabric, Add	12.48	
For 1" Mesh Fabric, Add	11.70	
For 1-1/4" Mesh Fabric, Add	7.80	
For 1-3/4" Mesh Fabric, Add	4.68	
For 2-1/8" Mesh Fabric, Deduct	-2.34	
For 2-3/8" Mesh Fabric, Deduct	-3.12	
For Aluminum Coated, Add	6.24	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0194 SF >16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	1.96	0.46
For 1-1/4" Mesh Fabric, Add	0.27	
For 13 Gauge Fabric, Deduct	-0.44	
For 11 Gauge Fabric, Deduct	-0.25	
For 6 Gauge Fabric, Add	0.78	
For 1" Mesh Fabric, Add	0.74	
For 1-1/4" Mesh Fabric, Add	0.49	
For 1-3/4" Mesh Fabric, Add	0.29	
For 2-1/8" Mesh Fabric, Deduct	-0.15	
For 2-3/8" Mesh Fabric, Deduct	-0.20	
For Aluminum Coated, Add	0.39	
<b>32 31 13 13-0195 Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)</b>		
32 31 13 13-0196 LF 3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	8.94	1.97
For 6 Gauge Fabric, Add	2.05	
For 1" Mesh Fabric, Add	2.69	
32 31 13 13-0197 LF 3-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	9.86	2.21
For 6 Gauge Fabric, Add	2.38	
For 1" Mesh Fabric, Add	3.13	
32 31 13 13-0198 LF 4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	10.77	2.46
For 6 Gauge Fabric, Add	2.73	
For 1" Mesh Fabric, Add	3.58	
32 31 13 13-0199 LF 5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	12.12	2.95
For 6 Gauge Fabric, Add	3.41	
For 1" Mesh Fabric, Add	4.47	
32 31 13 13-0200 LF 6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	13.51	3.43
For 6 Gauge Fabric, Add	4.07	
For 1" Mesh Fabric, Add	5.34	
32 31 13 13-0201 LF 7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	15.02	3.93
For 6 Gauge Fabric, Add	4.76	
For 1" Mesh Fabric, Add	6.25	
32 31 13 13-0202 LF 8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	16.63	4.91
For 6 Gauge Fabric, Add	5.44	
For 1" Mesh Fabric, Add	7.14	
32 31 13 13-0203 LF 10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	19.34	5.40
For 6 Gauge Fabric, Add	6.80	
For 1" Mesh Fabric, Add	8.93	
32 31 13 13-0204 LF 12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	21.99	5.90
For 6 Gauge Fabric, Add	8.16	
For 1" Mesh Fabric, Add	10.71	
<b>32 31 13 13-0205 Fabric, All Aluminum Chain Link (32 31 13 13-0170)</b>		
32 31 13 13-0206 LF 3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	13.08	1.97
For 6 Gauge Fabric, Add	5.36	
For 1" Mesh Fabric, Add	7.04	
32 31 13 13-0207 LF 3-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	14.70	2.21
For 6 Gauge Fabric, Add	6.26	
For 1" Mesh Fabric, Add	8.21	
32 31 13 13-0208 LF 4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	16.29	2.46
For 6 Gauge Fabric, Add	7.14	
For 1" Mesh Fabric, Add	9.38	
32 31 13 13-0209 LF 5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	19.03	2.95
For 6 Gauge Fabric, Add	8.94	
For 1" Mesh Fabric, Add	11.73	
32 31 13 13-0210 LF 6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	21.82	3.43
For 6 Gauge Fabric, Add	10.72	
For 1" Mesh Fabric, Add	14.07	
32 31 13 13-0211 LF 7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	24.70	3.93
For 6 Gauge Fabric, Add	12.50	
For 1" Mesh Fabric, Add	16.41	
32 31 13 13-0212 LF 8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	27.70	4.91
For 6 Gauge Fabric, Add	14.30	
For 1" Mesh Fabric, Add	18.76	
32 31 13 13-0213 LF 10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	33.17	5.40
For 6 Gauge Fabric, Add	17.86	
For 1" Mesh Fabric, Add	23.45	
32 31 13 13-0214 LF 12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh .....	38.59	5.90
For 6 Gauge Fabric, Add	21.44	
For 1" Mesh Fabric, Add	28.14	
<b>32 31 13 13-0215 Fence Inserts (32 31 13 13-0170)</b>		
Note: For use with new or existing chain link fence, per lf of fence.		
<b>32 31 13 13-0216 Vinyl Plastic Fence Inserts (32 31 13 13-0215)</b>		
Note: Assorted colors.		
32 31 13 13-0217 LF 3' High Fence, Vinyl Plastic Fence Insert.....	6.59	
32 31 13 13-0218 LF 3-1/2' High Fence, Vinyl Plastic Fence Insert.....	7.55	
32 31 13 13-0219 LF 4' High Fence, Vinyl Plastic Fence Insert.....	8.33	
32 31 13 13-0220 LF 5' High Fence, Vinyl Plastic Fence Insert.....	10.44	
32 31 13 13-0221 LF 6' High Fence, Vinyl Plastic Fence Insert.....	12.49	
32 31 13 13-0222 LF 7' High Fence, Vinyl Plastic Fence Insert.....	14.61	
32 31 13 13-0223 LF 8' High Fence, Vinyl Plastic Fence Insert.....	16.65	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0224 LF 10' High Fence, Vinyl Plastic Fence Insert.....	19.84	
<b>32 31 13 13-0225 Aluminum Fence Inserts</b> (32 31 13 13-0215)		
Note: Assorted colors.		
32 31 13 13-0226 LF 3' High Fence, Aluminum Fence Insert .....	21.19	
32 31 13 13-0227 LF 3-1/2' High Fence, Aluminum Fence Insert .....	23.30	
32 31 13 13-0228 LF 4' High Fence, Aluminum Fence Insert .....	26.68	
32 31 13 13-0229 LF 5' High Fence, Aluminum Fence Insert .....	33.40	
32 31 13 13-0230 LF 6' High Fence, Aluminum Fence Insert .....	40.06	
32 31 13 13-0231 LF 7' High Fence, Aluminum Fence Insert .....	43.77	
32 31 13 13-0232 LF 8' High Fence, Aluminum Fence Insert .....	53.40	
32 31 13 13-0233 LF 10' High Fence, Aluminum Fence Insert .....	66.12	
<b>32 31 13 13-0234 Redwood Fence Inserts</b> (32 31 13 13-0215)		
32 31 13 13-0235 LF 4' High Fence, Redwood Fence Insert .....	11.71	
32 31 13 13-0236 LF 5' High Fence, Redwood Fence Insert .....	14.81	
32 31 13 13-0237 LF 6' High Fence, Redwood Fence Insert .....	17.78	
32 31 13 13-0238 LF 7' High Fence, Redwood Fence Insert .....	20.70	
32 31 13 13-0239 LF 8' High Fence, Redwood Fence Insert .....	23.69	
<b>32 31 13 13-0240 Diagonal Flexible Polyethylene Inserts</b> (32 31 13 13-0215)		
32 31 13 13-0241 SF Diagonal Polyethylene Fence Weave .....	2.63	
<b>32 31 13 13-0242 Hedge Link Fence Inserts</b> (32 31 13 13-0215)		
32 31 13 13-0243 LF 3' High Fence, Hedge Link Fence Insert .....	13.44	
32 31 13 13-0244 LF 3-1/2' High Fence, Hedge Link Fence Insert .....	15.31	
32 31 13 13-0245 LF 4' High Fence, Hedge Link Fence Insert .....	18.11	
32 31 13 13-0246 LF 5' High Fence, Hedge Link Fence Insert .....	22.38	
32 31 13 13-0247 LF 6' High Fence, Hedge Link Fence Insert .....	25.75	
32 31 13 13-0248 LF 7' High Fence, Hedge Link Fence Insert .....	32.21	
32 31 13 13-0249 LF 8' High Fence, Hedge Link Fence Insert .....	36.61	
32 31 13 13-0250 LF 10' High Fence, Hedge Link Fence Insert .....	43.58	
32 31 13 13-0251 LF 12' High Fence, Hedge Link Fence Insert .....	49.95	
<b>32 31 13 13-0252 Fence Windscreen Fabric</b> (32 31 13 13-0170)		
Note: Includes plastic wire clips.		
32 31 13 13-0253 SF Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY .....	1.20	0.46
For Sewn Boxed Vent (Each), Add	16.15	
For Welded Boxed Vent (Each), Add	8.07	
For 4' x 4' One Color Logo (Each), Add	336.42	
<b>32 31 13 13-0254 Non-Climbable Fabric, Galvanized Chain Link</b> (32 31 13 13-0170)		
32 31 13 13-0255 LF 3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	20.66	1.97
For 11 Gauge, Deduct	-2.86	
For 10 Gauge, Deduct	-1.14	
For 7 Gauge, Add	1.71	
For 6 Gauge, Add	4.00	
For 1/2" Mesh Fabric, Deduct	-0.71	
For 5/8" Mesh Fabric, Deduct	-1.57	
For 3/4" Mesh Fabric, Deduct	-2.28	
32 31 13 13-0256 LF 3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	23.54	2.21
For 11 Gauge, Deduct	-3.33	
For 10 Gauge, Deduct	-1.33	
For 7 Gauge, Add	2.00	
For 6 Gauge, Add	4.66	
For 1/2" Mesh Fabric, Deduct	-0.83	
For 5/8" Mesh Fabric, Deduct	-1.83	
For 3/4" Mesh Fabric, Deduct	-2.67	
32 31 13 13-0257 LF 4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	26.42	2.46
For 11 Gauge, Deduct	-3.81	
For 10 Gauge, Deduct	-1.52	
For 7 Gauge, Add	2.29	
For 6 Gauge, Add	5.34	
For 1/2" Mesh Fabric, Deduct	-0.95	
For 5/8" Mesh Fabric, Deduct	-2.10	
For 3/4" Mesh Fabric, Deduct	-3.05	
32 31 13 13-0258 LF 5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	31.67	2.95
For 11 Gauge, Deduct	-4.76	
For 10 Gauge, Deduct	-1.90	
For 7 Gauge, Add	2.86	
For 6 Gauge, Add	6.67	
For 1/2" Mesh Fabric, Deduct	-1.19	
For 5/8" Mesh Fabric, Deduct	-2.62	
For 3/4" Mesh Fabric, Deduct	-3.81	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0259	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	36.99	3.43
		<i>For 11 Gauge, Deduct</i>	-5.71	
		<i>For 10 Gauge, Deduct</i>	-2.29	
		<i>For 7 Gauge, Add</i>	3.43	
		<i>For 6 Gauge, Add</i>	8.00	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-1.43	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-3.14	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-4.57	
32 31 13 13-0260	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	42.40	3.93
		<i>For 11 Gauge, Deduct</i>	-6.67	
		<i>For 10 Gauge, Deduct</i>	-2.67	
		<i>For 7 Gauge, Add</i>	4.00	
		<i>For 6 Gauge, Add</i>	9.33	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-1.67	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-3.67	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-5.33	
32 31 13 13-0261	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	47.93	4.91
		<i>For 11 Gauge, Deduct</i>	-7.62	
		<i>For 10 Gauge, Deduct</i>	-3.05	
		<i>For 7 Gauge, Add</i>	4.57	
		<i>For 6 Gauge, Add</i>	10.67	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-1.91	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-4.19	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-6.10	
32 31 13 13-0262	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	52.72	5.16
		<i>For 11 Gauge, Deduct</i>	-8.48	
		<i>For 10 Gauge, Deduct</i>	-3.39	
		<i>For 7 Gauge, Add</i>	5.09	
		<i>For 6 Gauge, Add</i>	11.87	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-2.12	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-4.67	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-6.79	
32 31 13 13-0263	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	57.55	5.40
		<i>For 11 Gauge, Deduct</i>	-9.34	
		<i>For 10 Gauge, Deduct</i>	-3.74	
		<i>For 7 Gauge, Add</i>	5.61	
		<i>For 6 Gauge, Add</i>	13.08	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-2.34	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-5.14	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-7.47	
32 31 13 13-0264	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	62.43	5.90
		<i>For 11 Gauge, Deduct</i>	-10.13	
		<i>For 10 Gauge, Deduct</i>	-4.05	
		<i>For 7 Gauge, Add</i>	6.08	
		<i>For 6 Gauge, Add</i>	14.18	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-2.53	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-5.57	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-8.10	
32 31 13 13-0265		<b>Gates</b> <small>(32 31 13 13)</small> Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0266		<b>Galvanized Steel Without Barbed Wire</b> <small>(32 31 13 13-0265)</small> Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0267		<b>4' Fence Height</b> <small>(32 31 13 13-0266)</small>		
32 31 13 13-0268	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	211.38	19.42
		<i>For Gate With Single Barb Wire Arm, Add</i>	16.58	
		<i>For Gate With Double Barb Wire Arm, Add</i>	24.11	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-28.25	
		<i>For Aluminized Steel Gate And Post, Add</i>	72.33	
		<i>For Powder Coated Gate And Post, Add</i>	39.18	
		<i>For 1" Mesh Fabric, Add</i>	65.55	
		<i>For 1-1/4" Mesh Fabric, Add</i>	42.19	
		<i>For 1-3/4" Mesh Fabric, Add</i>	26.22	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-13.11	
32 31 13 13-0269	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	261.61	20.23
		<i>For Gate With Single Barb Wire Arm, Add</i>	22.10	
		<i>For Gate With Double Barb Wire Arm, Add</i>	32.15	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-37.67	
		<i>For Aluminized Steel Gate And Post, Add</i>	96.44	
		<i>For Powder Coated Gate And Post, Add</i>	52.24	
		<i>For 1" Mesh Fabric, Add</i>	87.40	
		<i>For 1-1/4" Mesh Fabric, Add</i>	56.26	
		<i>For 1-3/4" Mesh Fabric, Add</i>	34.96	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-17.48	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0270 EA 5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	307.32	21.53
For Gate With Single Barb Wire Arm, Add	26.68	
For Gate With Double Barb Wire Arm, Add	38.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.48	
For Aluminized Steel Gate And Post, Add	116.44	
For Powder Coated Gate And Post, Add	63.07	
For 1" Mesh Fabric, Add	105.52	
For 1-1/4" Mesh Fabric, Add	67.92	
For 1-3/4" Mesh Fabric, Add	42.21	
For 2-1/8" Mesh Fabric, Deduct	-21.10	
32 31 13 13-0271 EA 6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	361.93	25.89
For Gate With Single Barb Wire Arm, Add	31.27	
For Gate With Double Barb Wire Arm, Add	45.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.29	
For Aluminized Steel Gate And Post, Add	136.43	
For Powder Coated Gate And Post, Add	73.90	
For 1" Mesh Fabric, Add	123.64	
For 1-1/4" Mesh Fabric, Add	79.58	
For 1-3/4" Mesh Fabric, Add	49.46	
For 2-1/8" Mesh Fabric, Deduct	-24.73	
32 31 13 13-0272 EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	416.54	30.19
For Gate With Single Barb Wire Arm, Add	35.85	
For Gate With Double Barb Wire Arm, Add	52.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.10	
For Aluminized Steel Gate And Post, Add	156.43	
For Powder Coated Gate And Post, Add	84.73	
For 1" Mesh Fabric, Add	141.76	
For 1-1/4" Mesh Fabric, Add	91.25	
For 1-3/4" Mesh Fabric, Add	56.70	
For 2-1/8" Mesh Fabric, Deduct	-28.35	
32 31 13 13-0273 EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	472.85	34.47
For Gate With Single Barb Wire Arm, Add	40.62	
For Gate With Double Barb Wire Arm, Add	59.08	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.24	
For Aluminized Steel Gate And Post, Add	177.24	
For Powder Coated Gate And Post, Add	96.01	
For 1" Mesh Fabric, Add	160.63	
For 1-1/4" Mesh Fabric, Add	103.39	
For 1-3/4" Mesh Fabric, Add	64.25	
For 2-1/8" Mesh Fabric, Deduct	-32.13	
32 31 13 13-0274 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	527.45	38.84
For Gate With Single Barb Wire Arm, Add	45.20	
For Gate With Double Barb Wire Arm, Add	65.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.05	
For Aluminized Steel Gate And Post, Add	197.24	
For Powder Coated Gate And Post, Add	106.84	
For 1" Mesh Fabric, Add	178.75	
For 1-1/4" Mesh Fabric, Add	115.06	
For 1-3/4" Mesh Fabric, Add	71.50	
For 2-1/8" Mesh Fabric, Deduct	-35.75	
32 31 13 13-0275 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	582.78	43.13
For Gate With Single Barb Wire Arm, Add	49.86	
For Gate With Double Barb Wire Arm, Add	72.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.00	
For Aluminized Steel Gate And Post, Add	217.59	
For Powder Coated Gate And Post, Add	117.86	
For 1" Mesh Fabric, Add	197.19	
For 1-1/4" Mesh Fabric, Add	126.93	
For 1-3/4" Mesh Fabric, Add	78.88	
For 2-1/8" Mesh Fabric, Deduct	-39.44	
32 31 13 13-0276 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire.....	732.25	43.13
For Gate With Single Barb Wire Arm, Add	66.30	
For Gate With Double Barb Wire Arm, Add	96.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.02	
For Aluminized Steel Gate And Post, Add	289.33	
For Powder Coated Gate And Post, Add	156.72	
For 1" Mesh Fabric, Add	262.20	
For 1-1/4" Mesh Fabric, Add	168.78	
For 1-3/4" Mesh Fabric, Add	104.88	
For 2-1/8" Mesh Fabric, Deduct	-52.44	
32 31 13 13-0277 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire.....	862.06	46.20
For Gate With Single Barb Wire Arm, Add	79.57	
For Gate With Double Barb Wire Arm, Add	115.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-135.62	
For Aluminized Steel Gate And Post, Add	347.20	
For Powder Coated Gate And Post, Add	188.07	
For 1" Mesh Fabric, Add	314.65	
For 1-1/4" Mesh Fabric, Add	202.53	
For 1-3/4" Mesh Fabric, Add	125.86	
For 2-1/8" Mesh Fabric, Deduct	-62.93	



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0278	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	993.28	49.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	92.83	
			<i>For Gate With Double Barb Wire Arm, Add</i>	135.02	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-158.23	
			<i>For Aluminized Steel Gate And Post, Add</i>	405.06	
			<i>For Powder Coated Gate And Post, Add</i>	219.41	
			<i>For 1" Mesh Fabric, Add</i>	367.09	
			<i>For 1-1/4" Mesh Fabric, Add</i>	236.29	
			<i>For 1-3/4" Mesh Fabric, Add</i>	146.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-73.42	
32 31 13	13-0279	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,126.28	53.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	106.09	
			<i>For Gate With Double Barb Wire Arm, Add</i>	154.31	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-180.83	
			<i>For Aluminized Steel Gate And Post, Add</i>	462.93	
			<i>For Powder Coated Gate And Post, Add</i>	250.75	
			<i>For 1" Mesh Fabric, Add</i>	419.53	
			<i>For 1-1/4" Mesh Fabric, Add</i>	270.04	
			<i>For 1-3/4" Mesh Fabric, Add</i>	167.81	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-83.91	
32 31 13	13-0280	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,282.74	65.81
			<i>For Gate With Single Barb Wire Arm, Add</i>	119.35	
			<i>For Gate With Double Barb Wire Arm, Add</i>	173.60	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-203.44	
			<i>For Aluminized Steel Gate And Post, Add</i>	520.80	
			<i>For Powder Coated Gate And Post, Add</i>	282.10	
			<i>For 1" Mesh Fabric, Add</i>	471.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	303.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	188.79	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-94.39	
32 31 13	13-0281	EA	20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,417.42	70.54
			<i>For Gate With Single Barb Wire Arm, Add</i>	132.61	
			<i>For Gate With Double Barb Wire Arm, Add</i>	192.89	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-226.04	
			<i>For Aluminized Steel Gate And Post, Add</i>	578.66	
			<i>For Powder Coated Gate And Post, Add</i>	313.44	
			<i>For 1" Mesh Fabric, Add</i>	524.41	
			<i>For 1-1/4" Mesh Fabric, Add</i>	337.55	
			<i>For 1-3/4" Mesh Fabric, Add</i>	209.77	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-104.88	
32 31 13	13-0282	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,551.33	76.01
			<i>For Gate With Single Barb Wire Arm, Add</i>	145.55	
			<i>For Gate With Double Barb Wire Arm, Add</i>	211.71	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-248.09	
			<i>For Aluminized Steel Gate And Post, Add</i>	635.12	
			<i>For Powder Coated Gate And Post, Add</i>	344.02	
			<i>For 1" Mesh Fabric, Add</i>	575.57	
			<i>For 1-1/4" Mesh Fabric, Add</i>	370.48	
			<i>For 1-3/4" Mesh Fabric, Add</i>	230.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-115.11	
32 31 13	13-0283	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,687.97	82.32
			<i>For Gate With Single Barb Wire Arm, Add</i>	158.49	
			<i>For Gate With Double Barb Wire Arm, Add</i>	230.52	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-270.15	
			<i>For Aluminized Steel Gate And Post, Add</i>	691.57	
			<i>For Powder Coated Gate And Post, Add</i>	374.60	
			<i>For 1" Mesh Fabric, Add</i>	626.74	
			<i>For 1-1/4" Mesh Fabric, Add</i>	403.42	
			<i>For 1-3/4" Mesh Fabric, Add</i>	250.70	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-125.35	
32 31 13	13-0284	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,828.05	89.83
			<i>For Gate With Single Barb Wire Arm, Add</i>	171.42	
			<i>For Gate With Double Barb Wire Arm, Add</i>	249.34	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-292.20	
			<i>For Aluminized Steel Gate And Post, Add</i>	748.03	
			<i>For Powder Coated Gate And Post, Add</i>	405.18	
			<i>For 1" Mesh Fabric, Add</i>	677.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	436.35	
			<i>For 1-3/4" Mesh Fabric, Add</i>	271.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-135.58	
32 31 13	13-0285	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,928.53	98.81
			<i>For Gate With Single Barb Wire Arm, Add</i>	179.51	
			<i>For Gate With Double Barb Wire Arm, Add</i>	261.10	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-305.98	
			<i>For Aluminized Steel Gate And Post, Add</i>	783.31	
			<i>For Powder Coated Gate And Post, Add</i>	424.29	
			<i>For 1" Mesh Fabric, Add</i>	709.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	456.93	
			<i>For 1-3/4" Mesh Fabric, Add</i>	283.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-141.98	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0286 EA 30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	2,137.91	109.75
For Gate With Single Barb Wire Arm, Add	198.92	
For Gate With Double Barb Wire Arm, Add	289.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-339.06	
For Aluminized Steel Gate And Post, Add	867.99	
For Powder Coated Gate And Post, Add	470.16	
For 1" Mesh Fabric, Add	786.62	
For 1-1/4" Mesh Fabric, Add	506.33	
For 1-3/4" Mesh Fabric, Add	314.65	
For 2-1/8" Mesh Fabric, Deduct	-157.32	
<b>32 31 13 13-0287 5' Fence Height (32 31 13 13-0266)</b>		
32 31 13 13-0288 EA 3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	250.96	21.53
For Gate With Single Barb Wire Arm, Add	20.48	
For Gate With Double Barb Wire Arm, Add	29.80	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.92	
For Aluminized Steel Gate And Post, Add	89.39	
For Powder Coated Gate And Post, Add	48.42	
For 1" Mesh Fabric, Add	81.01	
For 1-1/4" Mesh Fabric, Add	52.14	
For 1-3/4" Mesh Fabric, Add	32.40	
For 2-1/8" Mesh Fabric, Deduct	-16.20	
32 31 13 13-0289 EA 4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	312.22	21.53
For Gate With Single Barb Wire Arm, Add	27.22	
For Gate With Double Barb Wire Arm, Add	39.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.40	
For Aluminized Steel Gate And Post, Add	118.79	
For Powder Coated Gate And Post, Add	64.34	
For 1" Mesh Fabric, Add	107.65	
For 1-1/4" Mesh Fabric, Add	69.29	
For 1-3/4" Mesh Fabric, Add	43.06	
For 2-1/8" Mesh Fabric, Deduct	-21.53	
32 31 13 13-0290 EA 5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	362.84	22.90
For Gate With Single Barb Wire Arm, Add	32.34	
For Gate With Double Barb Wire Arm, Add	47.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.13	
For Aluminized Steel Gate And Post, Add	141.14	
For Powder Coated Gate And Post, Add	76.45	
For 1" Mesh Fabric, Add	127.91	
For 1-1/4" Mesh Fabric, Add	82.33	
For 1-3/4" Mesh Fabric, Add	51.16	
For 2-1/8" Mesh Fabric, Deduct	-25.58	
32 31 13 13-0291 EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	425.59	27.52
For Gate With Single Barb Wire Arm, Add	37.73	
For Gate With Double Barb Wire Arm, Add	54.89	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.32	
For Aluminized Steel Gate And Post, Add	164.66	
For Powder Coated Gate And Post, Add	89.19	
For 1" Mesh Fabric, Add	149.22	
For 1-1/4" Mesh Fabric, Add	96.05	
For 1-3/4" Mesh Fabric, Add	59.69	
For 2-1/8" Mesh Fabric, Deduct	-29.84	
32 31 13 13-0292 EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	483.45	32.04
For Gate With Single Barb Wire Arm, Add	42.59	
For Gate With Double Barb Wire Arm, Add	61.94	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.59	
For Aluminized Steel Gate And Post, Add	185.83	
For Powder Coated Gate And Post, Add	100.66	
For 1" Mesh Fabric, Add	168.41	
For 1-1/4" Mesh Fabric, Add	108.40	
For 1-3/4" Mesh Fabric, Add	67.36	
For 2-1/8" Mesh Fabric, Deduct	-33.68	
32 31 13 13-0293 EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	547.02	36.90
For Gate With Single Barb Wire Arm, Add	47.98	
For Gate With Double Barb Wire Arm, Add	69.78	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.78	
For Aluminized Steel Gate And Post, Add	209.35	
For Powder Coated Gate And Post, Add	113.40	
For 1" Mesh Fabric, Add	189.73	
For 1-1/4" Mesh Fabric, Add	122.12	
For 1-3/4" Mesh Fabric, Add	75.89	
For 2-1/8" Mesh Fabric, Deduct	-37.95	
32 31 13 13-0294 EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	607.33	41.51
For Gate With Single Barb Wire Arm, Add	53.10	
For Gate With Double Barb Wire Arm, Add	77.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.51	
For Aluminized Steel Gate And Post, Add	231.70	
For Powder Coated Gate And Post, Add	125.50	
For 1" Mesh Fabric, Add	209.98	
For 1-1/4" Mesh Fabric, Add	135.16	
For 1-3/4" Mesh Fabric, Add	83.99	
For 2-1/8" Mesh Fabric, Deduct	-42.00	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0295	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	667.64	46.05
			<i>For Gate With Single Barb Wire Arm, Add</i>	58.22	
			<i>For Gate With Double Barb Wire Arm, Add</i>	84.68	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-99.24	
			<i>For Aluminized Steel Gate And Post, Add</i>	254.04	
			<i>For Powder Coated Gate And Post, Add</i>	137.61	
			<i>For 1" Mesh Fabric, Add</i>	230.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	148.19	
			<i>For 1-3/4" Mesh Fabric, Add</i>	92.09	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-46.05	
32 31 13	13-0296	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	885.58	46.20
			<i>For Gate With Single Barb Wire Arm, Add</i>	82.15	
			<i>For Gate With Double Barb Wire Arm, Add</i>	119.50	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-140.03	
			<i>For Aluminized Steel Gate And Post, Add</i>	358.49	
			<i>For Powder Coated Gate And Post, Add</i>	194.18	
			<i>For 1" Mesh Fabric, Add</i>	324.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	209.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	129.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-64.98	
32 31 13	13-0297	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,046.21	49.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	98.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	143.49	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-168.15	
			<i>For Aluminized Steel Gate And Post, Add</i>	430.47	
			<i>For Powder Coated Gate And Post, Add</i>	233.17	
			<i>For 1" Mesh Fabric, Add</i>	390.11	
			<i>For 1-1/4" Mesh Fabric, Add</i>	251.11	
			<i>For 1-3/4" Mesh Fabric, Add</i>	156.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-78.02	
32 31 13	13-0298	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,208.61	53.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	115.14	
			<i>For Gate With Double Barb Wire Arm, Add</i>	167.48	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-196.27	
			<i>For Aluminized Steel Gate And Post, Add</i>	502.45	
			<i>For Powder Coated Gate And Post, Add</i>	272.16	
			<i>For 1" Mesh Fabric, Add</i>	455.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	293.10	
			<i>For 1-3/4" Mesh Fabric, Add</i>	182.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-91.07	
32 31 13	13-0299	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,394.48	65.81
			<i>For Gate With Single Barb Wire Arm, Add</i>	131.64	
			<i>For Gate With Double Barb Wire Arm, Add</i>	191.48	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-224.39	
			<i>For Aluminized Steel Gate And Post, Add</i>	574.43	
			<i>For Powder Coated Gate And Post, Add</i>	311.15	
			<i>For 1" Mesh Fabric, Add</i>	520.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	335.08	
			<i>For 1-3/4" Mesh Fabric, Add</i>	208.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-104.12	
32 31 13	13-0300	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,555.61	70.54
			<i>For Gate With Single Barb Wire Arm, Add</i>	147.81	
			<i>For Gate With Double Barb Wire Arm, Add</i>	215.00	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-251.95	
			<i>For Aluminized Steel Gate And Post, Add</i>	645.00	
			<i>For Powder Coated Gate And Post, Add</i>	349.37	
			<i>For 1" Mesh Fabric, Add</i>	584.53	
			<i>For 1-1/4" Mesh Fabric, Add</i>	376.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	233.81	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-116.91	
32 31 13	13-0301	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,724.81	76.01
			<i>For Gate With Single Barb Wire Arm, Add</i>	164.63	
			<i>For Gate With Double Barb Wire Arm, Add</i>	239.46	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-280.62	
			<i>For Aluminized Steel Gate And Post, Add</i>	718.39	
			<i>For Powder Coated Gate And Post, Add</i>	389.13	
			<i>For 1" Mesh Fabric, Add</i>	651.04	
			<i>For 1-1/4" Mesh Fabric, Add</i>	419.06	
			<i>For 1-3/4" Mesh Fabric, Add</i>	260.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-130.21	
32 31 13	13-0302	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,893.79	82.32
			<i>For Gate With Single Barb Wire Arm, Add</i>	181.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	263.46	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-308.74	
			<i>For Aluminized Steel Gate And Post, Add</i>	790.37	
			<i>For Powder Coated Gate And Post, Add</i>	428.12	
			<i>For 1" Mesh Fabric, Add</i>	716.27	
			<i>For 1-1/4" Mesh Fabric, Add</i>	461.05	
			<i>For 1-3/4" Mesh Fabric, Add</i>	286.51	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-143.25	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0303 EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,063.28	89.83
For Gate With Single Barb Wire Arm, Add	197.30	
For Gate With Double Barb Wire Arm, Add	286.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-336.30	
For Aluminized Steel Gate And Post, Add	860.94	
For Powder Coated Gate And Post, Add	466.34	
For 1" Mesh Fabric, Add	780.22	
For 1-1/4" Mesh Fabric, Add	502.21	
For 1-3/4" Mesh Fabric, Add	312.09	
For 2-1/8" Mesh Fabric, Deduct	-156.04	
32 31 13 13-0304 EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,243.15	98.81
For Gate With Single Barb Wire Arm, Add	214.12	
For Gate With Double Barb Wire Arm, Add	311.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-364.97	
For Aluminized Steel Gate And Post, Add	934.33	
For Powder Coated Gate And Post, Add	506.10	
For 1" Mesh Fabric, Add	846.74	
For 1-1/4" Mesh Fabric, Add	545.03	
For 1-3/4" Mesh Fabric, Add	338.69	
For 2-1/8" Mesh Fabric, Deduct	-169.35	
32 31 13 13-0305 EA 28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,424.21	109.75
For Gate With Single Barb Wire Arm, Add	230.41	
For Gate With Double Barb Wire Arm, Add	335.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-392.74	
For Aluminized Steel Gate And Post, Add	1,005.42	
For Powder Coated Gate And Post, Add	544.60	
For 1" Mesh Fabric, Add	911.16	
For 1-1/4" Mesh Fabric, Add	586.49	
For 1-3/4" Mesh Fabric, Add	364.46	
For 2-1/8" Mesh Fabric, Deduct	-182.23	
32 31 13 13-0306 EA 30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,611.34	123.47
For Gate With Single Barb Wire Arm, Add	246.46	
For Gate With Double Barb Wire Arm, Add	358.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-420.10	
For Aluminized Steel Gate And Post, Add	1,075.46	
For Powder Coated Gate And Post, Add	582.54	
For 1" Mesh Fabric, Add	974.64	
For 1-1/4" Mesh Fabric, Add	627.35	
For 1-3/4" Mesh Fabric, Add	389.86	
For 2-1/8" Mesh Fabric, Deduct	-194.93	
<b>32 31 13 13-0307 6' Fence Height</b> <small>(32 31 13 13-0266)</small>		
32 31 13 13-0308 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	269.06	23.07
For Gate With Single Barb Wire Arm, Add	21.97	
For Gate With Double Barb Wire Arm, Add	31.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.44	
For Aluminized Steel Gate And Post, Add	95.86	
For Powder Coated Gate And Post, Add	51.92	
For 1" Mesh Fabric, Add	86.87	
For 1-1/4" Mesh Fabric, Add	55.92	
For 1-3/4" Mesh Fabric, Add	34.75	
For 2-1/8" Mesh Fabric, Deduct	-17.37	
32 31 13 13-0309 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	335.22	23.07
For Gate With Single Barb Wire Arm, Add	29.24	
For Gate With Double Barb Wire Arm, Add	42.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-49.85	
For Aluminized Steel Gate And Post, Add	127.61	
For Powder Coated Gate And Post, Add	69.12	
For 1" Mesh Fabric, Add	115.65	
For 1-1/4" Mesh Fabric, Add	74.44	
For 1-3/4" Mesh Fabric, Add	46.26	
For 2-1/8" Mesh Fabric, Deduct	-23.13	
32 31 13 13-0310 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	390.10	24.52
For Gate With Single Barb Wire Arm, Add	34.81	
For Gate With Double Barb Wire Arm, Add	50.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.34	
For Aluminized Steel Gate And Post, Add	151.90	
For Powder Coated Gate And Post, Add	82.28	
For 1" Mesh Fabric, Add	137.66	
For 1-1/4" Mesh Fabric, Add	88.61	
For 1-3/4" Mesh Fabric, Add	55.06	
For 2-1/8" Mesh Fabric, Deduct	-27.53	
32 31 13 13-0311 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	454.10	29.62
For Gate With Single Barb Wire Arm, Add	40.16	
For Gate With Double Barb Wire Arm, Add	58.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.45	
For Aluminized Steel Gate And Post, Add	175.24	
For Powder Coated Gate And Post, Add	94.92	
For 1" Mesh Fabric, Add	158.81	
For 1-1/4" Mesh Fabric, Add	102.23	
For 1-3/4" Mesh Fabric, Add	63.53	
For 2-1/8" Mesh Fabric, Deduct	-31.76	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0312	EA	7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	520.94	34.80
			<i>For Gate With Single Barb Wire Arm, Add</i>	45.82	
			<i>For Gate With Double Barb Wire Arm, Add</i>	66.65	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-78.10	
			<i>For Aluminized Steel Gate And Post, Add</i>	199.94	
			<i>For Powder Coated Gate And Post, Add</i>	108.30	
			<i>For 1" Mesh Fabric, Add</i>	181.20	
			<i>For 1-1/4" Mesh Fabric, Add</i>	116.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	72.48	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-36.24	
32 31 13	13-0313	EA	8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	584.52	39.66
			<i>For Gate With Single Barb Wire Arm, Add</i>	51.21	
			<i>For Gate With Double Barb Wire Arm, Add</i>	74.49	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-87.29	
			<i>For Aluminized Steel Gate And Post, Add</i>	223.47	
			<i>For Powder Coated Gate And Post, Add</i>	121.05	
			<i>For 1" Mesh Fabric, Add</i>	202.52	
			<i>For 1-1/4" Mesh Fabric, Add</i>	130.36	
			<i>For 1-3/4" Mesh Fabric, Add</i>	81.01	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-40.50	
32 31 13	13-0314	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	648.90	44.75
			<i>For Gate With Single Barb Wire Arm, Add</i>	56.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	82.33	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-96.48	
			<i>For Aluminized Steel Gate And Post, Add</i>	246.99	
			<i>For Powder Coated Gate And Post, Add</i>	133.79	
			<i>For 1" Mesh Fabric, Add</i>	223.83	
			<i>For 1-1/4" Mesh Fabric, Add</i>	144.08	
			<i>For 1-3/4" Mesh Fabric, Add</i>	89.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-44.77	
32 31 13	13-0315	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	691.22	49.85
			<i>For Gate With Single Barb Wire Arm, Add</i>	59.57	
			<i>For Gate With Double Barb Wire Arm, Add</i>	86.64	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-101.54	
			<i>For Aluminized Steel Gate And Post, Add</i>	259.93	
			<i>For Powder Coated Gate And Post, Add</i>	140.80	
			<i>For 1" Mesh Fabric, Add</i>	235.56	
			<i>For 1-1/4" Mesh Fabric, Add</i>	151.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	94.22	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-47.11	
32 31 13	13-0316	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	946.24	49.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	87.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	127.49	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-149.41	
			<i>For Aluminized Steel Gate And Post, Add</i>	382.48	
			<i>For Powder Coated Gate And Post, Add</i>	207.18	
			<i>For 1" Mesh Fabric, Add</i>	346.63	
			<i>For 1-1/4" Mesh Fabric, Add</i>	223.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	138.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.33	
32 31 13	13-0317	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,117.46	53.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	105.12	
			<i>For Gate With Double Barb Wire Arm, Add</i>	152.90	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-179.18	
			<i>For Aluminized Steel Gate And Post, Add</i>	458.70	
			<i>For Powder Coated Gate And Post, Add</i>	248.46	
			<i>For 1" Mesh Fabric, Add</i>	415.69	
			<i>For 1-1/4" Mesh Fabric, Add</i>	267.57	
			<i>For 1-3/4" Mesh Fabric, Add</i>	166.28	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-83.14	
32 31 13	13-0318	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,329.21	70.54
			<i>For Gate With Single Barb Wire Arm, Add</i>	122.91	
			<i>For Gate With Double Barb Wire Arm, Add</i>	178.77	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-209.50	
			<i>For Aluminized Steel Gate And Post, Add</i>	536.32	
			<i>For Powder Coated Gate And Post, Add</i>	290.51	
			<i>For 1" Mesh Fabric, Add</i>	486.04	
			<i>For 1-1/4" Mesh Fabric, Add</i>	312.86	
			<i>For 1-3/4" Mesh Fabric, Add</i>	194.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-97.21	
32 31 13	13-0319	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,504.29	76.01
			<i>For Gate With Single Barb Wire Arm, Add</i>	140.37	
			<i>For Gate With Double Barb Wire Arm, Add</i>	204.18	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-239.27	
			<i>For Aluminized Steel Gate And Post, Add</i>	612.54	
			<i>For Powder Coated Gate And Post, Add</i>	331.79	
			<i>For 1" Mesh Fabric, Add</i>	555.11	
			<i>For 1-1/4" Mesh Fabric, Add</i>	357.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	222.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-111.02	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0320 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,685.03	82.32
For Gate With Single Barb Wire Arm, Add	158.16	
For Gate With Double Barb Wire Arm, Add	230.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-269.60	
For Aluminized Steel Gate And Post, Add	690.16	
For Powder Coated Gate And Post, Add	373.84	
For 1" Mesh Fabric, Add	625.46	
For 1-1/4" Mesh Fabric, Add	402.60	
For 1-3/4" Mesh Fabric, Add	250.18	
For 2-1/8" Mesh Fabric, Deduct	-125.09	
32 31 13 13-0321 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,869.22	89.83
For Gate With Single Barb Wire Arm, Add	175.95	
For Gate With Double Barb Wire Arm, Add	255.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-299.92	
For Aluminized Steel Gate And Post, Add	767.79	
For Powder Coated Gate And Post, Add	415.89	
For 1" Mesh Fabric, Add	695.81	
For 1-1/4" Mesh Fabric, Add	447.88	
For 1-3/4" Mesh Fabric, Add	278.32	
For 2-1/8" Mesh Fabric, Deduct	-139.16	
32 31 13 13-0322 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,054.97	98.81
For Gate With Single Barb Wire Arm, Add	193.42	
For Gate With Double Barb Wire Arm, Add	281.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-329.69	
For Aluminized Steel Gate And Post, Add	844.00	
For Powder Coated Gate And Post, Add	457.17	
For 1" Mesh Fabric, Add	764.88	
For 1-1/4" Mesh Fabric, Add	492.34	
For 1-3/4" Mesh Fabric, Add	305.95	
For 2-1/8" Mesh Fabric, Deduct	-152.98	
32 31 13 13-0323 EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,248.17	109.75
For Gate With Single Barb Wire Arm, Add	211.04	
For Gate With Double Barb Wire Arm, Add	306.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-359.73	
For Aluminized Steel Gate And Post, Add	920.92	
For Powder Coated Gate And Post, Add	498.83	
For 1" Mesh Fabric, Add	834.58	
For 1-1/4" Mesh Fabric, Add	537.20	
For 1-3/4" Mesh Fabric, Add	333.83	
For 2-1/8" Mesh Fabric, Deduct	-166.92	
32 31 13 13-0324 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,447.86	123.47
For Gate With Single Barb Wire Arm, Add	228.48	
For Gate With Double Barb Wire Arm, Add	332.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-389.45	
For Aluminized Steel Gate And Post, Add	996.99	
For Powder Coated Gate And Post, Add	540.04	
For 1" Mesh Fabric, Add	903.53	
For 1-1/4" Mesh Fabric, Add	581.58	
For 1-3/4" Mesh Fabric, Add	361.41	
For 2-1/8" Mesh Fabric, Deduct	-180.71	
32 31 13 13-0325 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,661.36	141.08
For Gate With Single Barb Wire Arm, Add	246.14	
For Gate With Double Barb Wire Arm, Add	358.02	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-419.55	
For Aluminized Steel Gate And Post, Add	1,074.05	
For Powder Coated Gate And Post, Add	581.78	
For 1" Mesh Fabric, Add	973.36	
For 1-1/4" Mesh Fabric, Add	626.53	
For 1-3/4" Mesh Fabric, Add	389.34	
For 2-1/8" Mesh Fabric, Deduct	-194.67	
32 31 13 13-0326 EA 30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,892.82	164.63
For Gate With Single Barb Wire Arm, Add	263.83	
For Gate With Double Barb Wire Arm, Add	383.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-449.71	
For Aluminized Steel Gate And Post, Add	1,151.26	
For Powder Coated Gate And Post, Add	623.60	
For 1" Mesh Fabric, Add	1,043.33	
For 1-1/4" Mesh Fabric, Add	671.57	
For 1-3/4" Mesh Fabric, Add	417.33	
For 2-1/8" Mesh Fabric, Deduct	-208.67	
<b>32 31 13 13-0327 7' Fence Height (32 31 13 13-0266)</b>		
32 31 13 13-0328 EA 3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	282.98	24.85
For Gate With Single Barb Wire Arm, Add	22.91	
For Gate With Double Barb Wire Arm, Add	33.32	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.05	
For Aluminized Steel Gate And Post, Add	99.97	
For Powder Coated Gate And Post, Add	54.15	
For 1" Mesh Fabric, Add	90.60	
For 1-1/4" Mesh Fabric, Add	58.32	
For 1-3/4" Mesh Fabric, Add	36.24	
For 2-1/8" Mesh Fabric, Deduct	-18.12	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0329	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		351.58	24.85
		<i>For Gate With Single Barb Wire Arm, Add</i>		30.46	
		<i>For Gate With Double Barb Wire Arm, Add</i>		44.30	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-51.92	
		<i>For Aluminized Steel Gate And Post, Add</i>		132.90	
		<i>For Powder Coated Gate And Post, Add</i>		71.99	
		<i>For 1" Mesh Fabric, Add</i>		120.44	
		<i>For 1-1/4" Mesh Fabric, Add</i>		77.53	
		<i>For 1-3/4" Mesh Fabric, Add</i>		48.18	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-24.09	
32 31 13 13-0330	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		410.96	26.13
		<i>For Gate With Single Barb Wire Arm, Add</i>		36.57	
		<i>For Gate With Double Barb Wire Arm, Add</i>		53.19	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-62.34	
		<i>For Aluminized Steel Gate And Post, Add</i>		159.58	
		<i>For Powder Coated Gate And Post, Add</i>		86.44	
		<i>For 1" Mesh Fabric, Add</i>		144.62	
		<i>For 1-1/4" Mesh Fabric, Add</i>		93.09	
		<i>For 1-3/4" Mesh Fabric, Add</i>		57.85	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-28.92	
32 31 13 13-0331	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		503.42	31.80
		<i>For Gate With Single Barb Wire Arm, Add</i>		44.87	
		<i>For Gate With Double Barb Wire Arm, Add</i>		65.27	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-76.49	
		<i>For Aluminized Steel Gate And Post, Add</i>		195.81	
		<i>For Powder Coated Gate And Post, Add</i>		106.06	
		<i>For 1" Mesh Fabric, Add</i>		177.45	
		<i>For 1-1/4" Mesh Fabric, Add</i>		114.22	
		<i>For 1-3/4" Mesh Fabric, Add</i>		70.98	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-35.49	
32 31 13 13-0332	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		595.09	37.23
		<i>For Gate With Single Barb Wire Arm, Add</i>		53.18	
		<i>For Gate With Double Barb Wire Arm, Add</i>		77.35	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-90.64	
		<i>For Aluminized Steel Gate And Post, Add</i>		232.04	
		<i>For Powder Coated Gate And Post, Add</i>		125.69	
		<i>For 1" Mesh Fabric, Add</i>		210.29	
		<i>For 1-1/4" Mesh Fabric, Add</i>		135.36	
		<i>For 1-3/4" Mesh Fabric, Add</i>		84.12	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-42.06	
32 31 13 13-0333	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		687.56	42.81
		<i>For Gate With Single Barb Wire Arm, Add</i>		61.48	
		<i>For Gate With Double Barb Wire Arm, Add</i>		89.42	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-104.79	
		<i>For Aluminized Steel Gate And Post, Add</i>		268.27	
		<i>For Powder Coated Gate And Post, Add</i>		145.31	
		<i>For 1" Mesh Fabric, Add</i>		243.12	
		<i>For 1-1/4" Mesh Fabric, Add</i>		156.49	
		<i>For 1-3/4" Mesh Fabric, Add</i>		97.25	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-48.62	
32 31 13 13-0334	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		779.23	48.24
		<i>For Gate With Single Barb Wire Arm, Add</i>		69.78	
		<i>For Gate With Double Barb Wire Arm, Add</i>		101.50	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-118.95	
		<i>For Aluminized Steel Gate And Post, Add</i>		304.50	
		<i>For Powder Coated Gate And Post, Add</i>		164.94	
		<i>For 1" Mesh Fabric, Add</i>		275.96	
		<i>For 1-1/4" Mesh Fabric, Add</i>		177.63	
		<i>For 1-3/4" Mesh Fabric, Add</i>		110.38	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-55.19	
32 31 13 13-0335	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....		858.09	53.89
		<i>For Gate With Single Barb Wire Arm, Add</i>		76.59	
		<i>For Gate With Double Barb Wire Arm, Add</i>		111.40	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-130.55	
		<i>For Aluminized Steel Gate And Post, Add</i>		334.20	
		<i>For Powder Coated Gate And Post, Add</i>		181.03	
		<i>For 1" Mesh Fabric, Add</i>		302.87	
		<i>For 1-1/4" Mesh Fabric, Add</i>		194.95	
		<i>For 1-3/4" Mesh Fabric, Add</i>		121.15	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-60.57	
32 31 13 13-0336	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire.....		1,075.76	53.89
		<i>For Gate With Single Barb Wire Arm, Add</i>		100.53	
		<i>For Gate With Double Barb Wire Arm, Add</i>		146.23	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>		-171.36	
		<i>For Aluminized Steel Gate And Post, Add</i>		438.68	
		<i>For Powder Coated Gate And Post, Add</i>		237.62	
		<i>For 1" Mesh Fabric, Add</i>		397.56	
		<i>For 1-1/4" Mesh Fabric, Add</i>		255.90	
		<i>For 1-3/4" Mesh Fabric, Add</i>		159.02	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-79.51	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0337 EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,228.08	70.54
For Gate With Single Barb Wire Arm, Add	111.78	
For Gate With Double Barb Wire Arm, Add	162.59	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-190.54	
For Aluminized Steel Gate And Post, Add	487.78	
For Powder Coated Gate And Post, Add	264.21	
For 1" Mesh Fabric, Add	442.05	
For 1-1/4" Mesh Fabric, Add	284.54	
For 1-3/4" Mesh Fabric, Add	176.82	
For 2-1/8" Mesh Fabric, Deduct	-88.41	
32 31 13 13-0338 EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,413.74	76.01
For Gate With Single Barb Wire Arm, Add	130.41	
For Gate With Double Barb Wire Arm, Add	189.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-222.29	
For Aluminized Steel Gate And Post, Add	569.07	
For Powder Coated Gate And Post, Add	308.25	
For 1" Mesh Fabric, Add	515.72	
For 1-1/4" Mesh Fabric, Add	331.96	
For 1-3/4" Mesh Fabric, Add	206.29	
For 2-1/8" Mesh Fabric, Deduct	-103.14	
32 31 13 13-0339 EA 16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,587.99	82.32
For Gate With Single Barb Wire Arm, Add	147.49	
For Gate With Double Barb Wire Arm, Add	214.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-251.40	
For Aluminized Steel Gate And Post, Add	643.58	
For Powder Coated Gate And Post, Add	348.61	
For 1" Mesh Fabric, Add	583.25	
For 1-1/4" Mesh Fabric, Add	375.42	
For 1-3/4" Mesh Fabric, Add	233.30	
For 2-1/8" Mesh Fabric, Deduct	-116.65	
32 31 13 13-0340 EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,781.00	89.83
For Gate With Single Barb Wire Arm, Add	166.25	
For Gate With Double Barb Wire Arm, Add	241.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-283.38	
For Aluminized Steel Gate And Post, Add	725.44	
For Powder Coated Gate And Post, Add	392.95	
For 1" Mesh Fabric, Add	657.43	
For 1-1/4" Mesh Fabric, Add	423.18	
For 1-3/4" Mesh Fabric, Add	262.97	
For 2-1/8" Mesh Fabric, Deduct	-131.49	
32 31 13 13-0341 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,975.58	98.81
For Gate With Single Barb Wire Arm, Add	184.68	
For Gate With Double Barb Wire Arm, Add	268.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-314.80	
For Aluminized Steel Gate And Post, Add	805.90	
For Powder Coated Gate And Post, Add	436.53	
For 1" Mesh Fabric, Add	730.34	
For 1-1/4" Mesh Fabric, Add	470.11	
For 1-3/4" Mesh Fabric, Add	292.14	
For 2-1/8" Mesh Fabric, Deduct	-146.07	
32 31 13 13-0342 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,176.14	109.75
For Gate With Single Barb Wire Arm, Add	203.12	
For Gate With Double Barb Wire Arm, Add	295.45	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-346.23	
For Aluminized Steel Gate And Post, Add	886.34	
For Powder Coated Gate And Post, Add	480.10	
For 1" Mesh Fabric, Add	803.25	
For 1-1/4" Mesh Fabric, Add	517.03	
For 1-3/4" Mesh Fabric, Add	321.30	
For 2-1/8" Mesh Fabric, Deduct	-160.65	
32 31 13 13-0343 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,384.94	123.47
For Gate With Single Barb Wire Arm, Add	221.56	
For Gate With Double Barb Wire Arm, Add	322.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-377.65	
For Aluminized Steel Gate And Post, Add	966.79	
For Powder Coated Gate And Post, Add	523.68	
For 1" Mesh Fabric, Add	876.16	
For 1-1/4" Mesh Fabric, Add	563.96	
For 1-3/4" Mesh Fabric, Add	350.46	
For 2-1/8" Mesh Fabric, Deduct	-175.23	
32 31 13 13-0344 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,605.50	141.08
For Gate With Single Barb Wire Arm, Add	239.99	
For Gate With Double Barb Wire Arm, Add	349.08	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-409.08	
For Aluminized Steel Gate And Post, Add	1,047.24	
For Powder Coated Gate And Post, Add	567.26	
For 1" Mesh Fabric, Add	949.06	
For 1-1/4" Mesh Fabric, Add	610.89	
For 1-3/4" Mesh Fabric, Add	379.62	
For 2-1/8" Mesh Fabric, Deduct	-189.81	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0345	EA	28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,843.72	164.63
			<i>For Gate With Single Barb Wire Arm, Add</i>	258.43	
			<i>For Gate With Double Barb Wire Arm, Add</i>	375.90	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-440.50	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,127.69	
			<i>For Powder Coated Gate And Post, Add</i>	610.83	
			<i>For 1" Mesh Fabric, Add</i>	1,021.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	657.82	
			<i>For 1-3/4" Mesh Fabric, Add</i>	408.79	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-204.39	
32 31 13	13-0346	EA	30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	3,110.20	197.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	276.86	
			<i>For Gate With Double Barb Wire Arm, Add</i>	402.71	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-471.93	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,208.14	
			<i>For Powder Coated Gate And Post, Add</i>	654.41	
			<i>For 1" Mesh Fabric, Add</i>	1,094.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	704.75	
			<i>For 1-3/4" Mesh Fabric, Add</i>	437.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-218.97	
<b>32 31 13</b>	<b>13-0347</b>		<b>8' Fence Height</b> <small>(32 31 13 13-0266)</small>		
32 31 13	13-0348	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	329.67	26.95
			<i>For Gate With Single Barb Wire Arm, Add</i>	27.36	
			<i>For Gate With Double Barb Wire Arm, Add</i>	39.80	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-46.64	
			<i>For Aluminized Steel Gate And Post, Add</i>	119.40	
			<i>For Powder Coated Gate And Post, Add</i>	64.67	
			<i>For 1" Mesh Fabric, Add</i>	108.20	
			<i>For 1-1/4" Mesh Fabric, Add</i>	69.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	43.28	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-21.64	
32 31 13	13-0349	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	412.59	26.95
			<i>For Gate With Single Barb Wire Arm, Add</i>	36.48	
			<i>For Gate With Double Barb Wire Arm, Add</i>	53.07	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-62.19	
			<i>For Aluminized Steel Gate And Post, Add</i>	159.20	
			<i>For Powder Coated Gate And Post, Add</i>	86.23	
			<i>For 1" Mesh Fabric, Add</i>	144.27	
			<i>For 1-1/4" Mesh Fabric, Add</i>	92.86	
			<i>For 1-3/4" Mesh Fabric, Add</i>	57.71	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-28.85	
32 31 13	13-0350	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	480.29	30.02
			<i>For Gate With Single Barb Wire Arm, Add</i>	42.91	
			<i>For Gate With Double Barb Wire Arm, Add</i>	62.41	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-73.14	
			<i>For Aluminized Steel Gate And Post, Add</i>	187.23	
			<i>For Powder Coated Gate And Post, Add</i>	101.42	
			<i>For 1" Mesh Fabric, Add</i>	169.68	
			<i>For 1-1/4" Mesh Fabric, Add</i>	109.22	
			<i>For 1-3/4" Mesh Fabric, Add</i>	67.87	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-33.94	
32 31 13	13-0351	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	550.44	33.99
			<i>For Gate With Single Barb Wire Arm, Add</i>	49.33	
			<i>For Gate With Double Barb Wire Arm, Add</i>	71.76	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-84.09	
			<i>For Aluminized Steel Gate And Post, Add</i>	215.27	
			<i>For Powder Coated Gate And Post, Add</i>	116.60	
			<i>For 1" Mesh Fabric, Add</i>	195.09	
			<i>For 1-1/4" Mesh Fabric, Add</i>	125.57	
			<i>For 1-3/4" Mesh Fabric, Add</i>	78.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-39.02	
32 31 13	13-0352	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	629.89	40.95
			<i>For Gate With Single Barb Wire Arm, Add</i>	55.76	
			<i>For Gate With Double Barb Wire Arm, Add</i>	81.10	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-95.04	
			<i>For Aluminized Steel Gate And Post, Add</i>	243.31	
			<i>For Powder Coated Gate And Post, Add</i>	131.79	
			<i>For 1" Mesh Fabric, Add</i>	220.50	
			<i>For 1-1/4" Mesh Fabric, Add</i>	141.93	
			<i>For 1-3/4" Mesh Fabric, Add</i>	88.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-44.10	
32 31 13	13-0353	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	708.54	47.66
			<i>For Gate With Single Barb Wire Arm, Add</i>	62.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	90.45	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-106.00	
			<i>For Aluminized Steel Gate And Post, Add</i>	271.35	
			<i>For Powder Coated Gate And Post, Add</i>	146.98	
			<i>For 1" Mesh Fabric, Add</i>	245.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	158.29	
			<i>For 1-3/4" Mesh Fabric, Add</i>	98.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-49.18	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0354 EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	788.00	54.71
For Gate With Single Barb Wire Arm, Add	68.61	
For Gate With Double Barb Wire Arm, Add	99.80	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.95	
For Aluminized Steel Gate And Post, Add	299.39	
For Powder Coated Gate And Post, Add	162.17	
For 1" Mesh Fabric, Add	271.32	
For 1-1/4" Mesh Fabric, Add	174.64	
For 1-3/4" Mesh Fabric, Add	108.53	
For 2-1/8" Mesh Fabric, Deduct	-54.26	
32 31 13 13-0355 EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	867.45	61.75
For Gate With Single Barb Wire Arm, Add	75.04	
For Gate With Double Barb Wire Arm, Add	109.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.90	
For Aluminized Steel Gate And Post, Add	327.43	
For Powder Coated Gate And Post, Add	177.36	
For 1" Mesh Fabric, Add	296.73	
For 1-1/4" Mesh Fabric, Add	191.00	
For 1-3/4" Mesh Fabric, Add	118.69	
For 2-1/8" Mesh Fabric, Deduct	-59.35	
32 31 13 13-0356 EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	1,235.09	70.54
For Gate With Single Barb Wire Arm, Add	112.55	
For Gate With Double Barb Wire Arm, Add	163.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-191.85	
For Aluminized Steel Gate And Post, Add	491.15	
For Powder Coated Gate And Post, Add	266.04	
For 1" Mesh Fabric, Add	445.10	
For 1-1/4" Mesh Fabric, Add	286.50	
For 1-3/4" Mesh Fabric, Add	178.04	
For 2-1/8" Mesh Fabric, Deduct	-89.02	
32 31 13 13-0357 EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	1,448.42	76.01
For Gate With Single Barb Wire Arm, Add	134.23	
For Gate With Double Barb Wire Arm, Add	195.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-228.80	
For Aluminized Steel Gate And Post, Add	585.72	
For Powder Coated Gate And Post, Add	317.27	
For 1" Mesh Fabric, Add	530.81	
For 1-1/4" Mesh Fabric, Add	341.67	
For 1-3/4" Mesh Fabric, Add	212.32	
For 2-1/8" Mesh Fabric, Deduct	-106.16	
32 31 13 13-0358 EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	1,667.38	82.32
For Gate With Single Barb Wire Arm, Add	156.22	
For Gate With Double Barb Wire Arm, Add	227.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.29	
For Aluminized Steel Gate And Post, Add	681.69	
For Powder Coated Gate And Post, Add	369.25	
For 1" Mesh Fabric, Add	617.78	
For 1-1/4" Mesh Fabric, Add	397.65	
For 1-3/4" Mesh Fabric, Add	247.11	
For 2-1/8" Mesh Fabric, Deduct	-123.56	
32 31 13 13-0359 EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	1,895.68	89.83
For Gate With Single Barb Wire Arm, Add	178.86	
For Gate With Double Barb Wire Arm, Add	260.16	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-304.88	
For Aluminized Steel Gate And Post, Add	780.49	
For Powder Coated Gate And Post, Add	422.77	
For 1" Mesh Fabric, Add	707.32	
For 1-1/4" Mesh Fabric, Add	455.29	
For 1-3/4" Mesh Fabric, Add	282.93	
For 2-1/8" Mesh Fabric, Deduct	-141.46	
32 31 13 13-0360 EA 18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,128.47	98.81
For Gate With Single Barb Wire Arm, Add	201.50	
For Gate With Double Barb Wire Arm, Add	293.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-343.47	
For Aluminized Steel Gate And Post, Add	879.28	
For Powder Coated Gate And Post, Add	476.28	
For 1" Mesh Fabric, Add	796.85	
For 1-1/4" Mesh Fabric, Add	512.92	
For 1-3/4" Mesh Fabric, Add	318.74	
For 2-1/8" Mesh Fabric, Deduct	-159.37	
32 31 13 13-0361 EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	2,364.32	109.75
For Gate With Single Barb Wire Arm, Add	223.82	
For Gate With Double Barb Wire Arm, Add	325.56	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-381.51	
For Aluminized Steel Gate And Post, Add	976.67	
For Powder Coated Gate And Post, Add	529.03	
For 1" Mesh Fabric, Add	885.11	
For 1-1/4" Mesh Fabric, Add	569.72	
For 1-3/4" Mesh Fabric, Add	354.04	
For 2-1/8" Mesh Fabric, Deduct	-177.02	



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0362 EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	2,605.46	123.47
For Gate With Single Barb Wire Arm, Add	245.81	
For Gate With Double Barb Wire Arm, Add	357.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-419.00	
For Aluminized Steel Gate And Post, Add	1,072.64	
For Powder Coated Gate And Post, Add	581.01	
For 1" Mesh Fabric, Add	972.08	
For 1-1/4" Mesh Fabric, Add	625.71	
For 1-3/4" Mesh Fabric, Add	388.83	
For 2-1/8" Mesh Fabric, Deduct	-194.42	
32 31 13 13-0363 EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	2,864.25	141.08
For Gate With Single Barb Wire Arm, Add	268.46	
For Gate With Double Barb Wire Arm, Add	390.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-457.59	
For Aluminized Steel Gate And Post, Add	1,171.44	
For Powder Coated Gate And Post, Add	634.53	
For 1" Mesh Fabric, Add	1,061.62	
For 1-1/4" Mesh Fabric, Add	683.34	
For 1-3/4" Mesh Fabric, Add	424.65	
For 2-1/8" Mesh Fabric, Deduct	-212.32	
32 31 13 13-0364 EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	3,140.69	164.63
For Gate With Single Barb Wire Arm, Add	291.10	
For Gate With Double Barb Wire Arm, Add	423.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-496.19	
For Aluminized Steel Gate And Post, Add	1,270.23	
For Powder Coated Gate And Post, Add	688.04	
For 1" Mesh Fabric, Add	1,151.15	
For 1-1/4" Mesh Fabric, Add	740.97	
For 1-3/4" Mesh Fabric, Add	460.46	
For 2-1/8" Mesh Fabric, Deduct	-230.23	
32 31 13 13-0365 EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	3,442.46	197.53
For Gate With Single Barb Wire Arm, Add	313.41	
For Gate With Double Barb Wire Arm, Add	455.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-534.23	
For Aluminized Steel Gate And Post, Add	1,367.62	
For Powder Coated Gate And Post, Add	740.79	
For 1" Mesh Fabric, Add	1,239.41	
For 1-1/4" Mesh Fabric, Add	797.78	
For 1-3/4" Mesh Fabric, Add	495.76	
For 2-1/8" Mesh Fabric, Deduct	-247.88	
32 31 13 13-0366 EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	3,793.65	246.94
For Gate With Single Barb Wire Arm, Add	335.73	
For Gate With Double Barb Wire Arm, Add	488.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-572.27	
For Aluminized Steel Gate And Post, Add	1,465.00	
For Powder Coated Gate And Post, Add	793.54	
For 1" Mesh Fabric, Add	1,327.66	
For 1-1/4" Mesh Fabric, Add	854.59	
For 1-3/4" Mesh Fabric, Add	531.06	
For 2-1/8" Mesh Fabric, Deduct	-265.53	
<b>32 31 13 13-0367 10' Fence Height</b> <small>(32 31 13 13-0266)</small>		
32 31 13 13-0368 EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	411.57	29.94
For Gate With Single Barb Wire Arm, Add	35.38	
For Gate With Double Barb Wire Arm, Add	51.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.31	
For Aluminized Steel Gate And Post, Add	154.40	
For Powder Coated Gate And Post, Add	83.63	
For 1" Mesh Fabric, Add	139.92	
For 1-1/4" Mesh Fabric, Add	90.06	
For 1-3/4" Mesh Fabric, Add	55.97	
For 2-1/8" Mesh Fabric, Deduct	-27.98	
32 31 13 13-0369 EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	518.78	29.94
For Gate With Single Barb Wire Arm, Add	47.18	
For Gate With Double Barb Wire Arm, Add	68.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.41	
For Aluminized Steel Gate And Post, Add	205.86	
For Powder Coated Gate And Post, Add	111.51	
For 1" Mesh Fabric, Add	186.56	
For 1-1/4" Mesh Fabric, Add	120.08	
For 1-3/4" Mesh Fabric, Add	74.62	
For 2-1/8" Mesh Fabric, Deduct	-37.31	
32 31 13 13-0370 EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	598.29	31.24
For Gate With Single Barb Wire Arm, Add	55.49	
For Gate With Double Barb Wire Arm, Add	80.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.58	
For Aluminized Steel Gate And Post, Add	242.12	
For Powder Coated Gate And Post, Add	131.15	
For 1" Mesh Fabric, Add	219.42	
For 1-1/4" Mesh Fabric, Add	141.24	
For 1-3/4" Mesh Fabric, Add	87.77	
For 2-1/8" Mesh Fabric, Deduct	-43.88	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0371 EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	696.49	38.84
For Gate With Single Barb Wire Arm, Add	63.80	
For Gate With Double Barb Wire Arm, Add	92.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.74	
For Aluminized Steel Gate And Post, Add	278.38	
For Powder Coated Gate And Post, Add	150.79	
For 1" Mesh Fabric, Add	252.28	
For 1-1/4" Mesh Fabric, Add	162.39	
For 1-3/4" Mesh Fabric, Add	100.91	
For 2-1/8" Mesh Fabric, Deduct	-50.46	
32 31 13 13-0372 EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	794.21	46.05
For Gate With Single Barb Wire Arm, Add	72.10	
For Gate With Double Barb Wire Arm, Add	104.88	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.90	
For Aluminized Steel Gate And Post, Add	314.63	
For Powder Coated Gate And Post, Add	170.42	
For 1" Mesh Fabric, Add	285.13	
For 1-1/4" Mesh Fabric, Add	183.53	
For 1-3/4" Mesh Fabric, Add	114.05	
For 2-1/8" Mesh Fabric, Deduct	-57.03	
32 31 13 13-0373 EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	892.05	53.65
For Gate With Single Barb Wire Arm, Add	80.41	
For Gate With Double Barb Wire Arm, Add	116.96	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.07	
For Aluminized Steel Gate And Post, Add	350.89	
For Powder Coated Gate And Post, Add	190.07	
For 1" Mesh Fabric, Add	317.99	
For 1-1/4" Mesh Fabric, Add	204.69	
For 1-3/4" Mesh Fabric, Add	127.20	
For 2-1/8" Mesh Fabric, Deduct	-63.60	
32 31 13 13-0374 EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	989.45	60.93
For Gate With Single Barb Wire Arm, Add	88.72	
For Gate With Double Barb Wire Arm, Add	129.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.23	
For Aluminized Steel Gate And Post, Add	387.15	
For Powder Coated Gate And Post, Add	209.71	
For 1" Mesh Fabric, Add	350.86	
For 1-1/4" Mesh Fabric, Add	225.84	
For 1-3/4" Mesh Fabric, Add	140.34	
For 2-1/8" Mesh Fabric, Deduct	-70.17	
32 31 13 13-0375 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,087.66	68.46
For Gate With Single Barb Wire Arm, Add	97.03	
For Gate With Double Barb Wire Arm, Add	141.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.40	
For Aluminized Steel Gate And Post, Add	423.41	
For Powder Coated Gate And Post, Add	229.35	
For 1" Mesh Fabric, Add	383.72	
For 1-1/4" Mesh Fabric, Add	246.99	
For 1-3/4" Mesh Fabric, Add	153.49	
For 2-1/8" Mesh Fabric, Deduct	-76.74	
32 31 13 13-0376 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	1,558.56	78.42
For Gate With Single Barb Wire Arm, Add	145.55	
For Gate With Double Barb Wire Arm, Add	211.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.09	
For Aluminized Steel Gate And Post, Add	635.11	
For Powder Coated Gate And Post, Add	344.02	
For 1" Mesh Fabric, Add	575.57	
For 1-1/4" Mesh Fabric, Add	370.48	
For 1-3/4" Mesh Fabric, Add	230.23	
For 2-1/8" Mesh Fabric, Deduct	-115.11	
32 31 13 13-0377 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	1,694.23	84.36
For Gate With Single Barb Wire Arm, Add	158.49	
For Gate With Double Barb Wire Arm, Add	230.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-270.15	
For Aluminized Steel Gate And Post, Add	691.58	
For Powder Coated Gate And Post, Add	374.61	
For 1" Mesh Fabric, Add	626.75	
For 1-1/4" Mesh Fabric, Add	403.42	
For 1-3/4" Mesh Fabric, Add	250.70	
For 2-1/8" Mesh Fabric, Deduct	-125.35	
32 31 13 13-0378 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	1,927.13	91.49
For Gate With Single Barb Wire Arm, Add	181.77	
For Gate With Double Barb Wire Arm, Add	264.40	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-309.84	
For Aluminized Steel Gate And Post, Add	793.19	
For Powder Coated Gate And Post, Add	429.64	
For 1" Mesh Fabric, Add	718.83	
For 1-1/4" Mesh Fabric, Add	462.69	
For 1-3/4" Mesh Fabric, Add	287.53	
For 2-1/8" Mesh Fabric, Deduct	-143.77	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0379	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	2,187.21	99.74
			<i>For Gate With Single Barb Wire Arm, Add</i>	207.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	302.03	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-353.95	
			<i>For Aluminized Steel Gate And Post, Add</i>	906.10	
			<i>For Powder Coated Gate And Post, Add</i>	490.80	
			<i>For 1" Mesh Fabric, Add</i>	821.15	
			<i>For 1-1/4" Mesh Fabric, Add</i>	528.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	328.46	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-164.23	
32 31 13	13-0380	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	2,452.53	109.75
			<i>For Gate With Single Barb Wire Arm, Add</i>	233.52	
			<i>For Gate With Double Barb Wire Arm, Add</i>	339.67	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-398.05	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,019.01	
			<i>For Powder Coated Gate And Post, Add</i>	551.96	
			<i>For 1" Mesh Fabric, Add</i>	923.48	
			<i>For 1-1/4" Mesh Fabric, Add</i>	594.42	
			<i>For 1-3/4" Mesh Fabric, Add</i>	369.39	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-184.70	
32 31 13	13-0381	EA	20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	2,725.66	121.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	259.56	
			<i>For Gate With Double Barb Wire Arm, Add</i>	377.54	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-442.43	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,132.63	
			<i>For Powder Coated Gate And Post, Add</i>	613.51	
			<i>For 1" Mesh Fabric, Add</i>	1,026.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	660.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	410.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-205.29	
32 31 13	13-0382	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,008.31	137.19
			<i>For Gate With Single Barb Wire Arm, Add</i>	285.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	415.41	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-486.81	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,246.24	
			<i>For Powder Coated Gate And Post, Add</i>	675.05	
			<i>For 1" Mesh Fabric, Add</i>	1,129.41	
			<i>For 1-1/4" Mesh Fabric, Add</i>	726.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	451.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-225.88	
32 31 13	13-0383	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,302.11	156.65
			<i>For Gate With Single Barb Wire Arm, Add</i>	311.47	
			<i>For Gate With Double Barb Wire Arm, Add</i>	453.05	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-530.92	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,359.15	
			<i>For Powder Coated Gate And Post, Add</i>	736.21	
			<i>For 1" Mesh Fabric, Add</i>	1,231.73	
			<i>For 1-1/4" Mesh Fabric, Add</i>	792.84	
			<i>For 1-3/4" Mesh Fabric, Add</i>	492.69	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-246.35	
32 31 13	13-0384	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,616.11	182.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	337.35	
			<i>For Gate With Double Barb Wire Arm, Add</i>	490.69	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-575.03	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,472.06	
			<i>For Powder Coated Gate And Post, Add</i>	797.37	
			<i>For 1" Mesh Fabric, Add</i>	1,334.06	
			<i>For 1-1/4" Mesh Fabric, Add</i>	858.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	533.62	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-266.81	
32 31 13	13-0385	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,960.60	219.31
			<i>For Gate With Single Barb Wire Arm, Add</i>	363.22	
			<i>For Gate With Double Barb Wire Arm, Add</i>	528.32	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-619.13	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,584.97	
			<i>For Powder Coated Gate And Post, Add</i>	858.53	
			<i>For 1" Mesh Fabric, Add</i>	1,436.38	
			<i>For 1-1/4" Mesh Fabric, Add</i>	924.57	
			<i>For 1-3/4" Mesh Fabric, Add</i>	574.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-287.28	
32 31 13	13-0386	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	4,364.15	274.38
			<i>For Gate With Single Barb Wire Arm, Add</i>	389.42	
			<i>For Gate With Double Barb Wire Arm, Add</i>	566.43	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-663.79	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,699.29	
			<i>For Powder Coated Gate And Post, Add</i>	920.45	
			<i>For 1" Mesh Fabric, Add</i>	1,539.98	
			<i>For 1-1/4" Mesh Fabric, Add</i>	991.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	615.99	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-308.00	

32 31 13 13-0387 12' Fence Height (32 31 13 13-0266)



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0388 EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	511.63	33.26
For Gate With Single Barb Wire Arm, Add	45.29	
For Gate With Double Barb Wire Arm, Add	65.88	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.20	
For Aluminized Steel Gate And Post, Add	197.63	
For Powder Coated Gate And Post, Add	107.05	
For 1" Mesh Fabric, Add	179.10	
For 1-1/4" Mesh Fabric, Add	115.28	
For 1-3/4" Mesh Fabric, Add	71.64	
For 2-1/8" Mesh Fabric, Deduct	-35.82	
32 31 13 13-0389 EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	648.86	33.26
For Gate With Single Barb Wire Arm, Add	60.38	
For Gate With Double Barb Wire Arm, Add	87.83	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.93	
For Aluminized Steel Gate And Post, Add	263.50	
For Powder Coated Gate And Post, Add	142.73	
For 1" Mesh Fabric, Add	238.79	
For 1-1/4" Mesh Fabric, Add	153.71	
For 1-3/4" Mesh Fabric, Add	95.52	
For 2-1/8" Mesh Fabric, Deduct	-47.76	
32 31 13 13-0390 EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	749.23	34.47
For Gate With Single Barb Wire Arm, Add	71.02	
For Gate With Double Barb Wire Arm, Add	103.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-121.06	
For Aluminized Steel Gate And Post, Add	309.91	
For Powder Coated Gate And Post, Add	167.87	
For 1" Mesh Fabric, Add	280.86	
For 1-1/4" Mesh Fabric, Add	180.78	
For 1-3/4" Mesh Fabric, Add	112.34	
For 2-1/8" Mesh Fabric, Deduct	-56.17	
32 31 13 13-0391 EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	871.01	42.81
For Gate With Single Barb Wire Arm, Add	81.66	
For Gate With Double Barb Wire Arm, Add	118.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.19	
For Aluminized Steel Gate And Post, Add	356.32	
For Powder Coated Gate And Post, Add	193.01	
For 1" Mesh Fabric, Add	322.92	
For 1-1/4" Mesh Fabric, Add	207.86	
For 1-3/4" Mesh Fabric, Add	129.17	
For 2-1/8" Mesh Fabric, Deduct	-64.58	
32 31 13 13-0392 EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	449.19	51.22
For Gate With Single Barb Wire Arm, Add	32.50	
For Gate With Double Barb Wire Arm, Add	47.27	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.39	
For Aluminized Steel Gate And Post, Add	141.81	
For Powder Coated Gate And Post, Add	76.81	
For 1" Mesh Fabric, Add	128.51	
For 1-1/4" Mesh Fabric, Add	82.72	
For 1-3/4" Mesh Fabric, Add	51.40	
For 2-1/8" Mesh Fabric, Deduct	-25.70	
32 31 13 13-0393 EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	507.52	59.32
For Gate With Single Barb Wire Arm, Add	36.24	
For Gate With Double Barb Wire Arm, Add	52.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.78	
For Aluminized Steel Gate And Post, Add	158.15	
For Powder Coated Gate And Post, Add	85.66	
For 1" Mesh Fabric, Add	143.32	
For 1-1/4" Mesh Fabric, Add	92.25	
For 1-3/4" Mesh Fabric, Add	57.33	
For 2-1/8" Mesh Fabric, Deduct	-28.66	
32 31 13 13-0394 EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	566.64	67.66
For Gate With Single Barb Wire Arm, Add	39.99	
For Gate With Double Barb Wire Arm, Add	58.16	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.16	
For Aluminized Steel Gate And Post, Add	174.49	
For Powder Coated Gate And Post, Add	94.52	
For 1" Mesh Fabric, Add	158.13	
For 1-1/4" Mesh Fabric, Add	101.79	
For 1-3/4" Mesh Fabric, Add	63.25	
For 2-1/8" Mesh Fabric, Deduct	-31.63	
32 31 13 13-0395 EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	625.78	75.98
For Gate With Single Barb Wire Arm, Add	43.73	
For Gate With Double Barb Wire Arm, Add	63.61	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-74.54	
For Aluminized Steel Gate And Post, Add	190.83	
For Powder Coated Gate And Post, Add	103.37	
For 1" Mesh Fabric, Add	172.94	
For 1-1/4" Mesh Fabric, Add	111.32	
For 1-3/4" Mesh Fabric, Add	69.18	
For 2-1/8" Mesh Fabric, Deduct	-34.59	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0396	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	815.50	87.13
			<i>For Gate With Single Barb Wire Arm, Add</i>	60.93	
			<i>For Gate With Double Barb Wire Arm, Add</i>	88.63	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-103.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	265.88	
			<i>For Powder Coated Gate And Post, Add</i>	144.02	
			<i>For 1" Mesh Fabric, Add</i>	240.96	
			<i>For 1-1/4" Mesh Fabric, Add</i>	155.10	
			<i>For 1-3/4" Mesh Fabric, Add</i>	96.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-48.19	
32 31 13	13-0397	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	890.32	93.80
			<i>For Gate With Single Barb Wire Arm, Add</i>	66.97	
			<i>For Gate With Double Barb Wire Arm, Add</i>	97.41	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-114.15	
			<i>For Aluminized Steel Gate And Post, Add</i>	292.22	
			<i>For Powder Coated Gate And Post, Add</i>	158.29	
			<i>For 1" Mesh Fabric, Add</i>	264.82	
			<i>For 1-1/4" Mesh Fabric, Add</i>	170.46	
			<i>For 1-3/4" Mesh Fabric, Add</i>	105.93	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-52.96	
32 31 13	13-0398	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,003.00	101.59
			<i>For Gate With Single Barb Wire Arm, Add</i>	76.76	
			<i>For Gate With Double Barb Wire Arm, Add</i>	111.65	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-130.84	
			<i>For Aluminized Steel Gate And Post, Add</i>	334.96	
			<i>For Powder Coated Gate And Post, Add</i>	181.44	
			<i>For 1" Mesh Fabric, Add</i>	303.56	
			<i>For 1-1/4" Mesh Fabric, Add</i>	195.39	
			<i>For 1-3/4" Mesh Fabric, Add</i>	121.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-60.71	
32 31 13	13-0399	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,130.06	110.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	87.70	
			<i>For Gate With Double Barb Wire Arm, Add</i>	127.56	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-149.48	
			<i>For Aluminized Steel Gate And Post, Add</i>	382.67	
			<i>For Powder Coated Gate And Post, Add</i>	207.28	
			<i>For 1" Mesh Fabric, Add</i>	346.80	
			<i>For 1-1/4" Mesh Fabric, Add</i>	223.22	
			<i>For 1-3/4" Mesh Fabric, Add</i>	138.72	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.36	
32 31 13	13-0400	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	2,912.37	121.99
			<i>For Gate With Single Barb Wire Arm, Add</i>	280.10	
			<i>For Gate With Double Barb Wire Arm, Add</i>	407.42	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-477.44	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,222.25	
			<i>For Powder Coated Gate And Post, Add</i>	662.05	
			<i>For 1" Mesh Fabric, Add</i>	1,107.66	
			<i>For 1-1/4" Mesh Fabric, Add</i>	712.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	443.06	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-221.53	
32 31 13	13-0401	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	3,238.12	135.42
			<i>For Gate With Single Barb Wire Arm, Add</i>	311.47	
			<i>For Gate With Double Barb Wire Arm, Add</i>	453.05	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-530.92	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,359.15	
			<i>For Powder Coated Gate And Post, Add</i>	736.21	
			<i>For 1" Mesh Fabric, Add</i>	1,231.73	
			<i>For 1-1/4" Mesh Fabric, Add</i>	792.84	
			<i>For 1-3/4" Mesh Fabric, Add</i>	492.69	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-246.35	
32 31 13	13-0402	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	3,571.60	152.39
			<i>For Gate With Single Barb Wire Arm, Add</i>	342.52	
			<i>For Gate With Double Barb Wire Arm, Add</i>	498.21	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-583.85	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,494.64	
			<i>For Powder Coated Gate And Post, Add</i>	809.60	
			<i>For 1" Mesh Fabric, Add</i>	1,354.52	
			<i>For 1-1/4" Mesh Fabric, Add</i>	871.88	
			<i>For 1-3/4" Mesh Fabric, Add</i>	541.81	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-270.90	
32 31 13	13-0403	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	3,921.88	174.08
			<i>For Gate With Single Barb Wire Arm, Add</i>	373.90	
			<i>For Gate With Double Barb Wire Arm, Add</i>	543.85	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-637.32	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,631.55	
			<i>For Powder Coated Gate And Post, Add</i>	883.76	
			<i>For 1" Mesh Fabric, Add</i>	1,478.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	951.74	
			<i>For 1-3/4" Mesh Fabric, Add</i>	591.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-295.72	





<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0404	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire ..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,288.73 404.62 588.54 -689.70 1,765.63 956.38 1,600.10 1,029.95 640.04 -320.02	203.28
32 31 13	13-0405	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire ..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,692.42 435.67 633.71 -742.62 1,901.12 1,029.77 1,722.89 1,108.98 689.15 -344.58	243.70
32 31 13	13-0406	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire ..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,161.39 467.05 679.34 -796.10 2,038.02 1,103.93 1,846.96 1,188.85 738.78 -369.39	304.88
32 31 13	13-0407		<b>Vinyl Coated Without Barb Wire Arm</b> <small>(32 31 13 13-0265)</small> Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13	13-0408		<b>4' Fence Height</b> <small>(32 31 13 13-0407)</small>		
32 31 13	13-0409	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	129.78 -12.95 30.05 19.35 12.02 -6.01 7.60 11.05	20.23
32 31 13	13-0410	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	152.81 -17.27 40.07 25.79 16.03 -8.01 10.13 14.74	20.23
32 31 13	13-0411	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	176.05 -20.87 48.42 31.17 19.37 -9.68 12.24 17.81	21.53
32 31 13	13-0412	EA	6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	208.19 -24.47 56.77 36.54 22.71 -11.35 14.36 20.88	25.89
32 31 13	13-0413	EA	7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	240.33 -28.07 65.12 41.91 26.05 -13.02 16.47 23.95	30.19
32 31 13	13-0414	EA	8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm ..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	272.46 -31.67 73.46 47.29 29.39 -14.69 18.58 27.02	34.47

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0415 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	304.60	38.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-35.26	
For 1" Mesh Fabric, Add	81.81	
For 1-1/4" Mesh Fabric, Add	52.66	
For 1-3/4" Mesh Fabric, Add	32.72	
For 2-1/8" Mesh Fabric, Deduct	-16.36	
For Gate With Single Barb Wire Arm, Add	20.69	
For Gate With Double Barb Wire Arm, Add	30.09	
32 31 13 13-0416 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	336.74	43.13
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.86	
For 1" Mesh Fabric, Add	90.16	
For 1-1/4" Mesh Fabric, Add	58.03	
For 1-3/4" Mesh Fabric, Add	36.06	
For 2-1/8" Mesh Fabric, Deduct	-18.03	
For Gate With Single Barb Wire Arm, Add	22.80	
For Gate With Double Barb Wire Arm, Add	33.16	
32 31 13 13-0417 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	405.83	43.13
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.82	
For 1" Mesh Fabric, Add	120.21	
For 1-1/4" Mesh Fabric, Add	77.38	
For 1-3/4" Mesh Fabric, Add	48.08	
For 2-1/8" Mesh Fabric, Deduct	-24.04	
For Gate With Single Barb Wire Arm, Add	30.40	
For Gate With Double Barb Wire Arm, Add	44.22	
32 31 13 13-0418 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	470.35	46.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.18	
For 1" Mesh Fabric, Add	144.25	
For 1-1/4" Mesh Fabric, Add	92.85	
For 1-3/4" Mesh Fabric, Add	57.70	
For 2-1/8" Mesh Fabric, Deduct	-28.85	
For Gate With Single Barb Wire Arm, Add	36.48	
For Gate With Double Barb Wire Arm, Add	53.06	
32 31 13 13-0419 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	536.29	49.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.54	
For 1" Mesh Fabric, Add	168.30	
For 1-1/4" Mesh Fabric, Add	108.33	
For 1-3/4" Mesh Fabric, Add	67.32	
For 2-1/8" Mesh Fabric, Deduct	-33.66	
For Gate With Single Barb Wire Arm, Add	42.56	
For Gate With Double Barb Wire Arm, Add	61.90	
32 31 13 13-0420 EA 16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	604.00	53.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.91	
For 1" Mesh Fabric, Add	192.34	
For 1-1/4" Mesh Fabric, Add	123.80	
For 1-3/4" Mesh Fabric, Add	76.94	
For 2-1/8" Mesh Fabric, Deduct	-38.47	
For Gate With Single Barb Wire Arm, Add	48.64	
For Gate With Double Barb Wire Arm, Add	70.75	
32 31 13 13-0421 EA 18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	695.18	65.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-93.27	
For 1" Mesh Fabric, Add	216.38	
For 1-1/4" Mesh Fabric, Add	139.28	
For 1-3/4" Mesh Fabric, Add	86.55	
For 2-1/8" Mesh Fabric, Deduct	-43.28	
For Gate With Single Barb Wire Arm, Add	54.72	
For Gate With Double Barb Wire Arm, Add	79.59	
32 31 13 13-0422 EA 20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	764.57	70.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.63	
For 1" Mesh Fabric, Add	240.42	
For 1-1/4" Mesh Fabric, Add	154.76	
For 1-3/4" Mesh Fabric, Add	96.17	
For 2-1/8" Mesh Fabric, Deduct	-48.08	
For Gate With Single Barb Wire Arm, Add	60.80	
For Gate With Double Barb Wire Arm, Add	88.43	
32 31 13 13-0423 EA 22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	836.14	76.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.99	
For 1" Mesh Fabric, Add	264.47	
For 1-1/4" Mesh Fabric, Add	170.23	
For 1-3/4" Mesh Fabric, Add	105.79	
For 2-1/8" Mesh Fabric, Deduct	-52.89	
For Gate With Single Barb Wire Arm, Add	66.88	
For Gate With Double Barb Wire Arm, Add	97.28	
32 31 13 13-0424 EA 24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	910.43	82.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.36	
For 1" Mesh Fabric, Add	288.51	
For 1-1/4" Mesh Fabric, Add	185.71	
For 1-3/4" Mesh Fabric, Add	115.40	
For 2-1/8" Mesh Fabric, Deduct	-57.70	
For Gate With Single Barb Wire Arm, Add	72.96	
For Gate With Double Barb Wire Arm, Add	106.12	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0425 EA 26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	988.17	89.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-134.72	
For 1" Mesh Fabric, Add	312.55	
For 1-1/4" Mesh Fabric, Add	201.18	
For 1-3/4" Mesh Fabric, Add	125.02	
For 2-1/8" Mesh Fabric, Deduct	-62.51	
For Gate With Single Barb Wire Arm, Add	79.04	
For Gate With Double Barb Wire Arm, Add	114.96	
32 31 13 13-0426 EA 28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,070.41	98.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-145.08	
For 1" Mesh Fabric, Add	336.59	
For 1-1/4" Mesh Fabric, Add	216.66	
For 1-3/4" Mesh Fabric, Add	134.64	
For 2-1/8" Mesh Fabric, Deduct	-67.32	
For Gate With Single Barb Wire Arm, Add	85.12	
For Gate With Double Barb Wire Arm, Add	123.80	
32 31 13 13-0427 EA 30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,158.64	109.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.45	
For 1" Mesh Fabric, Add	360.64	
For 1-1/4" Mesh Fabric, Add	232.13	
For 1-3/4" Mesh Fabric, Add	144.25	
For 2-1/8" Mesh Fabric, Deduct	-72.13	
For Gate With Single Barb Wire Arm, Add	91.20	
For Gate With Double Barb Wire Arm, Add	132.65	
<b>32 31 13 13-0428 5' Fence Height (32 31 13 13-0407)</b>		
32 31 13 13-0429 EA 3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	150.35	21.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-16.05	
For 1" Mesh Fabric, Add	37.24	
For 1-1/4" Mesh Fabric, Add	23.97	
For 1-3/4" Mesh Fabric, Add	14.90	
For 2-1/8" Mesh Fabric, Deduct	-7.45	
For Gate With Single Barb Wire Arm, Add	9.42	
For Gate With Double Barb Wire Arm, Add	13.70	
32 31 13 13-0430 EA 4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	178.89	21.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-21.40	
For 1" Mesh Fabric, Add	49.66	
For 1-1/4" Mesh Fabric, Add	31.96	
For 1-3/4" Mesh Fabric, Add	19.86	
For 2-1/8" Mesh Fabric, Deduct	-9.93	
For Gate With Single Barb Wire Arm, Add	12.56	
For Gate With Double Barb Wire Arm, Add	18.26	
32 31 13 13-0431 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	204.34	22.90
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.42	
For 1" Mesh Fabric, Add	58.96	
For 1-1/4" Mesh Fabric, Add	37.95	
For 1-3/4" Mesh Fabric, Add	23.59	
For 2-1/8" Mesh Fabric, Deduct	-11.79	
For Gate With Single Barb Wire Arm, Add	14.91	
For Gate With Double Barb Wire Arm, Add	21.69	
32 31 13 13-0432 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	239.49	27.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.43	
For 1" Mesh Fabric, Add	68.27	
For 1-1/4" Mesh Fabric, Add	43.95	
For 1-3/4" Mesh Fabric, Add	27.31	
For 2-1/8" Mesh Fabric, Deduct	-13.65	
For Gate With Single Barb Wire Arm, Add	17.26	
For Gate With Double Barb Wire Arm, Add	25.11	
32 31 13 13-0433 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	274.66	32.04
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.44	
For 1" Mesh Fabric, Add	77.59	
For 1-1/4" Mesh Fabric, Add	49.94	
For 1-3/4" Mesh Fabric, Add	31.03	
For 2-1/8" Mesh Fabric, Deduct	-15.52	
For Gate With Single Barb Wire Arm, Add	19.62	
For Gate With Double Barb Wire Arm, Add	28.54	
32 31 13 13-0434 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	310.62	36.90
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.46	
For 1" Mesh Fabric, Add	86.90	
For 1-1/4" Mesh Fabric, Add	55.93	
For 1-3/4" Mesh Fabric, Add	34.76	
For 2-1/8" Mesh Fabric, Deduct	-17.38	
For Gate With Single Barb Wire Arm, Add	21.97	
For Gate With Double Barb Wire Arm, Add	31.96	
32 31 13 13-0435 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	345.78	41.51
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.47	
For 1" Mesh Fabric, Add	96.20	
For 1-1/4" Mesh Fabric, Add	61.92	
For 1-3/4" Mesh Fabric, Add	38.48	
For 2-1/8" Mesh Fabric, Deduct	-19.24	
For Gate With Single Barb Wire Arm, Add	24.33	
For Gate With Double Barb Wire Arm, Add	35.39	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0436 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	380.94	46.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.48	
For 1" Mesh Fabric, Add	105.51	
For 1-1/4" Mesh Fabric, Add	67.92	
For 1-3/4" Mesh Fabric, Add	42.21	
For 2-1/8" Mesh Fabric, Deduct	-21.10	
For Gate With Single Barb Wire Arm, Add	26.68	
For Gate With Double Barb Wire Arm, Add	38.81	
32 31 13 13-0437 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	481.17	46.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.21	
For 1" Mesh Fabric, Add	148.96	
For 1-1/4" Mesh Fabric, Add	95.88	
For 1-3/4" Mesh Fabric, Add	59.58	
For 2-1/8" Mesh Fabric, Deduct	-29.79	
For Gate With Single Barb Wire Arm, Add	37.67	
For Gate With Double Barb Wire Arm, Add	54.79	
32 31 13 13-0438 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	560.32	49.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.05	
For 1" Mesh Fabric, Add	178.75	
For 1-1/4" Mesh Fabric, Add	115.06	
For 1-3/4" Mesh Fabric, Add	71.50	
For 2-1/8" Mesh Fabric, Deduct	-35.75	
For Gate With Single Barb Wire Arm, Add	45.20	
For Gate With Double Barb Wire Arm, Add	65.75	
32 31 13 13-0439 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	641.25	53.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.89	
For 1" Mesh Fabric, Add	208.54	
For 1-1/4" Mesh Fabric, Add	134.23	
For 1-3/4" Mesh Fabric, Add	83.42	
For 2-1/8" Mesh Fabric, Deduct	-41.71	
For Gate With Single Barb Wire Arm, Add	52.74	
For Gate With Double Barb Wire Arm, Add	76.71	
32 31 13 13-0440 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	745.65	65.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.73	
For 1" Mesh Fabric, Add	238.34	
For 1-1/4" Mesh Fabric, Add	153.41	
For 1-3/4" Mesh Fabric, Add	95.33	
For 2-1/8" Mesh Fabric, Deduct	-47.67	
For Gate With Single Barb Wire Arm, Add	60.27	
For Gate With Double Barb Wire Arm, Add	87.66	
32 31 13 13-0441 EA 18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	828.25	70.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.57	
For 1" Mesh Fabric, Add	268.13	
For 1-1/4" Mesh Fabric, Add	172.59	
For 1-3/4" Mesh Fabric, Add	107.25	
For 2-1/8" Mesh Fabric, Deduct	-53.63	
For Gate With Single Barb Wire Arm, Add	67.80	
For Gate With Double Barb Wire Arm, Add	98.62	
32 31 13 13-0442 EA 20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	913.04	76.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-128.41	
For 1" Mesh Fabric, Add	297.92	
For 1-1/4" Mesh Fabric, Add	191.76	
For 1-3/4" Mesh Fabric, Add	119.17	
For 2-1/8" Mesh Fabric, Deduct	-59.58	
For Gate With Single Barb Wire Arm, Add	75.34	
For Gate With Double Barb Wire Arm, Add	109.58	
32 31 13 13-0443 EA 22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,000.55	82.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.26	
For 1" Mesh Fabric, Add	327.71	
For 1-1/4" Mesh Fabric, Add	210.94	
For 1-3/4" Mesh Fabric, Add	131.08	
For 2-1/8" Mesh Fabric, Deduct	-65.54	
For Gate With Single Barb Wire Arm, Add	82.87	
For Gate With Double Barb Wire Arm, Add	120.54	
32 31 13 13-0444 EA 24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,091.51	89.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-154.10	
For 1" Mesh Fabric, Add	357.50	
For 1-1/4" Mesh Fabric, Add	230.12	
For 1-3/4" Mesh Fabric, Add	143.00	
For 2-1/8" Mesh Fabric, Deduct	-71.50	
For Gate With Single Barb Wire Arm, Add	90.40	
For Gate With Double Barb Wire Arm, Add	131.50	
32 31 13 13-0445 EA 26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,186.96	98.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-166.94	
For 1" Mesh Fabric, Add	387.29	
For 1-1/4" Mesh Fabric, Add	249.29	
For 1-3/4" Mesh Fabric, Add	154.92	
For 2-1/8" Mesh Fabric, Deduct	-77.46	
For Gate With Single Barb Wire Arm, Add	97.94	
For Gate With Double Barb Wire Arm, Add	142.45	



		<b>Exterior Improvements</b>	<b>32</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0446 EA 28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,288.41	109.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.78	
For 1" Mesh Fabric, Add	417.09	
For 1-1/4" Mesh Fabric, Add	268.47	
For 1-3/4" Mesh Fabric, Add	166.83	
For 2-1/8" Mesh Fabric, Deduct	-83.42	
For Gate With Single Barb Wire Arm, Add	105.47	
For Gate With Double Barb Wire Arm, Add	153.41	
32 31 13 13-0447 EA 30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,398.10	123.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-192.62	
For 1" Mesh Fabric, Add	446.88	
For 1-1/4" Mesh Fabric, Add	287.65	
For 1-3/4" Mesh Fabric, Add	178.75	
For 2-1/8" Mesh Fabric, Deduct	-89.38	
For Gate With Single Barb Wire Arm, Add	113.00	
For Gate With Double Barb Wire Arm, Add	164.37	
<b>32 31 13 13-0448 6' Fence Height (32 31 13 13-0407)</b>		
32 31 13 13-0449 EA 3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	160.85	23.07
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-17.15	
For 1" Mesh Fabric, Add	39.80	
For 1-1/4" Mesh Fabric, Add	25.62	
For 1-3/4" Mesh Fabric, Add	15.92	
For 2-1/8" Mesh Fabric, Deduct	-7.96	
For Gate With Single Barb Wire Arm, Add	10.06	
For Gate With Double Barb Wire Arm, Add	14.64	
32 31 13 13-0450 EA 4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	191.35	23.07
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-22.87	
For 1" Mesh Fabric, Add	53.07	
For 1-1/4" Mesh Fabric, Add	34.16	
For 1-3/4" Mesh Fabric, Add	21.23	
For 2-1/8" Mesh Fabric, Deduct	-10.61	
For Gate With Single Barb Wire Arm, Add	13.42	
For Gate With Double Barb Wire Arm, Add	19.52	
32 31 13 13-0451 EA 5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	218.50	24.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.16	
For 1" Mesh Fabric, Add	63.01	
For 1-1/4" Mesh Fabric, Add	40.56	
For 1-3/4" Mesh Fabric, Add	25.21	
For 2-1/8" Mesh Fabric, Deduct	-12.60	
For Gate With Single Barb Wire Arm, Add	15.93	
For Gate With Double Barb Wire Arm, Add	23.18	
32 31 13 13-0452 EA 6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	256.75	29.62
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-31.45	
For 1" Mesh Fabric, Add	72.97	
For 1-1/4" Mesh Fabric, Add	46.97	
For 1-3/4" Mesh Fabric, Add	29.19	
For 2-1/8" Mesh Fabric, Deduct	-14.59	
For Gate With Single Barb Wire Arm, Add	18.45	
For Gate With Double Barb Wire Arm, Add	26.84	
32 31 13 13-0453 EA 7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	295.00	34.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-35.74	
For 1" Mesh Fabric, Add	82.92	
For 1-1/4" Mesh Fabric, Add	53.37	
For 1-3/4" Mesh Fabric, Add	33.17	
For 2-1/8" Mesh Fabric, Deduct	-16.58	
For Gate With Single Barb Wire Arm, Add	20.97	
For Gate With Double Barb Wire Arm, Add	30.50	
32 31 13 13-0454 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	332.44	39.66
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.03	
For 1" Mesh Fabric, Add	92.86	
For 1-1/4" Mesh Fabric, Add	59.77	
For 1-3/4" Mesh Fabric, Add	37.15	
For 2-1/8" Mesh Fabric, Deduct	-18.57	
For Gate With Single Barb Wire Arm, Add	23.48	
For Gate With Double Barb Wire Arm, Add	34.16	
32 31 13 13-0455 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	370.70	44.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.32	
For 1" Mesh Fabric, Add	102.82	
For 1-1/4" Mesh Fabric, Add	66.18	
For 1-3/4" Mesh Fabric, Add	41.13	
For 2-1/8" Mesh Fabric, Deduct	-20.56	
For Gate With Single Barb Wire Arm, Add	26.00	
For Gate With Double Barb Wire Arm, Add	37.82	
32 31 13 13-0456 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	408.95	49.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.61	
For 1" Mesh Fabric, Add	112.77	
For 1-1/4" Mesh Fabric, Add	72.58	
For 1-3/4" Mesh Fabric, Add	45.11	
For 2-1/8" Mesh Fabric, Deduct	-22.55	
For Gate With Single Barb Wire Arm, Add	28.52	
For Gate With Double Barb Wire Arm, Add	41.48	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0457 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	515.37	49.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.62	
For 1" Mesh Fabric, Add	159.20	
For 1-1/4" Mesh Fabric, Add	102.47	
For 1-3/4" Mesh Fabric, Add	63.68	
For 2-1/8" Mesh Fabric, Deduct	-31.84	
For Gate With Single Barb Wire Arm, Add	40.26	
For Gate With Double Barb Wire Arm, Add	58.56	
32 31 13 13-0458 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	601.00	53.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.34	
For 1" Mesh Fabric, Add	191.03	
For 1-1/4" Mesh Fabric, Add	122.96	
For 1-3/4" Mesh Fabric, Add	76.41	
For 2-1/8" Mesh Fabric, Deduct	-38.21	
For Gate With Single Barb Wire Arm, Add	48.31	
For Gate With Double Barb Wire Arm, Add	70.27	
32 31 13 13-0459 EA 14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	724.22	70.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.07	
For 1" Mesh Fabric, Add	222.87	
For 1-1/4" Mesh Fabric, Add	143.46	
For 1-3/4" Mesh Fabric, Add	89.15	
For 2-1/8" Mesh Fabric, Deduct	-44.57	
For Gate With Single Barb Wire Arm, Add	56.36	
For Gate With Double Barb Wire Arm, Add	81.98	
32 31 13 13-0460 EA 16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	813.72	76.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.79	
For 1" Mesh Fabric, Add	254.71	
For 1-1/4" Mesh Fabric, Add	163.95	
For 1-3/4" Mesh Fabric, Add	101.89	
For 2-1/8" Mesh Fabric, Deduct	-50.94	
For Gate With Single Barb Wire Arm, Add	64.41	
For Gate With Double Barb Wire Arm, Add	93.69	
32 31 13 13-0461 EA 18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	905.93	82.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-123.51	
For 1" Mesh Fabric, Add	286.55	
For 1-1/4" Mesh Fabric, Add	184.45	
For 1-3/4" Mesh Fabric, Add	114.62	
For 2-1/8" Mesh Fabric, Deduct	-57.31	
For Gate With Single Barb Wire Arm, Add	72.46	
For Gate With Double Barb Wire Arm, Add	105.40	
32 31 13 13-0462 EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,015.12	89.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.77	
For 1" Mesh Fabric, Add	324.28	
For 1-1/4" Mesh Fabric, Add	208.73	
For 1-3/4" Mesh Fabric, Add	129.71	
For 2-1/8" Mesh Fabric, Deduct	-64.86	
For Gate With Single Barb Wire Arm, Add	82.00	
For Gate With Double Barb Wire Arm, Add	119.27	
32 31 13 13-0463 EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,104.21	98.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.42	
For 1" Mesh Fabric, Add	351.30	
For 1-1/4" Mesh Fabric, Add	226.12	
For 1-3/4" Mesh Fabric, Add	140.52	
For 2-1/8" Mesh Fabric, Deduct	-70.26	
For Gate With Single Barb Wire Arm, Add	88.83	
For Gate With Double Barb Wire Arm, Add	129.21	
32 31 13 13-0464 EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,207.91	109.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.69	
For 1" Mesh Fabric, Add	382.07	
For 1-1/4" Mesh Fabric, Add	245.93	
For 1-3/4" Mesh Fabric, Add	152.83	
For 2-1/8" Mesh Fabric, Deduct	-76.41	
For Gate With Single Barb Wire Arm, Add	96.62	
For Gate With Double Barb Wire Arm, Add	140.53	
32 31 13 13-0465 EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,322.30	123.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-178.41	
For 1" Mesh Fabric, Add	413.91	
For 1-1/4" Mesh Fabric, Add	266.42	
For 1-3/4" Mesh Fabric, Add	165.56	
For 2-1/8" Mesh Fabric, Deduct	-82.78	
For Gate With Single Barb Wire Arm, Add	104.67	
For Gate With Double Barb Wire Arm, Add	152.24	
32 31 13 13-0466 EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,448.46	141.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-192.13	
For 1" Mesh Fabric, Add	445.75	
For 1-1/4" Mesh Fabric, Add	286.92	
For 1-3/4" Mesh Fabric, Add	178.30	
For 2-1/8" Mesh Fabric, Deduct	-89.15	
For Gate With Single Barb Wire Arm, Add	112.72	
For Gate With Double Barb Wire Arm, Add	163.95	



		<b>Exterior Improvements</b>	<b>32</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0467 EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,592.27	164.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-205.86	
For 1" Mesh Fabric, Add	477.59	
For 1-1/4" Mesh Fabric, Add	307.41	
For 1-3/4" Mesh Fabric, Add	191.03	
For 2-1/8" Mesh Fabric, Deduct	-95.52	
For Gate With Single Barb Wire Arm, Add	120.77	
For Gate With Double Barb Wire Arm, Add	175.66	
<b>32 31 13 13-0468 7' Fence Height (32 31 13 13-0407)</b>		
32 31 13 13-0469 EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	170.79	24.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-18.02	
For 1" Mesh Fabric, Add	41.80	
For 1-1/4" Mesh Fabric, Add	26.91	
For 1-3/4" Mesh Fabric, Add	16.72	
For 2-1/8" Mesh Fabric, Deduct	-8.36	
For Gate With Single Barb Wire Arm, Add	10.57	
For Gate With Double Barb Wire Arm, Add	15.37	
32 31 13 13-0470 EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	202.83	24.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-24.02	
For 1" Mesh Fabric, Add	55.74	
For 1-1/4" Mesh Fabric, Add	35.88	
For 1-3/4" Mesh Fabric, Add	22.29	
For 2-1/8" Mesh Fabric, Deduct	-11.15	
For Gate With Single Barb Wire Arm, Add	14.09	
For Gate With Double Barb Wire Arm, Add	20.50	
32 31 13 13-0471 EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	230.66	26.13
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.53	
For 1" Mesh Fabric, Add	66.19	
For 1-1/4" Mesh Fabric, Add	42.60	
For 1-3/4" Mesh Fabric, Add	26.48	
For 2-1/8" Mesh Fabric, Deduct	-13.24	
For Gate With Single Barb Wire Arm, Add	16.74	
For Gate With Double Barb Wire Arm, Add	24.35	
32 31 13 13-0472 EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	271.67	31.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.03	
For 1" Mesh Fabric, Add	76.64	
For 1-1/4" Mesh Fabric, Add	49.33	
For 1-3/4" Mesh Fabric, Add	30.66	
For 2-1/8" Mesh Fabric, Deduct	-15.33	
For Gate With Single Barb Wire Arm, Add	19.38	
For Gate With Double Barb Wire Arm, Add	28.19	
32 31 13 13-0473 EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	311.88	37.23
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.54	
For 1" Mesh Fabric, Add	87.09	
For 1-1/4" Mesh Fabric, Add	56.06	
For 1-3/4" Mesh Fabric, Add	34.84	
For 2-1/8" Mesh Fabric, Deduct	-17.42	
For Gate With Single Barb Wire Arm, Add	22.02	
For Gate With Double Barb Wire Arm, Add	32.03	
32 31 13 13-0474 EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	352.91	42.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.05	
For 1" Mesh Fabric, Add	97.54	
For 1-1/4" Mesh Fabric, Add	62.79	
For 1-3/4" Mesh Fabric, Add	39.02	
For 2-1/8" Mesh Fabric, Deduct	-19.51	
For Gate With Single Barb Wire Arm, Add	24.67	
For Gate With Double Barb Wire Arm, Add	35.88	
32 31 13 13-0475 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	393.11	48.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.55	
For 1" Mesh Fabric, Add	107.99	
For 1-1/4" Mesh Fabric, Add	69.51	
For 1-3/4" Mesh Fabric, Add	43.20	
For 2-1/8" Mesh Fabric, Deduct	-21.60	
For Gate With Single Barb Wire Arm, Add	27.31	
For Gate With Double Barb Wire Arm, Add	39.72	
32 31 13 13-0476 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	434.13	53.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.05	
For 1" Mesh Fabric, Add	118.45	
For 1-1/4" Mesh Fabric, Add	76.24	
For 1-3/4" Mesh Fabric, Add	47.38	
For 2-1/8" Mesh Fabric, Deduct	-23.69	
For Gate With Single Barb Wire Arm, Add	29.95	
For Gate With Double Barb Wire Arm, Add	43.57	
32 31 13 13-0477 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	546.24	53.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.08	
For 1" Mesh Fabric, Add	167.21	
For 1-1/4" Mesh Fabric, Add	107.63	
For 1-3/4" Mesh Fabric, Add	66.89	
For 2-1/8" Mesh Fabric, Deduct	-33.44	
For Gate With Single Barb Wire Arm, Add	42.28	
For Gate With Double Barb Wire Arm, Add	61.50	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0478 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	673.14	70.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.49	
For 1" Mesh Fabric, Add	200.65	
For 1-1/4" Mesh Fabric, Add	129.16	
For 1-3/4" Mesh Fabric, Add	80.26	
For 2-1/8" Mesh Fabric, Deduct	-40.13	
For Gate With Single Barb Wire Arm, Add	50.74	
For Gate With Double Barb Wire Arm, Add	73.80	
32 31 13 13-0479 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	766.33	76.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.91	
For 1" Mesh Fabric, Add	234.10	
For 1-1/4" Mesh Fabric, Add	150.68	
For 1-3/4" Mesh Fabric, Add	93.64	
For 2-1/8" Mesh Fabric, Deduct	-46.82	
For Gate With Single Barb Wire Arm, Add	59.20	
For Gate With Double Barb Wire Arm, Add	86.11	
32 31 13 13-0480 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	862.22	82.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.32	
For 1" Mesh Fabric, Add	267.54	
For 1-1/4" Mesh Fabric, Add	172.21	
For 1-3/4" Mesh Fabric, Add	107.02	
For 2-1/8" Mesh Fabric, Deduct	-53.51	
For Gate With Single Barb Wire Arm, Add	67.65	
For Gate With Double Barb Wire Arm, Add	98.40	
32 31 13 13-0481 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	961.58	89.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-129.74	
For 1" Mesh Fabric, Add	300.99	
For 1-1/4" Mesh Fabric, Add	193.74	
For 1-3/4" Mesh Fabric, Add	120.39	
For 2-1/8" Mesh Fabric, Deduct	-60.20	
For Gate With Single Barb Wire Arm, Add	76.11	
For Gate With Double Barb Wire Arm, Add	110.71	
32 31 13 13-0482 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,065.42	98.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.15	
For 1" Mesh Fabric, Add	334.42	
For 1-1/4" Mesh Fabric, Add	215.26	
For 1-3/4" Mesh Fabric, Add	133.77	
For 2-1/8" Mesh Fabric, Deduct	-66.88	
For Gate With Single Barb Wire Arm, Add	84.57	
For Gate With Double Barb Wire Arm, Add	123.01	
32 31 13 13-0483 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,175.25	109.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.56	
For 1" Mesh Fabric, Add	367.86	
For 1-1/4" Mesh Fabric, Add	236.78	
For 1-3/4" Mesh Fabric, Add	147.14	
For 2-1/8" Mesh Fabric, Deduct	-73.57	
For Gate With Single Barb Wire Arm, Add	93.02	
For Gate With Double Barb Wire Arm, Add	135.31	
32 31 13 13-0484 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,293.34	123.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.98	
For 1" Mesh Fabric, Add	401.31	
For 1-1/4" Mesh Fabric, Add	258.31	
For 1-3/4" Mesh Fabric, Add	160.52	
For 2-1/8" Mesh Fabric, Deduct	-80.26	
For Gate With Single Barb Wire Arm, Add	101.48	
For Gate With Double Barb Wire Arm, Add	147.61	
32 31 13 13-0485 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,423.18	141.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-187.39	
For 1" Mesh Fabric, Add	434.75	
For 1-1/4" Mesh Fabric, Add	279.84	
For 1-3/4" Mesh Fabric, Add	173.90	
For 2-1/8" Mesh Fabric, Deduct	-86.95	
For Gate With Single Barb Wire Arm, Add	109.94	
For Gate With Double Barb Wire Arm, Add	159.91	
32 31 13 13-0486 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,570.67	164.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-201.81	
For 1" Mesh Fabric, Add	468.19	
For 1-1/4" Mesh Fabric, Add	301.36	
For 1-3/4" Mesh Fabric, Add	187.28	
For 2-1/8" Mesh Fabric, Deduct	-93.64	
For Gate With Single Barb Wire Arm, Add	118.39	
For Gate With Double Barb Wire Arm, Add	172.21	
32 31 13 13-0487 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,746.44	197.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-216.22	
For 1" Mesh Fabric, Add	501.64	
For 1-1/4" Mesh Fabric, Add	322.89	
For 1-3/4" Mesh Fabric, Add	200.66	
For 2-1/8" Mesh Fabric, Deduct	-100.33	
For Gate With Single Barb Wire Arm, Add	126.85	
For Gate With Double Barb Wire Arm, Add	184.51	

32 31 13 13-0488 8' Fence Height (32 31 13 13-0407)



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0489 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	197.41	26.95
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-21.84	
For 1" Mesh Fabric, Add	50.67	
For 1-1/4" Mesh Fabric, Add	32.61	
For 1-3/4" Mesh Fabric, Add	20.27	
For 2-1/8" Mesh Fabric, Deduct	-10.13	
For Gate With Single Barb Wire Arm, Add	12.81	
For Gate With Double Barb Wire Arm, Add	18.64	
32 31 13 13-0490 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	236.23	26.95
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.12	
For 1" Mesh Fabric, Add	67.56	
For 1-1/4" Mesh Fabric, Add	43.48	
For 1-3/4" Mesh Fabric, Add	27.02	
For 2-1/8" Mesh Fabric, Deduct	-13.51	
For Gate With Single Barb Wire Arm, Add	17.08	
For Gate With Double Barb Wire Arm, Add	24.85	
32 31 13 13-0491 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	262.12	26.95
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.97	
For 1" Mesh Fabric, Add	78.82	
For 1-1/4" Mesh Fabric, Add	50.73	
For 1-3/4" Mesh Fabric, Add	31.53	
For 2-1/8" Mesh Fabric, Deduct	-15.76	
For Gate With Single Barb Wire Arm, Add	19.93	
For Gate With Double Barb Wire Arm, Add	28.99	
32 31 13 13-0492 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	309.03	33.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.83	
For 1" Mesh Fabric, Add	90.08	
For 1-1/4" Mesh Fabric, Add	57.98	
For 1-3/4" Mesh Fabric, Add	36.03	
For 2-1/8" Mesh Fabric, Deduct	-18.02	
For Gate With Single Barb Wire Arm, Add	22.78	
For Gate With Double Barb Wire Arm, Add	33.13	
32 31 13 13-0493 EA 7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	355.96	40.95
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.68	
For 1" Mesh Fabric, Add	101.34	
For 1-1/4" Mesh Fabric, Add	65.23	
For 1-3/4" Mesh Fabric, Add	40.54	
For 2-1/8" Mesh Fabric, Deduct	-20.27	
For Gate With Single Barb Wire Arm, Add	25.63	
For Gate With Double Barb Wire Arm, Add	37.27	
32 31 13 13-0494 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	402.07	47.66
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.53	
For 1" Mesh Fabric, Add	112.60	
For 1-1/4" Mesh Fabric, Add	72.48	
For 1-3/4" Mesh Fabric, Add	45.04	
For 2-1/8" Mesh Fabric, Deduct	-22.52	
For Gate With Single Barb Wire Arm, Add	28.47	
For Gate With Double Barb Wire Arm, Add	41.41	
32 31 13 13-0495 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	449.00	54.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.39	
For 1" Mesh Fabric, Add	123.85	
For 1-1/4" Mesh Fabric, Add	79.72	
For 1-3/4" Mesh Fabric, Add	49.54	
For 2-1/8" Mesh Fabric, Deduct	-24.77	
For Gate With Single Barb Wire Arm, Add	31.32	
For Gate With Double Barb Wire Arm, Add	45.56	
32 31 13 13-0496 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	495.92	61.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-58.24	
For 1" Mesh Fabric, Add	135.12	
For 1-1/4" Mesh Fabric, Add	86.97	
For 1-3/4" Mesh Fabric, Add	54.05	
For 2-1/8" Mesh Fabric, Deduct	-27.02	
For Gate With Single Barb Wire Arm, Add	34.17	
For Gate With Double Barb Wire Arm, Add	49.70	
32 31 13 13-0497 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	677.78	70.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-87.36	
For 1" Mesh Fabric, Add	202.67	
For 1-1/4" Mesh Fabric, Add	130.45	
For 1-3/4" Mesh Fabric, Add	81.07	
For 2-1/8" Mesh Fabric, Deduct	-40.53	
For Gate With Single Barb Wire Arm, Add	51.25	
For Gate With Double Barb Wire Arm, Add	74.55	
32 31 13 13-0498 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	787.26	76.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.83	
For 1" Mesh Fabric, Add	243.20	
For 1-1/4" Mesh Fabric, Add	156.55	
For 1-3/4" Mesh Fabric, Add	97.28	
For 2-1/8" Mesh Fabric, Deduct	-48.64	
For Gate With Single Barb Wire Arm, Add	61.50	
For Gate With Double Barb Wire Arm, Add	89.45	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0499 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	899.46	82.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.30	
For 1" Mesh Fabric, Add	283.74	
For 1-1/4" Mesh Fabric, Add	182.64	
For 1-3/4" Mesh Fabric, Add	113.49	
For 2-1/8" Mesh Fabric, Deduct	-56.75	
For Gate With Single Barb Wire Arm, Add	71.75	
For Gate With Double Barb Wire Arm, Add	104.36	
32 31 13 13-0500 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,015.11	89.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.77	
For 1" Mesh Fabric, Add	324.27	
For 1-1/4" Mesh Fabric, Add	208.73	
For 1-3/4" Mesh Fabric, Add	129.71	
For 2-1/8" Mesh Fabric, Deduct	-64.85	
For Gate With Single Barb Wire Arm, Add	82.00	
For Gate With Double Barb Wire Arm, Add	119.27	
32 31 13 13-0501 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,135.26	98.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-157.24	
For 1" Mesh Fabric, Add	364.80	
For 1-1/4" Mesh Fabric, Add	234.82	
For 1-3/4" Mesh Fabric, Add	145.92	
For 2-1/8" Mesh Fabric, Deduct	-72.96	
For Gate With Single Barb Wire Arm, Add	92.25	
For Gate With Double Barb Wire Arm, Add	134.18	
32 31 13 13-0502 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,261.40	109.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-174.71	
For 1" Mesh Fabric, Add	405.34	
For 1-1/4" Mesh Fabric, Add	260.91	
For 1-3/4" Mesh Fabric, Add	162.13	
For 2-1/8" Mesh Fabric, Deduct	-81.07	
For Gate With Single Barb Wire Arm, Add	102.50	
For Gate With Double Barb Wire Arm, Add	149.09	
32 31 13 13-0503 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,395.78	123.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-192.19	
For 1" Mesh Fabric, Add	445.87	
For 1-1/4" Mesh Fabric, Add	287.00	
For 1-3/4" Mesh Fabric, Add	178.35	
For 2-1/8" Mesh Fabric, Deduct	-89.17	
For Gate With Single Barb Wire Arm, Add	112.75	
For Gate With Double Barb Wire Arm, Add	164.00	
32 31 13 13-0504 EA 24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,541.92	141.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-209.66	
For 1" Mesh Fabric, Add	486.40	
For 1-1/4" Mesh Fabric, Add	313.09	
For 1-3/4" Mesh Fabric, Add	194.56	
For 2-1/8" Mesh Fabric, Deduct	-97.28	
For Gate With Single Barb Wire Arm, Add	123.00	
For Gate With Double Barb Wire Arm, Add	178.91	
32 31 13 13-0505 EA 26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,705.73	164.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.13	
For 1" Mesh Fabric, Add	526.94	
For 1-1/4" Mesh Fabric, Add	339.18	
For 1-3/4" Mesh Fabric, Add	210.78	
For 2-1/8" Mesh Fabric, Deduct	-105.39	
For Gate With Single Barb Wire Arm, Add	133.25	
For Gate With Double Barb Wire Arm, Add	193.82	
32 31 13 13-0506 EA 28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,897.79	197.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.60	
For 1" Mesh Fabric, Add	567.47	
For 1-1/4" Mesh Fabric, Add	365.27	
For 1-3/4" Mesh Fabric, Add	226.99	
For 2-1/8" Mesh Fabric, Deduct	-113.49	
For Gate With Single Barb Wire Arm, Add	143.50	
For Gate With Double Barb Wire Arm, Add	208.73	
32 31 13 13-0507 EA 30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,139.28	246.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-262.07	
For 1" Mesh Fabric, Add	608.01	
For 1-1/4" Mesh Fabric, Add	391.36	
For 1-3/4" Mesh Fabric, Add	243.20	
For 2-1/8" Mesh Fabric, Deduct	-121.60	
For Gate With Single Barb Wire Arm, Add	153.75	
For Gate With Double Barb Wire Arm, Add	223.64	
<b>32 31 13 13-0508 10' Fence Height (32 31 13 13-0407)</b>		
32 31 13 13-0509 EA 3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	225.03	29.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.34	
For 1" Mesh Fabric, Add	58.78	
For 1-1/4" Mesh Fabric, Add	37.83	
For 1-3/4" Mesh Fabric, Add	23.51	
For 2-1/8" Mesh Fabric, Deduct	-11.76	
For Gate With Single Barb Wire Arm, Add	14.86	
For Gate With Double Barb Wire Arm, Add	21.62	





	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0510 EA 4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	270.07	29.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.78	
For 1" Mesh Fabric, Add	78.37	
For 1-1/4" Mesh Fabric, Add	50.44	
For 1-3/4" Mesh Fabric, Add	31.35	
For 2-1/8" Mesh Fabric, Deduct	-15.67	
For Gate With Single Barb Wire Arm, Add	19.82	
For Gate With Double Barb Wire Arm, Add	28.83	
32 31 13 13-0511 EA 5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm.....	304.06	31.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.41	
For 1" Mesh Fabric, Add	91.43	
For 1-1/4" Mesh Fabric, Add	58.85	
For 1-3/4" Mesh Fabric, Add	36.57	
For 2-1/8" Mesh Fabric, Deduct	-18.29	
For Gate With Single Barb Wire Arm, Add	23.12	
For Gate With Double Barb Wire Arm, Add	33.63	
32 31 13 13-0512 EA 6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	356.74	38.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.04	
For 1" Mesh Fabric, Add	104.49	
For 1-1/4" Mesh Fabric, Add	67.26	
For 1-3/4" Mesh Fabric, Add	41.80	
For 2-1/8" Mesh Fabric, Deduct	-20.90	
For Gate With Single Barb Wire Arm, Add	26.42	
For Gate With Double Barb Wire Arm, Add	38.43	
32 31 13 13-0513 EA 7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	408.62	46.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.67	
For 1" Mesh Fabric, Add	117.55	
For 1-1/4" Mesh Fabric, Add	75.67	
For 1-3/4" Mesh Fabric, Add	47.02	
For 2-1/8" Mesh Fabric, Deduct	-23.51	
For Gate With Single Barb Wire Arm, Add	29.73	
For Gate With Double Barb Wire Arm, Add	43.24	
32 31 13 13-0514 EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	461.30	53.65
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.30	
For 1" Mesh Fabric, Add	130.62	
For 1-1/4" Mesh Fabric, Add	84.08	
For 1-3/4" Mesh Fabric, Add	52.25	
For 2-1/8" Mesh Fabric, Deduct	-26.12	
For Gate With Single Barb Wire Arm, Add	33.03	
For Gate With Double Barb Wire Arm, Add	48.04	
32 31 13 13-0515 EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	513.18	60.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.93	
For 1" Mesh Fabric, Add	143.68	
For 1-1/4" Mesh Fabric, Add	92.48	
For 1-3/4" Mesh Fabric, Add	57.47	
For 2-1/8" Mesh Fabric, Deduct	-28.74	
For Gate With Single Barb Wire Arm, Add	36.33	
For Gate With Double Barb Wire Arm, Add	52.85	
32 31 13 13-0516 EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	565.87	68.46
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.56	
For 1" Mesh Fabric, Add	156.74	
For 1-1/4" Mesh Fabric, Add	100.89	
For 1-3/4" Mesh Fabric, Add	62.70	
For 2-1/8" Mesh Fabric, Deduct	-31.35	
For Gate With Single Barb Wire Arm, Add	39.64	
For Gate With Double Barb Wire Arm, Add	57.65	
32 31 13 13-0517 EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	775.88	78.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.34	
For 1" Mesh Fabric, Add	235.10	
For 1-1/4" Mesh Fabric, Add	151.33	
For 1-3/4" Mesh Fabric, Add	94.04	
For 2-1/8" Mesh Fabric, Deduct	-47.02	
For Gate With Single Barb Wire Arm, Add	59.45	
For Gate With Double Barb Wire Arm, Add	86.48	
32 31 13 13-0518 EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	902.00	84.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-121.61	
For 1" Mesh Fabric, Add	282.13	
For 1-1/4" Mesh Fabric, Add	181.60	
For 1-3/4" Mesh Fabric, Add	112.85	
For 2-1/8" Mesh Fabric, Deduct	-56.43	
For Gate With Single Barb Wire Arm, Add	71.34	
For Gate With Double Barb Wire Arm, Add	103.77	
32 31 13 13-0519 EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,031.31	91.49
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.87	
For 1" Mesh Fabric, Add	329.15	
For 1-1/4" Mesh Fabric, Add	211.86	
For 1-3/4" Mesh Fabric, Add	131.66	
For 2-1/8" Mesh Fabric, Deduct	-65.83	
For Gate With Single Barb Wire Arm, Add	83.23	
For Gate With Double Barb Wire Arm, Add	121.07	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0520	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,164.26 -162.14 376.17 242.13 150.47 -75.23 95.12 138.36	99.74
32 31 13	13-0521	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,302.44 -182.41 423.19 272.40 169.28 -84.64 107.01 155.66	109.75
32 31 13	13-0522	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,446.97 -202.68 470.21 302.67 188.09 -94.04 118.90 172.95	121.89
32 31 13	13-0523	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,601.01 -222.95 517.23 332.93 206.89 -103.45 130.79 190.25	137.19
32 31 13	13-0524	EA	24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,767.68 -243.21 564.26 363.20 225.70 -112.85 142.69 207.54	156.65
32 31 13	13-0525	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,954.54 -263.48 611.28 393.46 244.51 -122.26 154.58 224.84	182.89
32 31 13	13-0526	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,171.91 -283.75 658.30 423.73 263.32 -131.66 166.47 242.13	219.31
32 31 13	13-0527	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,445.38 -304.02 705.32 454.00 282.13 -141.06 178.36 259.43	274.38
32 31 13	13-0528		<b>12' Fence Height</b> <small>(32 31 13 13-0407)</small>		
32 31 13	13-0529	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	288.35 -35.33 81.97 52.76 32.79 -16.39 20.73 30.15	33.26
32 31 13	13-0530	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	350.98 -47.08 109.22 70.30 43.69 -21.84 27.62 40.17	33.26



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0531 EA 5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	401.25	34.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.81	
For 1" Mesh Fabric, Add	129.49	
For 1-1/4" Mesh Fabric, Add	83.35	
For 1-3/4" Mesh Fabric, Add	51.79	
For 2-1/8" Mesh Fabric, Deduct	-25.90	
For Gate With Single Barb Wire Arm, Add	32.74	
For Gate With Double Barb Wire Arm, Add	47.63	
32 31 13 13-0532 EA 6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	465.16	42.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.09	
For 1" Mesh Fabric, Add	146.37	
For 1-1/4" Mesh Fabric, Add	94.22	
For 1-3/4" Mesh Fabric, Add	58.55	
For 2-1/8" Mesh Fabric, Deduct	-29.27	
For Gate With Single Barb Wire Arm, Add	37.01	
For Gate With Double Barb Wire Arm, Add	53.84	
32 31 13 13-0533 EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	533.39	51.22
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.18	
For 1" Mesh Fabric, Add	165.14	
For 1-1/4" Mesh Fabric, Add	106.30	
For 1-3/4" Mesh Fabric, Add	66.06	
For 2-1/8" Mesh Fabric, Deduct	-33.03	
For Gate With Single Barb Wire Arm, Add	41.76	
For Gate With Double Barb Wire Arm, Add	60.74	
32 31 13 13-0534 EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	600.81	59.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-79.27	
For 1" Mesh Fabric, Add	183.90	
For 1-1/4" Mesh Fabric, Add	118.38	
For 1-3/4" Mesh Fabric, Add	73.56	
For 2-1/8" Mesh Fabric, Deduct	-36.78	
For Gate With Single Barb Wire Arm, Add	46.50	
For Gate With Double Barb Wire Arm, Add	67.64	
32 31 13 13-0535 EA 9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	669.03	67.66
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-87.36	
For 1" Mesh Fabric, Add	202.67	
For 1-1/4" Mesh Fabric, Add	130.45	
For 1-3/4" Mesh Fabric, Add	81.07	
For 2-1/8" Mesh Fabric, Deduct	-40.53	
For Gate With Single Barb Wire Arm, Add	51.25	
For Gate With Double Barb Wire Arm, Add	74.55	
32 31 13 13-0536 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	732.95	75.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.64	
For 1" Mesh Fabric, Add	219.56	
For 1-1/4" Mesh Fabric, Add	141.33	
For 1-3/4" Mesh Fabric, Add	87.82	
For 2-1/8" Mesh Fabric, Deduct	-43.91	
For Gate With Single Barb Wire Arm, Add	55.52	
For Gate With Double Barb Wire Arm, Add	80.76	
32 31 13 13-0537 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,018.33	87.13
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.91	
For 1" Mesh Fabric, Add	329.23	
For 1-1/4" Mesh Fabric, Add	211.92	
For 1-3/4" Mesh Fabric, Add	131.69	
For 2-1/8" Mesh Fabric, Deduct	-65.85	
For Gate With Single Barb Wire Arm, Add	83.25	
For Gate With Double Barb Wire Arm, Add	121.10	
32 31 13 13-0538 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,214.39	93.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-174.91	
For 1" Mesh Fabric, Add	405.79	
For 1-1/4" Mesh Fabric, Add	261.20	
For 1-3/4" Mesh Fabric, Add	162.32	
For 2-1/8" Mesh Fabric, Deduct	-81.16	
For Gate With Single Barb Wire Arm, Add	102.61	
For Gate With Double Barb Wire Arm, Add	149.26	
32 31 13 13-0539 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,394.37	101.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-204.23	
For 1" Mesh Fabric, Add	473.80	
For 1-1/4" Mesh Fabric, Add	304.98	
For 1-3/4" Mesh Fabric, Add	189.52	
For 2-1/8" Mesh Fabric, Deduct	-94.76	
For Gate With Single Barb Wire Arm, Add	119.81	
For Gate With Double Barb Wire Arm, Add	174.27	
32 31 13 13-0540 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,577.33	110.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-233.34	
For 1" Mesh Fabric, Add	541.36	
For 1-1/4" Mesh Fabric, Add	348.46	
For 1-3/4" Mesh Fabric, Add	216.54	
For 2-1/8" Mesh Fabric, Deduct	-108.27	
For Gate With Single Barb Wire Arm, Add	136.90	
For Gate With Double Barb Wire Arm, Add	199.12	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0541	EA	18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,763.94	121.99
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-262.08	
		<i>For 1" Mesh Fabric, Add</i>	608.02	
		<i>For 1-1/4" Mesh Fabric, Add</i>	391.37	
		<i>For 1-3/4" Mesh Fabric, Add</i>	243.21	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-121.60	
		<i>For Gate With Single Barb Wire Arm, Add</i>	153.75	
		<i>For Gate With Double Barb Wire Arm, Add</i>	223.64	
32 31 13 13-0542	EA	20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,959.59	135.42
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-291.20	
		<i>For 1" Mesh Fabric, Add</i>	675.57	
		<i>For 1-1/4" Mesh Fabric, Add</i>	434.85	
		<i>For 1-3/4" Mesh Fabric, Add</i>	270.23	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-135.11	
		<i>For Gate With Single Barb Wire Arm, Add</i>	170.83	
		<i>For Gate With Double Barb Wire Arm, Add</i>	248.49	
32 31 13 13-0543	EA	22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,166.10	152.39
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-320.31	
		<i>For 1" Mesh Fabric, Add</i>	743.13	
		<i>For 1-1/4" Mesh Fabric, Add</i>	478.34	
		<i>For 1-3/4" Mesh Fabric, Add</i>	297.25	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-148.63	
		<i>For Gate With Single Barb Wire Arm, Add</i>	187.92	
		<i>For Gate With Double Barb Wire Arm, Add</i>	273.33	
32 31 13 13-0544	EA	24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,386.47	174.08
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-349.43	
		<i>For 1" Mesh Fabric, Add</i>	810.69	
		<i>For 1-1/4" Mesh Fabric, Add</i>	521.82	
		<i>For 1-3/4" Mesh Fabric, Add</i>	324.28	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-162.14	
		<i>For Gate With Single Barb Wire Arm, Add</i>	205.00	
		<i>For Gate With Double Barb Wire Arm, Add</i>	298.18	
32 31 13 13-0545	EA	26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,634.47	203.28
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-379.52	
		<i>For 1" Mesh Fabric, Add</i>	880.50	
		<i>For 1-1/4" Mesh Fabric, Add</i>	566.76	
		<i>For 1-3/4" Mesh Fabric, Add</i>	352.20	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-176.10	
		<i>For Gate With Single Barb Wire Arm, Add</i>	222.65	
		<i>For Gate With Double Barb Wire Arm, Add</i>	323.86	
32 31 13 13-0546	EA	28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,911.19	243.70
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-408.64	
		<i>For 1" Mesh Fabric, Add</i>	948.05	
		<i>For 1-1/4" Mesh Fabric, Add</i>	610.24	
		<i>For 1-3/4" Mesh Fabric, Add</i>	379.22	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-189.61	
		<i>For Gate With Single Barb Wire Arm, Add</i>	239.74	
		<i>For Gate With Double Barb Wire Arm, Add</i>	348.71	
32 31 13 13-0547	EA	30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,250.25	304.88
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-437.76	
		<i>For 1" Mesh Fabric, Add</i>	1,015.61	
		<i>For 1-1/4" Mesh Fabric, Add</i>	653.73	
		<i>For 1-3/4" Mesh Fabric, Add</i>	406.24	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-203.12	
		<i>For Gate With Single Barb Wire Arm, Add</i>	256.82	
		<i>For Gate With Double Barb Wire Arm, Add</i>	373.56	
32 31 13 13-0548		<b>Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0265)</small>		
		Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0632 for additional gate accessories, 32 31 13 13-0728 for gate replacement parts.		
32 31 13 13-0549		<b>4' High Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0548)</small>		
32 31 13 13-0550	EA	10' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	1,770.64	300.89
		<i>For 1" Mesh Fabric, Add</i>	508.44	
		<i>For 1-1/4" Mesh Fabric, Add</i>	327.27	
		<i>For 1-3/4" Mesh Fabric, Add</i>	203.37	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-101.69	
		<i>For Gate With Barb Wire Arm, Add</i>	128.57	
		<i>For Vinyl Coated, Add</i>	350.65	
32 31 13 13-0551	EA	12' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	2,129.04	363.27
		<i>For 1" Mesh Fabric, Add</i>	610.13	
		<i>For 1-1/4" Mesh Fabric, Add</i>	392.73	
		<i>For 1-3/4" Mesh Fabric, Add</i>	244.05	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-122.03	
		<i>For Gate With Barb Wire Arm, Add</i>	154.28	
		<i>For Vinyl Coated, Add</i>	420.78	
32 31 13 13-0552	EA	14' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	2,484.04	423.80
		<i>For 1" Mesh Fabric, Add</i>	711.81	
		<i>For 1-1/4" Mesh Fabric, Add</i>	458.18	
		<i>For 1-3/4" Mesh Fabric, Add</i>	284.72	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-142.36	
		<i>For Gate With Barb Wire Arm, Add</i>	180.00	
		<i>For Vinyl Coated, Add</i>	490.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0553 EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	2,844.32	487.11
For 1" Mesh Fabric, Add	813.50	
For 1-1/4" Mesh Fabric, Add	523.63	
For 1-3/4" Mesh Fabric, Add	325.40	
For 2-1/8" Mesh Fabric, Deduct	-162.70	
For Gate With Barb Wire Arm, Add	205.71	
For Vinyl Coated, Add	561.04	
32 31 13 13-0554 EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	3,199.89	548.02
For 1" Mesh Fabric, Add	915.19	
For 1-1/4" Mesh Fabric, Add	589.09	
For 1-3/4" Mesh Fabric, Add	366.08	
For 2-1/8" Mesh Fabric, Deduct	-183.04	
For Gate With Barb Wire Arm, Add	231.43	
For Vinyl Coated, Add	631.16	
32 31 13 13-0555 EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	3,544.23	603.26
For 1" Mesh Fabric, Add	1,016.88	
For 1-1/4" Mesh Fabric, Add	654.54	
For 1-3/4" Mesh Fabric, Add	406.75	
For 2-1/8" Mesh Fabric, Deduct	-203.38	
For Gate With Barb Wire Arm, Add	257.14	
For Vinyl Coated, Add	701.30	
32 31 13 13-0556 EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	4,237.49	726.45
For 1" Mesh Fabric, Add	1,211.30	
For 1-1/4" Mesh Fabric, Add	779.69	
For 1-3/4" Mesh Fabric, Add	484.52	
For 2-1/8" Mesh Fabric, Deduct	-242.26	
For Gate With Barb Wire Arm, Add	306.30	
For Vinyl Coated, Add	835.38	
32 31 13 13-0557 EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	6,248.93	1,371.24
For 1" Mesh Fabric, Add	1,525.31	
For 1-1/4" Mesh Fabric, Add	981.81	
For 1-3/4" Mesh Fabric, Add	610.13	
For 2-1/8" Mesh Fabric, Deduct	-305.06	
For Gate With Barb Wire Arm, Add	385.71	
For Vinyl Coated, Add	1,051.94	
32 31 13 13-0558 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	8,331.90	1,828.32
For 1" Mesh Fabric, Add	2,033.75	
For 1-1/4" Mesh Fabric, Add	1,309.08	
For 1-3/4" Mesh Fabric, Add	813.50	
For 2-1/8" Mesh Fabric, Deduct	-406.75	
For Gate With Barb Wire Arm, Add	514.28	
For Vinyl Coated, Add	1,402.59	
<b>32 31 13 13-0559 5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)</b>		
32 31 13 13-0560 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	1,858.14	327.50
For 1" Mesh Fabric, Add	523.38	
For 1-1/4" Mesh Fabric, Add	336.89	
For 1-3/4" Mesh Fabric, Add	209.35	
For 2-1/8" Mesh Fabric, Deduct	-104.68	
For Gate With Barb Wire Arm, Add	132.35	
For Vinyl Coated, Add	360.95	
32 31 13 13-0561 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	2,228.86	392.57
For 1" Mesh Fabric, Add	628.06	
For 1-1/4" Mesh Fabric, Add	404.27	
For 1-3/4" Mesh Fabric, Add	251.22	
For 2-1/8" Mesh Fabric, Deduct	-125.61	
For Gate With Barb Wire Arm, Add	158.82	
For Vinyl Coated, Add	433.14	
32 31 13 13-0562 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	2,600.18	457.91
For 1" Mesh Fabric, Add	732.74	
For 1-1/4" Mesh Fabric, Add	471.65	
For 1-3/4" Mesh Fabric, Add	293.09	
For 2-1/8" Mesh Fabric, Deduct	-146.55	
For Gate With Barb Wire Arm, Add	185.29	
For Vinyl Coated, Add	505.34	
32 31 13 13-0563 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	2,971.89	523.45
For 1" Mesh Fabric, Add	837.41	
For 1-1/4" Mesh Fabric, Add	539.02	
For 1-3/4" Mesh Fabric, Add	334.96	
For 2-1/8" Mesh Fabric, Deduct	-167.48	
For Gate With Barb Wire Arm, Add	211.76	
For Vinyl Coated, Add	577.52	
32 31 13 13-0564 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	3,343.16	588.70
For 1" Mesh Fabric, Add	942.08	
For 1-1/4" Mesh Fabric, Add	606.40	
For 1-3/4" Mesh Fabric, Add	376.83	
For 2-1/8" Mesh Fabric, Deduct	-188.42	
For Gate With Barb Wire Arm, Add	238.23	
For Vinyl Coated, Add	649.71	
32 31 13 13-0565 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	3,714.68	654.15
For 1" Mesh Fabric, Add	1,046.76	
For 1-1/4" Mesh Fabric, Add	673.78	
For 1-3/4" Mesh Fabric, Add	418.70	
For 2-1/8" Mesh Fabric, Deduct	-209.35	
For Gate With Barb Wire Arm, Add	264.70	
For Vinyl Coated, Add	721.91	



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0566 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	4,438.21	785.87
For 1" Mesh Fabric, Add	1,246.90	
For 1-1/4" Mesh Fabric, Add	802.60	
For 1-3/4" Mesh Fabric, Add	498.76	
For 2-1/8" Mesh Fabric, Deduct	-249.38	
For Gate With Barb Wire Arm, Add	315.31	
For Vinyl Coated, Add	859.93	
32 31 13 13-0567 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	5,572.36	981.45
For 1" Mesh Fabric, Add	1,570.14	
For 1-1/4" Mesh Fabric, Add	1,010.67	
For 1-3/4" Mesh Fabric, Add	628.06	
For 2-1/8" Mesh Fabric, Deduct	-314.03	
For Gate With Barb Wire Arm, Add	397.05	
For Vinyl Coated, Add	1,082.86	
32 31 13 13-0568 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	7,429.34	1,308.30
For 1" Mesh Fabric, Add	2,093.52	
For 1-1/4" Mesh Fabric, Add	1,347.55	
For 1-3/4" Mesh Fabric, Add	837.41	
For 2-1/8" Mesh Fabric, Deduct	-418.70	
For Gate With Barb Wire Arm, Add	529.40	
For Vinyl Coated, Add	1,443.81	
<b>32 31 13 13-0569 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)</b> .....	<b>1,995.04</b>	<b>383.95</b>
32 31 13 13-0570 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	1,995.04	383.95
For 1" Mesh Fabric, Add	533.84	
For 1-1/4" Mesh Fabric, Add	343.62	
For 1-3/4" Mesh Fabric, Add	213.54	
For 2-1/8" Mesh Fabric, Deduct	-106.77	
For Gate With Barb Wire Arm, Add	134.99	
For Vinyl Coated, Add	368.17	
32 31 13 13-0571 EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	2,391.34	459.30
For 1" Mesh Fabric, Add	640.61	
For 1-1/4" Mesh Fabric, Add	412.34	
For 1-3/4" Mesh Fabric, Add	256.24	
For 2-1/8" Mesh Fabric, Deduct	-128.12	
For Gate With Barb Wire Arm, Add	161.99	
For Vinyl Coated, Add	441.80	
32 31 13 13-0572 EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	2,789.73	535.78
For 1" Mesh Fabric, Add	747.38	
For 1-1/4" Mesh Fabric, Add	481.07	
For 1-3/4" Mesh Fabric, Add	298.95	
For 2-1/8" Mesh Fabric, Deduct	-149.48	
For Gate With Barb Wire Arm, Add	188.99	
For Vinyl Coated, Add	515.43	
32 31 13 13-0573 EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	3,188.46	612.43
For 1" Mesh Fabric, Add	854.14	
For 1-1/4" Mesh Fabric, Add	549.79	
For 1-3/4" Mesh Fabric, Add	341.66	
For 2-1/8" Mesh Fabric, Deduct	-170.83	
For Gate With Barb Wire Arm, Add	215.99	
For Vinyl Coated, Add	589.07	
32 31 13 13-0574 EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	3,586.85	688.91
For 1" Mesh Fabric, Add	960.92	
For 1-1/4" Mesh Fabric, Add	618.52	
For 1-3/4" Mesh Fabric, Add	384.37	
For 2-1/8" Mesh Fabric, Deduct	-192.18	
For Gate With Barb Wire Arm, Add	242.99	
For Vinyl Coated, Add	662.70	
32 31 13 13-0575 EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	3,990.40	767.98
For 1" Mesh Fabric, Add	1,067.68	
For 1-1/4" Mesh Fabric, Add	687.24	
For 1-3/4" Mesh Fabric, Add	427.07	
For 2-1/8" Mesh Fabric, Deduct	-213.54	
For Gate With Barb Wire Arm, Add	269.99	
For Vinyl Coated, Add	736.33	
32 31 13 13-0576 EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	4,761.09	918.70
For 1" Mesh Fabric, Add	1,271.82	
For 1-1/4" Mesh Fabric, Add	818.64	
For 1-3/4" Mesh Fabric, Add	508.73	
For 2-1/8" Mesh Fabric, Deduct	-254.36	
For Gate With Barb Wire Arm, Add	321.61	
For Vinyl Coated, Add	877.12	
32 31 13 13-0577 EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	5,978.94	1,148.67
For 1" Mesh Fabric, Add	1,601.52	
For 1-1/4" Mesh Fabric, Add	1,030.86	
For 1-3/4" Mesh Fabric, Add	640.61	
For 2-1/8" Mesh Fabric, Deduct	-320.30	
For Gate With Barb Wire Arm, Add	404.98	
For Vinyl Coated, Add	1,104.50	
32 31 13 13-0578 EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	7,970.65	1,530.86
For 1" Mesh Fabric, Add	2,135.36	
For 1-1/4" Mesh Fabric, Add	1,374.49	
For 1-3/4" Mesh Fabric, Add	854.15	
For 2-1/8" Mesh Fabric, Deduct	-427.07	
For Gate With Barb Wire Arm, Add	539.98	
For Vinyl Coated, Add	1,472.66	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 31 13 13-0579 7' High Chain Link Galvanized Steel Sliding Gate</b> (32 31 13 13-0548)					
32 31 13 13-0580	EA		10' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	2,131.82	428.25
			For 1" Mesh Fabric, Add	554.76	
			For 1-1/4" Mesh Fabric, Add	357.09	
			For 1-3/4" Mesh Fabric, Add	221.91	
			For 2-1/8" Mesh Fabric, Deduct	-110.95	
			For Gate With Barb Wire Arm, Add	140.29	
			For Vinyl Coated, Add	382.60	
32 31 13 13-0581	EA		12' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	2,557.51	513.53
			For 1" Mesh Fabric, Add	665.73	
			For 1-1/4" Mesh Fabric, Add	428.52	
			For 1-3/4" Mesh Fabric, Add	266.29	
			For 2-1/8" Mesh Fabric, Deduct	-133.15	
			For Gate With Barb Wire Arm, Add	168.35	
			For Vinyl Coated, Add	459.13	
32 31 13 13-0582	EA		14' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	2,984.59	599.55
			For 1" Mesh Fabric, Add	776.66	
			For 1-1/4" Mesh Fabric, Add	499.92	
			For 1-3/4" Mesh Fabric, Add	310.66	
			For 2-1/8" Mesh Fabric, Deduct	-155.33	
			For Gate With Barb Wire Arm, Add	196.40	
			For Vinyl Coated, Add	535.63	
32 31 13 13-0583	EA		16' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	3,410.21	684.83
			For 1" Mesh Fabric, Add	887.62	
			For 1-1/4" Mesh Fabric, Add	571.34	
			For 1-3/4" Mesh Fabric, Add	355.05	
			For 2-1/8" Mesh Fabric, Deduct	-177.52	
			For Gate With Barb Wire Arm, Add	224.46	
			For Vinyl Coated, Add	612.15	
32 31 13 13-0584	EA		18' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	3,836.62	770.58
			For 1" Mesh Fabric, Add	998.57	
			For 1-1/4" Mesh Fabric, Add	642.76	
			For 1-3/4" Mesh Fabric, Add	399.43	
			For 2-1/8" Mesh Fabric, Deduct	-199.71	
			For Gate With Barb Wire Arm, Add	252.51	
			For Vinyl Coated, Add	688.67	
32 31 13 13-0585	EA		20' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	4,262.45	855.95
			For 1" Mesh Fabric, Add	1,109.52	
			For 1-1/4" Mesh Fabric, Add	714.18	
			For 1-3/4" Mesh Fabric, Add	443.81	
			For 2-1/8" Mesh Fabric, Deduct	-221.90	
			For Gate With Barb Wire Arm, Add	280.57	
			For Vinyl Coated, Add	765.19	
32 31 13 13-0586	EA		24' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	5,092.48	1,027.06
			For 1" Mesh Fabric, Add	1,321.66	
			For 1-1/4" Mesh Fabric, Add	850.72	
			For 1-3/4" Mesh Fabric, Add	528.66	
			For 2-1/8" Mesh Fabric, Deduct	-264.33	
			For Gate With Barb Wire Arm, Add	334.21	
			For Vinyl Coated, Add	911.49	
32 31 13 13-0587	EA		30' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	6,393.67	1,283.83
			For 1" Mesh Fabric, Add	1,664.28	
			For 1-1/4" Mesh Fabric, Add	1,071.26	
			For 1-3/4" Mesh Fabric, Add	665.71	
			For 2-1/8" Mesh Fabric, Deduct	-332.86	
			For Gate With Barb Wire Arm, Add	420.85	
			For Vinyl Coated, Add	1,147.78	
32 31 13 13-0588	EA		40' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	8,524.89	1,711.80
			For 1" Mesh Fabric, Add	2,219.04	
			For 1-1/4" Mesh Fabric, Add	1,428.35	
			For 1-3/4" Mesh Fabric, Add	887.62	
			For 2-1/8" Mesh Fabric, Deduct	-443.81	
			For Gate With Barb Wire Arm, Add	561.14	
			For Vinyl Coated, Add	1,530.38	
<b>32 31 13 13-0589 8' High Chain Link Galvanized Steel Sliding Gate</b> (32 31 13 13-0548)					
32 31 13 13-0590	EA		10' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	2,240.98	463.93
			For 1" Mesh Fabric, Add	571.20	
			For 1-1/4" Mesh Fabric, Add	367.67	
			For 1-3/4" Mesh Fabric, Add	228.48	
			For 2-1/8" Mesh Fabric, Deduct	-114.24	
			For Gate With Barb Wire Arm, Add	144.44	
			For Vinyl Coated, Add	393.93	
32 31 13 13-0591	EA		12' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	2,686.51	555.43
			For 1" Mesh Fabric, Add	685.44	
			For 1-1/4" Mesh Fabric, Add	441.20	
			For 1-3/4" Mesh Fabric, Add	274.18	
			For 2-1/8" Mesh Fabric, Deduct	-137.09	
			For Gate With Barb Wire Arm, Add	173.33	
			For Vinyl Coated, Add	472.72	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0592 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	3,134.32	648.03
For 1" Mesh Fabric, Add	799.68	
For 1-1/4" Mesh Fabric, Add	514.74	
For 1-3/4" Mesh Fabric, Add	319.87	
For 2-1/8" Mesh Fabric, Deduct	-159.94	
For Gate With Barb Wire Arm, Add	202.22	
For Vinyl Coated, Add	551.50	
32 31 13 13-0593 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	3,582.30	740.63
For 1" Mesh Fabric, Add	913.92	
For 1-1/4" Mesh Fabric, Add	588.27	
For 1-3/4" Mesh Fabric, Add	365.57	
For 2-1/8" Mesh Fabric, Deduct	-182.78	
For Gate With Barb Wire Arm, Add	231.11	
For Vinyl Coated, Add	630.29	
32 31 13 13-0594 EA 18' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	4,029.26	832.87
For 1" Mesh Fabric, Add	1,028.16	
For 1-1/4" Mesh Fabric, Add	661.80	
For 1-3/4" Mesh Fabric, Add	411.26	
For 2-1/8" Mesh Fabric, Deduct	-205.63	
For Gate With Barb Wire Arm, Add	259.99	
For Vinyl Coated, Add	709.07	
32 31 13 13-0595 EA 20' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	4,477.32	925.56
For 1" Mesh Fabric, Add	1,142.40	
For 1-1/4" Mesh Fabric, Add	735.34	
For 1-3/4" Mesh Fabric, Add	456.96	
For 2-1/8" Mesh Fabric, Deduct	-228.48	
For Gate With Barb Wire Arm, Add	288.88	
For Vinyl Coated, Add	787.86	
32 31 13 13-0596 EA 24' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	5,349.89	1,110.77
For 1" Mesh Fabric, Add	1,360.82	
For 1-1/4" Mesh Fabric, Add	875.93	
For 1-3/4" Mesh Fabric, Add	544.33	
For 2-1/8" Mesh Fabric, Deduct	-272.16	
For Gate With Barb Wire Arm, Add	344.12	
For Vinyl Coated, Add	938.50	
32 31 13 13-0597 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	6,716.68	1,388.66
For 1" Mesh Fabric, Add	1,713.60	
For 1-1/4" Mesh Fabric, Add	1,103.00	
For 1-3/4" Mesh Fabric, Add	685.44	
For 2-1/8" Mesh Fabric, Deduct	-342.72	
For Gate With Barb Wire Arm, Add	433.32	
For Vinyl Coated, Add	1,181.79	
32 31 13 13-0598 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	8,952.80	1,850.19
For 1" Mesh Fabric, Add	2,284.79	
For 1-1/4" Mesh Fabric, Add	1,470.67	
For 1-3/4" Mesh Fabric, Add	913.92	
For 2-1/8" Mesh Fabric, Deduct	-456.96	
For Gate With Barb Wire Arm, Add	577.76	
For Vinyl Coated, Add	1,575.72	
<b>32 31 13 13-0599 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)</b>		
32 31 13 13-0600 EA 10' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	2,369.99	506.11
For 1" Mesh Fabric, Add	590.62	
For 1-1/4" Mesh Fabric, Add	380.17	
For 1-3/4" Mesh Fabric, Add	236.25	
For 2-1/8" Mesh Fabric, Deduct	-118.12	
For Gate With Barb Wire Arm, Add	149.35	
For Vinyl Coated, Add	407.33	
32 31 13 13-0601 EA 12' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	2,840.21	605.48
For 1" Mesh Fabric, Add	708.75	
For 1-1/4" Mesh Fabric, Add	456.21	
For 1-3/4" Mesh Fabric, Add	283.50	
For 2-1/8" Mesh Fabric, Deduct	-141.75	
For Gate With Barb Wire Arm, Add	179.22	
For Vinyl Coated, Add	488.79	
32 31 13 13-0602 EA 14' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	3,313.36	706.25
For 1" Mesh Fabric, Add	826.87	
For 1-1/4" Mesh Fabric, Add	532.24	
For 1-3/4" Mesh Fabric, Add	330.75	
For 2-1/8" Mesh Fabric, Deduct	-165.37	
For Gate With Barb Wire Arm, Add	209.09	
For Vinyl Coated, Add	570.26	
32 31 13 13-0603 EA 16' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	3,787.31	807.47
For 1" Mesh Fabric, Add	945.00	
For 1-1/4" Mesh Fabric, Add	608.27	
For 1-3/4" Mesh Fabric, Add	378.00	
For 2-1/8" Mesh Fabric, Deduct	-189.00	
For Gate With Barb Wire Arm, Add	238.97	
For Vinyl Coated, Add	651.72	
32 31 13 13-0604 EA 18' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	4,260.62	908.32
For 1" Mesh Fabric, Add	1,063.12	
For 1-1/4" Mesh Fabric, Add	684.31	
For 1-3/4" Mesh Fabric, Add	425.25	
For 2-1/8" Mesh Fabric, Deduct	-212.62	
For Gate With Barb Wire Arm, Add	268.84	
For Vinyl Coated, Add	733.19	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0605 EA 20' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	4,733.93	1,009.17
For 1" Mesh Fabric, Add	1,181.25	
For 1-1/4" Mesh Fabric, Add	760.35	
For 1-3/4" Mesh Fabric, Add	472.50	
For 2-1/8" Mesh Fabric, Deduct	-236.25	
For Gate With Barb Wire Arm, Add	298.71	
For Vinyl Coated, Add	814.66	
32 31 13 13-0606 EA 24' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	5,656.53	1,210.88
For 1" Mesh Fabric, Add	1,407.10	
For 1-1/4" Mesh Fabric, Add	905.72	
For 1-3/4" Mesh Fabric, Add	562.84	
For 2-1/8" Mesh Fabric, Deduct	-281.42	
For Gate With Barb Wire Arm, Add	355.82	
For Vinyl Coated, Add	970.41	
32 31 13 13-0607 EA 30' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	7,100.04	1,513.43
For 1" Mesh Fabric, Add	1,771.87	
For 1-1/4" Mesh Fabric, Add	1,140.52	
For 1-3/4" Mesh Fabric, Add	708.75	
For 2-1/8" Mesh Fabric, Deduct	-354.37	
For Gate With Barb Wire Arm, Add	448.06	
For Vinyl Coated, Add	1,221.98	
32 31 13 13-0608 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	9,470.04	2,019.55
For 1" Mesh Fabric, Add	2,362.50	
For 1-1/4" Mesh Fabric, Add	1,520.69	
For 1-3/4" Mesh Fabric, Add	945.00	
For 2-1/8" Mesh Fabric, Deduct	-472.50	
For Gate With Barb Wire Arm, Add	597.41	
For Vinyl Coated, Add	1,629.31	
<b>32 31 13 13-0609 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)</b>		
32 31 13 13-0610 EA 10' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	2,529.61	556.72
For 1" Mesh Fabric, Add	616.03	
For 1-1/4" Mesh Fabric, Add	396.52	
For 1-3/4" Mesh Fabric, Add	246.41	
For 2-1/8" Mesh Fabric, Deduct	-123.21	
For Gate With Barb Wire Arm, Add	155.78	
For Vinyl Coated, Add	424.85	
32 31 13 13-0611 EA 12' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	3,035.54	668.06
For 1" Mesh Fabric, Add	739.23	
For 1-1/4" Mesh Fabric, Add	475.83	
For 1-3/4" Mesh Fabric, Add	295.69	
For 2-1/8" Mesh Fabric, Deduct	-147.85	
For Gate With Barb Wire Arm, Add	186.93	
For Vinyl Coated, Add	509.82	
32 31 13 13-0612 EA 14' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	3,541.83	779.57
For 1" Mesh Fabric, Add	862.44	
For 1-1/4" Mesh Fabric, Add	555.13	
For 1-3/4" Mesh Fabric, Add	344.98	
For 2-1/8" Mesh Fabric, Deduct	-172.49	
For Gate With Barb Wire Arm, Add	218.09	
For Vinyl Coated, Add	594.79	
32 31 13 13-0613 EA 16' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	4,047.59	890.89
For 1" Mesh Fabric, Add	985.64	
For 1-1/4" Mesh Fabric, Add	634.44	
For 1-3/4" Mesh Fabric, Add	394.26	
For 2-1/8" Mesh Fabric, Deduct	-197.13	
For Gate With Barb Wire Arm, Add	249.24	
For Vinyl Coated, Add	679.76	
32 31 13 13-0614 EA 18' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	4,553.30	1,002.12
For 1" Mesh Fabric, Add	1,108.85	
For 1-1/4" Mesh Fabric, Add	713.74	
For 1-3/4" Mesh Fabric, Add	443.54	
For 2-1/8" Mesh Fabric, Deduct	-221.77	
For Gate With Barb Wire Arm, Add	280.40	
For Vinyl Coated, Add	764.72	
32 31 13 13-0615 EA 20' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	5,059.22	1,113.46
For 1" Mesh Fabric, Add	1,232.05	
For 1-1/4" Mesh Fabric, Add	793.05	
For 1-3/4" Mesh Fabric, Add	492.82	
For 2-1/8" Mesh Fabric, Deduct	-246.41	
For Gate With Barb Wire Arm, Add	311.55	
For Vinyl Coated, Add	849.69	
32 31 13 13-0616 EA 24' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	6,047.10	1,336.66
For 1" Mesh Fabric, Add	1,467.62	
For 1-1/4" Mesh Fabric, Add	944.68	
For 1-3/4" Mesh Fabric, Add	587.05	
For 2-1/8" Mesh Fabric, Deduct	-293.52	
For Gate With Barb Wire Arm, Add	371.12	
For Vinyl Coated, Add	1,012.15	
32 31 13 13-0617 EA 30' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	7,588.82	1,670.18
For 1" Mesh Fabric, Add	1,848.08	
For 1-1/4" Mesh Fabric, Add	1,189.57	
For 1-3/4" Mesh Fabric, Add	739.23	
For 2-1/8" Mesh Fabric, Deduct	-369.62	
For Gate With Barb Wire Arm, Add	467.33	
For Vinyl Coated, Add	1,274.54	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0618 EA 40' Long x 10' High Chain Link Galvanized Steel Sliding Gate .....	10,115.77	2,225.61
For 1" Mesh Fabric, Add	2,464.11	
For 1-1/4" Mesh Fabric, Add	1,586.10	
For 1-3/4" Mesh Fabric, Add	985.65	
For 2-1/8" Mesh Fabric, Deduct	-492.82	
For Gate With Barb Wire Arm, Add	623.11	
For Vinyl Coated, Add	1,699.39	
<b>32 31 13 13-0619 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller <sup>(32)</sup></b>		
<small><sup>31 13 13-0265</sup></small> Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.		
32 31 13 13-0620 EA 5' High x 10' Wide Galvanized Cantilever Sliding Gate .....	4,460.34	370.79
For 1" Mesh Fabric, Add	1,617.67	
For 1-1/4" Mesh Fabric, Add	1,041.26	
For 1-3/4" Mesh Fabric, Add	647.07	
For 2-1/8" Mesh Fabric, Deduct	-323.53	
For Gate With Single Barb Wire Arm, Add	409.07	
For Gate With Double Barb Wire Arm, Add	595.00	
For Aluminized Steel Gate And Post, Add	1,785.01	
For Powder Coated Gate And Post, Add	780.94	
For Vinyl Coated, Add	1,115.63	
32 31 13 13-0621 EA 5' High x 12' Wide Galvanized Cantilever Sliding Gate .....	4,898.87	463.48
For 1" Mesh Fabric, Add	1,727.79	
For 1-1/4" Mesh Fabric, Add	1,112.14	
For 1-3/4" Mesh Fabric, Add	691.11	
For 2-1/8" Mesh Fabric, Deduct	-345.56	
For Gate With Single Barb Wire Arm, Add	436.91	
For Gate With Double Barb Wire Arm, Add	635.51	
For Aluminized Steel Gate And Post, Add	1,906.52	
For Powder Coated Gate And Post, Add	834.10	
For Vinyl Coated, Add	1,191.58	
32 31 13 13-0622 EA 5' High x 15' Wide Galvanized Cantilever Sliding Gate .....	5,340.90	556.17
For 1" Mesh Fabric, Add	1,839.42	
For 1-1/4" Mesh Fabric, Add	1,183.99	
For 1-3/4" Mesh Fabric, Add	735.77	
For 2-1/8" Mesh Fabric, Deduct	-367.88	
For Gate With Single Barb Wire Arm, Add	465.14	
For Gate With Double Barb Wire Arm, Add	676.57	
For Aluminized Steel Gate And Post, Add	2,029.70	
For Powder Coated Gate And Post, Add	888.00	
For Vinyl Coated, Add	1,268.57	
32 31 13 13-0623 EA 5' High x 20' Wide Galvanized Cantilever Sliding Gate .....	6,275.48	741.56
For 1" Mesh Fabric, Add	2,084.68	
For 1-1/4" Mesh Fabric, Add	1,341.86	
For 1-3/4" Mesh Fabric, Add	833.87	
For 2-1/8" Mesh Fabric, Deduct	-416.94	
For Gate With Single Barb Wire Arm, Add	527.16	
For Gate With Double Barb Wire Arm, Add	766.78	
For Aluminized Steel Gate And Post, Add	2,300.33	
For Powder Coated Gate And Post, Add	1,006.40	
For Vinyl Coated, Add	1,437.71	
32 31 13 13-0624 EA 6' High x 15' Wide Galvanized Cantilever Sliding Gate .....	5,838.03	741.56
For 1" Mesh Fabric, Add	1,894.39	
For 1-1/4" Mesh Fabric, Add	1,219.37	
For 1-3/4" Mesh Fabric, Add	757.75	
For 2-1/8" Mesh Fabric, Deduct	-378.88	
For Gate With Single Barb Wire Arm, Add	479.04	
For Gate With Double Barb Wire Arm, Add	696.79	
For Aluminized Steel Gate And Post, Add	2,090.36	
For Powder Coated Gate And Post, Add	914.53	
For Vinyl Coated, Add	1,306.47	
32 31 13 13-0625 EA 6' High x 20' Wide Galvanized Cantilever Sliding Gate .....	6,851.10	973.29
For 1" Mesh Fabric, Add	2,133.46	
For 1-1/4" Mesh Fabric, Add	1,373.26	
For 1-3/4" Mesh Fabric, Add	853.38	
For 2-1/8" Mesh Fabric, Deduct	-426.69	
For Gate With Single Barb Wire Arm, Add	539.50	
For Gate With Double Barb Wire Arm, Add	784.72	
For Aluminized Steel Gate And Post, Add	2,354.16	
For Powder Coated Gate And Post, Add	1,029.95	
For Vinyl Coated, Add	1,471.35	
32 31 13 13-0626 EA 6' High x 25' Wide Galvanized Cantilever Sliding Gate .....	9,075.99	1,205.04
For 1" Mesh Fabric, Add	2,899.67	
For 1-1/4" Mesh Fabric, Add	1,866.45	
For 1-3/4" Mesh Fabric, Add	1,159.87	
For 2-1/8" Mesh Fabric, Deduct	-579.93	
For Gate With Single Barb Wire Arm, Add	733.25	
For Gate With Double Barb Wire Arm, Add	1,066.55	
For Aluminized Steel Gate And Post, Add	3,199.64	
For Powder Coated Gate And Post, Add	1,399.84	
For Vinyl Coated, Add	1,999.77	





	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0627 EA 6' High x 30' Wide Galvanized Cantilever Sliding Gate .....	10,230.21	1,436.77
For 1" Mesh Fabric, Add	3,200.15	
For 1-1/4" Mesh Fabric, Add	2,059.86	
For 1-3/4" Mesh Fabric, Add	1,280.06	
For 2-1/8" Mesh Fabric, Deduct	-640.03	
For Gate With Single Barb Wire Arm, Add	809.23	
For Gate With Double Barb Wire Arm, Add	1,177.07	
For Aluminized Steel Gate And Post, Add	3,531.20	
For Powder Coated Gate And Post, Add	1,544.90	
For Vinyl Coated, Add	2,207.00	
32 31 13 13-0628 EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate .....	6,836.39	926.95
For 1" Mesh Fabric, Add	2,167.38	
For 1-1/4" Mesh Fabric, Add	1,395.09	
For 1-3/4" Mesh Fabric, Add	866.95	
For 2-1/8" Mesh Fabric, Deduct	-433.48	
For Gate With Single Barb Wire Arm, Add	548.07	
For Gate With Double Barb Wire Arm, Add	797.20	
For Aluminized Steel Gate And Post, Add	2,391.59	
For Powder Coated Gate And Post, Add	1,046.32	
For Vinyl Coated, Add	1,494.74	
32 31 13 13-0629 EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate .....	8,113.11	1,251.39
For 1" Mesh Fabric, Add	2,440.50	
For 1-1/4" Mesh Fabric, Add	1,570.90	
For 1-3/4" Mesh Fabric, Add	976.20	
For 2-1/8" Mesh Fabric, Deduct	-488.10	
For Gate With Single Barb Wire Arm, Add	617.14	
For Gate With Double Barb Wire Arm, Add	897.65	
For Aluminized Steel Gate And Post, Add	2,692.96	
For Powder Coated Gate And Post, Add	1,178.17	
For Vinyl Coated, Add	1,683.10	
32 31 13 13-0630 EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate .....	10,776.85	1,575.81
For 1" Mesh Fabric, Add	3,316.97	
For 1-1/4" Mesh Fabric, Add	2,135.06	
For 1-3/4" Mesh Fabric, Add	1,326.79	
For 2-1/8" Mesh Fabric, Deduct	-663.39	
For Gate With Single Barb Wire Arm, Add	838.77	
For Gate With Double Barb Wire Arm, Add	1,220.03	
For Aluminized Steel Gate And Post, Add	3,660.10	
For Powder Coated Gate And Post, Add	1,601.29	
For Vinyl Coated, Add	2,287.56	
32 31 13 13-0631 EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate .....	12,122.21	1,853.91
For 1" Mesh Fabric, Add	3,660.27	
For 1-1/4" Mesh Fabric, Add	2,356.03	
For 1-3/4" Mesh Fabric, Add	1,464.11	
For 2-1/8" Mesh Fabric, Deduct	-732.05	
For Gate With Single Barb Wire Arm, Add	925.59	
For Gate With Double Barb Wire Arm, Add	1,346.31	
For Aluminized Steel Gate And Post, Add	4,038.92	
For Powder Coated Gate And Post, Add	1,767.03	
For Vinyl Coated, Add	2,524.32	
<b>32 31 13 13-0632 Gate Accessories</b> <small>(32 31 13 13-0265)</small>		
32 31 13 13-0633 EA Gate Center Stop, Cast Steel, Ground .....	29.58	
32 31 13 13-0634 EA Gate Latch, Malleable Galvanized Steel .....	34.48	
32 31 13 13-0635 EA Gate Keeper, Full Length, Galvanized Steel .....	151.98	
32 31 13 13-0636 EA Gate Keeper Hold-Open For Cantilever Gate .....	73.59	15.38
32 31 13 13-0637 EA Heavy Duty Gate Latch, Malleable Galvanized Steel.....	42.14	
32 31 13 13-0638 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate .....	782.66	
32 31 13 13-0639 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate.....	839.35	
32 31 13 13-0640 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate.....	896.03	
32 31 13 13-0641 LF Aluminum V-Groove Gate Track .....	43.70	8.93
32 31 13 13-0642 LF Galvanized Steel V-Groove Gate Track .....	36.85	8.93
<b>32 31 13 13-0643 Pipe Gate</b> <small>(32 31 13 13-0265)</small>		
32 31 13 13-0644 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	2,409.96	
32 31 13 13-0645 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,006.40	
32 31 13 13-0646 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,576.93	
<b>32 31 13 13-0647 Vertical-Pivot Lift Gate</b> <small>(32 31 13 13-0265)</small>		
Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0648 EA 5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate .....	17,155.41	695.21
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0649 EA 5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate .....	17,433.49	834.25
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0650 EA 5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	17,711.58 239.00 245.00 287.50	973.29
32 31 13 13-0651 EA 5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	18,187.34 239.00 245.00 317.50	1,112.35
32 31 13 13-0652 EA 5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	18,653.23 239.00 245.00 317.50	1,251.39
32 31 13 13-0653 EA 6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add .....	17,958.02 239.00 245.00	903.78
32 31 13 13-0654 EA 6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add .....	18,236.10 239.00 245.00	1,042.82
32 31 13 13-0655 EA 6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	18,514.18 239.00 245.00 287.50	1,181.86
32 31 13 13-0656 EA 6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	18,900.99 239.00 245.00 317.50	1,320.90
32 31 13 13-0657 EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate ..... For Curb Notch, Add ..... For Prewired Loop Kit, Add ..... For Wind Bracing, Add .....	19,455.82 239.00 245.00 317.50	1,459.95
<b>32 31 13 13-0658 Reinforced Gate</b> <small>(32 31 13 13-0658)</small> Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.		
32 31 13 13-0659 LF Reinforced Single Gate, 4' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	319.84 180.25 240.34 375.53	9.71
32 31 13 13-0660 LF Reinforced Single Gate, 5' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	343.25 193.33 257.77 402.76	10.52
32 31 13 13-0661 LF Reinforced Single Gate, 6' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	366.69 205.94 274.58 429.04	11.73
32 31 13 13-0662 LF Reinforced Single Gate, 7' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	388.61 218.11 290.82 454.40	12.54
32 31 13 13-0663 LF Reinforced Single Gate, 8' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	411.76 230.06 306.75 479.30	14.16
32 31 13 13-0664 LF Reinforced Double Gate, 4' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	220.65 120.74 160.98 251.54	9.71
32 31 13 13-0665 LF Reinforced Double Gate, 5' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	247.44 135.84 181.12 283.00	10.52
32 31 13 13-0666 LF Reinforced Double Gate, 6' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	274.13 150.40 200.54 313.34	11.73
32 31 13 13-0667 LF Reinforced Double Gate, 7' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	350.25 195.10 260.13 406.45	12.54
32 31 13 13-0668 LF Reinforced Double Gate, 8' High, Galvanized ..... For Vinyl Coated, Add ..... For Powder Coated, Add ..... For Aluminum Coated, Add .....	426.18 238.72 318.29 497.33	14.16
<b>32 31 13 13-0669 Accessories</b> <small>(32 31 13 13)</small>		
<b>32 31 13 13-0670 Barbed And Concertina Wire</b> <small>(32 31 13 13-0669)</small>		
<b>32 31 13 13-0671 Single Strand Barbed Wire</b> <small>(32 31 13 13-0670)</small>		
32 31 13 13-0672 LF Galvanized Barbed Wire, Per Strand ..... Note: Includes clips. 4 points 12-1/2 Gauge, Class I. For >500 To 2,000, Deduct ..... For >2,000, Deduct .....	0.86 -0.08 -0.13	0.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0673 LF Vinyl Coated Barbed Wire (Fused), Per Strand .....	0.95	0.41
Note: Includes clips.		
For >500 To 2,000, Deduct	-0.09	
For >2,000, Deduct	-0.13	
32 31 13 13-0674 EA Barbed Wire Extension Arms 3 Strands (Single Arm).....	8.92	6.47
32 31 13 13-0675 EA Barbed Wire Extension Arms 6 Strands (Double Arm) .....	13.78	7.77
32 31 13 13-0676 EA Barbed Wire Eye Tops (For Single Strand).....	9.52	6.47
<b>32 31 13 13-0677 Galvanized Steel Concertina (Razor) Wire, Single Coil</b> <small>(32 31 13 13-0670)</small>		
32 31 13 13-0678 LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	2.39	0.57
For >500 To 1,500, Deduct	-0.22	
For >1,500 To 5,000, Deduct	-0.44	
For >5,000, Deduct	-0.64	
For Ground Installation, Deduct	-0.41	
For Double Coil (Helix), Add	1.58	
32 31 13 13-0679 LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	3.59	0.57
For >500 To 1,500, Deduct	-0.33	
For >1,500 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-0.96	
For Ground Installation, Deduct	-0.61	
For Double Coil (Helix), Add	2.38	
32 31 13 13-0680 LF 18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link		
Fence, Per LF Of Fence .....	4.78	0.57
For >500 To 1,500, Deduct	-0.44	
For >1,500 To 5,000, Deduct	-0.88	
For >5,000, Deduct	-1.28	
For Ground Installation, Deduct	-0.81	
For Double Coil (Helix), Add	3.16	
32 31 13 13-0681 LF 24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	3.44	0.57
For >500 To 1,500, Deduct	-0.30	
For >1,500 To 5,000, Deduct	-0.61	
For >5,000, Deduct	-0.87	
For Ground Installation, Deduct	-0.45	
For Double Coil (Helix), Add	2.54	
32 31 13 13-0682 LF 24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	5.18	0.57
For >500 To 1,500, Deduct	-0.46	
For >1,500 To 5,000, Deduct	-0.91	
For >5,000, Deduct	-1.31	
For Ground Installation, Deduct	-0.68	
For Double Coil (Helix), Add	3.83	
32 31 13 13-0683 LF 24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link		
Fence, Per LF Of Fence .....	6.85	0.57
For >500 To 1,500, Deduct	-0.60	
For >1,500 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-1.73	
For Ground Installation, Deduct	-0.89	
For Double Coil (Helix), Add	5.07	
32 31 13 13-0684 LF 30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	8.45	0.57
For >500 To 1,500, Deduct	-0.68	
For >1,500 To 5,000, Deduct	-1.37	
For >5,000, Deduct	-1.89	
For Ground Installation, Deduct	-0.51	
For Double Coil (Helix), Add	7.44	
32 31 13 13-0685 LF 30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain		
Link Fence, Per LF Of Fence.....	12.76	0.57
For >500 To 1,500, Deduct	-1.03	
For >1,500 To 5,000, Deduct	-2.07	
For >5,000, Deduct	-2.86	
For Ground Installation, Deduct	-0.76	
For Double Coil (Helix), Add	11.25	
32 31 13 13-0686 LF 30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link		
Fence, Per LF Of Fence .....	16.89	0.57
For >500 To 1,500, Deduct	-1.37	
For >1,500 To 5,000, Deduct	-2.74	
For >5,000, Deduct	-3.78	
For Ground Installation, Deduct	-1.01	
For Double Coil (Helix), Add	14.87	
<b>32 31 13 13-0687 Stainless Steel Concertina (Razor) Wire, Single Coil</b> <small>(32 31 13 13-0670)</small>		
32 31 13 13-0688 LF 18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence .....	3.49	0.57
For >500 To 1,500, Deduct	-0.30	
For >1,500 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-0.86	
For Ground Installation, Deduct	-0.41	
For Double Coil (Helix), Add	2.68	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0689 LF 18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.27	0.57
For >500 To 1,500, Deduct	-0.46	
For >1,500 To 5,000, Deduct	-0.91	
For >5,000, Deduct	-1.30	
For Ground Installation, Deduct	-0.61	
For Double Coil (Helix), Add	4.06	
32 31 13 13-0690 LF 18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.98	0.57
For >500 To 1,500, Deduct	-0.60	
For >1,500 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-1.72	
For Ground Installation, Deduct	-0.81	
For Double Coil (Helix), Add	5.36	
32 31 13 13-0691 LF 24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	4.37	0.57
For >500 To 1,500, Deduct	-0.37	
For >1,500 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-1.05	
For Ground Installation, Deduct	-0.45	
For Double Coil (Helix), Add	3.47	
32 31 13 13-0692 LF 24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.60	0.57
For >500 To 1,500, Deduct	-0.56	
For >1,500 To 5,000, Deduct	-1.13	
For >5,000, Deduct	-1.59	
For Ground Installation, Deduct	-0.68	
For Double Coil (Helix), Add	5.25	
32 31 13 13-0693 LF 24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.72	0.57
For >500 To 1,500, Deduct	-0.74	
For >1,500 To 5,000, Deduct	-1.49	
For >5,000, Deduct	-2.10	
For Ground Installation, Deduct	-0.89	
For Double Coil (Helix), Add	6.94	
32 31 13 13-0694 LF 30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	11.99	0.57
For >500 To 1,500, Deduct	-0.95	
For >1,500 To 5,000, Deduct	-1.90	
For >5,000, Deduct	-2.60	
For Ground Installation, Deduct	-0.51	
For Double Coil (Helix), Add	10.98	
32 31 13 13-0695 LF 30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	18.13	0.57
For >500 To 1,500, Deduct	-1.44	
For >1,500 To 5,000, Deduct	-2.87	
For >5,000, Deduct	-3.93	
For Ground Installation, Deduct	-0.76	
For Double Coil (Helix), Add	16.62	
32 31 13 13-0696 LF 30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	23.97	0.57
For >500 To 1,500, Deduct	-1.90	
For >1,500 To 5,000, Deduct	-3.80	
For >5,000, Deduct	-5.20	
For Ground Installation, Deduct	-1.01	
For Double Coil (Helix), Add	21.95	
<b>32 31 13 13-0697 Grounding For Gates</b> (32 31 13 13-0669)		
Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0698 OPN Grounding For Gates (Per Opening).....	396.46	
<b>32 31 13 13-0699 Coiled Spring Reinforcing Wire</b> (32 31 13 13-0669)		
<b>32 31 13 13-0700 Galvanized Steel</b> (32 31 13 13-0699)		
32 31 13 13-0701 LF 7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring.....	0.94	0.41
<b>32 31 13 13-0702 Vinyl Coated Steel</b> (32 31 13 13-0699)		
32 31 13 13-0703 LF 9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	0.94	0.41
<b>32 31 13 13-0704 Bending Of Fabric Around Pipe Railings</b> (32 31 13 13-0669)		
Note: Only where specified.		
32 31 13 13-0705 LF Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.31	
32 31 13 13-0706 LF Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.15	
<b>32 31 13 13-0707 Mounting Plate With Anchors Or Bolts</b> (32 31 13 13-0669)		
Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0708 EA Mounting Plate For 1-5/8" Diameter Post.....	31.12	
32 31 13 13-0709 EA Mounting Plate For 2" Diameter Post.....	31.57	
32 31 13 13-0710 EA Mounting Plate For 2-1/2" Diameter Post.....	32.55	



			<b>Exterior Improvements</b>	<b>32</b>
			Site Improvements	32 30
			Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0711 EA Mounting Plate For 3" Diameter Post.....	38.78	
32 31 13 13-0712 EA Mounting Plate For 4" Diameter Post.....	44.30	
32 31 13 13-0713 EA Mounting Plate For 6-5/8" Diameter Post.....	50.96	
32 31 13 13-0714 EA Mounting Plate For 8-5/8" Diameter Post.....	59.71	
<b>32 31 13 13-0715 Tension Bar</b> <small>(32 31 13 13-0669)</small>		
32 31 13 13-0716 EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	11.55	
32 31 13 13-0717 EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	12.25	
32 31 13 13-0718 EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	14.65	
32 31 13 13-0719 EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	16.80	
32 31 13 13-0720 EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	19.57	
32 31 13 13-0721 EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	22.45	
32 31 13 13-0722 EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	25.31	
32 31 13 13-0723 EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	29.99	
32 31 13 13-0724 EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	35.81	
<b>32 31 13 13-0725 Truss Rods</b> <small>(32 31 13 13-0669)</small>		
32 31 13 13-0726 LF 3/8" Diameter Truss Rods .....	1.55	0.46
<b>32 31 13 13-0727 Fence And Gate Repair And Replacement</b> <small>(32 31 13 13)</small>		
<b>32 31 13 13-0728 Fence And Gate Parts Replacement</b> <small>(32 31 13 13-0727)</small>		
32 31 13 13-0729 EA Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement .....	90.31	
32 31 13 13-0730 EA Sliding Gate Roller Assembly Replacement.....	90.59	
32 31 13 13-0731 EA Rod And Lock Gate Keeper Replacement .....	88.68	
32 31 13 13-0732 EA Galvanized Gate Holdback Replacement .....	21.43	
32 31 13 13-0733 LF 3/8" Cross Bracing Rod Replacement.....	1.18	
32 31 13 13-0734 LF 1-5/8" Diagonal Pipe Bracing Replacement.....	1.80	
32 31 13 13-0735 EA 2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement .....	18.09	
32 31 13 13-0736 EA 2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement .....	20.92	
32 31 13 13-0737 EA 3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement .....	23.73	
32 31 13 13-0738 EA 6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement .....	34.69	
32 31 13 13-0739 EA 8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement .....	71.38	
32 31 13 13-0740 EA 2-1/2" x 2" Off Set Gate Hinge Replacement .....	19.29	
32 31 13 13-0741 EA 3" x 2" Off Set Gate Hinge Replacement .....	20.16	
32 31 13 13-0742 EA 4" x 2" Off Set Gate Hinge Replacement .....	21.54	
32 31 13 13-0743 EA 6-5/8" x 2" Off Set Gate Hinge Replacement .....	33.61	
32 31 13 13-0744 EA 8-5/8" x 2" Off Set Gate Hinge Replacement .....	51.36	
32 31 13 13-0745 EA 1-5/8" Aluminum Die-Cast Post Cap Replacement.....	4.59	
32 31 13 13-0746 EA 2" Aluminum Die-Cast Post Cap Replacement.....	5.03	
32 31 13 13-0747 EA 2-1/2" Aluminum Die-Cast Post Cap Replacement.....	5.81	
32 31 13 13-0748 EA 3" Aluminum Die-Cast Post Cap Replacement .....	6.72	
32 31 13 13-0749 EA 2" Galvanized Post Cap Replacement .....	5.11	
32 31 13 13-0750 EA 2-1/2" Galvanized Post Cap Replacement.....	5.55	
32 31 13 13-0751 EA 3" Galvanized Post Cap Replacement.....	6.32	
32 31 13 13-0752 EA 4" Galvanized Post Cap Replacement .....	8.98	
32 31 13 13-0753 EA 6-5/8" Galvanized Post Cap Replacement .....	15.78	
32 31 13 13-0754 EA 8-5/8" Galvanized Post Cap Replacement.....	25.38	
32 31 13 13-0755 EA 1-5/8" Boulevard Clamp Replacement .....	8.68	
32 31 13 13-0756 EA 2" Boulevard Clamp Replacement .....	10.54	
32 31 13 13-0757 EA 2-1/2" Boulevard Clamp Replacement.....	12.38	
32 31 13 13-0758 EA 3" Boulevard Clamp Replacement .....	15.03	
32 31 13 13-0759 EA 1-5/8" Gate Brace Or End Rail Clamp Replacement.....	8.54	
32 31 13 13-0760 EA 2" Gate Brace Or End Rail Clamp Replacement.....	10.35	
32 31 13 13-0761 EA 2-1/2" Gate Brace Or End Rail Clamp Replacement.....	12.19	
32 31 13 13-0762 EA 3" Gate Brace Or End Rail Clamp Replacement.....	14.83	
32 31 13 13-0763 EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement .....	8.70	
32 31 13 13-0764 EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement .....	8.76	
32 31 13 13-0765 EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement .....	8.92	
32 31 13 13-0766 EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.85	
32 31 13 13-0767 EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.97	
32 31 13 13-0768 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.07	
32 31 13 13-0769 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement .....	9.36	
32 31 13 13-0770 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.50	
<b>32 31 13 13-0771 Remove And Reinstall Chain Link Fences</b> <small>(32 31 13 13)</small>		
Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.		
32 31 13 13-0772 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	16.18	
32 31 13 13-0773 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	24.28	
<b>32 31 13 33 Chain Link Backstops</b> <small>(32 31 13)</small>		
<b>32 31 13 33-0001 Regulation Baseball Backstop</b> <small>(32 31 13 33)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	8,909.40	1,663.28



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized .....	12,785.43	2,217.71
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized .....	16,207.03	2,587.33
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated .....	12,260.40	1,663.28
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated .....	17,799.60	2,217.71
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated .....	22,824.00	2,587.33
<b>32 31 13 33-0008 Regulation Softball Backstop (32 31 13 33)</b> See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
<b>32 31 13 33-0009 14' High Softball Backstop (32 31 13 33-0009)</b> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0010 EA 14' Softball Backstop, Galvanized Regulation .....	7,588.08	1,612.06
32 31 13 33-0011 EA 14' Softball Backstop, Vinyl Coated Regulation .....	9,991.48	1,612.06
<b>32 31 13 33-0012 18' High Softball Backstop (32 31 13 33-0009)</b> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0013 EA 18' Softball Backstop, Galvanized Regulation .....	8,828.16	1,792.17
32 31 13 33-0014 EA 18' Softball Backstop Vinyl Coated Regulation .....	11,735.49	1,792.17
<b>32 31 13 33-0015 20' High Softball Backstop (32 31 13 33-0009)</b> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0016 EA 20' Softball Backstop, Galvanized Regulation .....	9,949.15	1,889.59
32 31 13 33-0017 EA 20' Softball Backstop, Vinyl Coated Regulation .....	13,399.22	1,889.59
<b>32 31 13 33-0018 22' High Softball Backstop (32 31 13 33-0009)</b> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019 EA 22' Softball Backstop, Galvanized Regulation .....	11,407.30	1,946.60
32 31 13 33-0020 EA 22' Softball Backstop, Vinyl Coated Regulation .....	15,555.10	1,946.60
<b>32 31 13 33-0021 24' High Softball Backstop (32 31 13 33-0009)</b> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022 EA 24' Softball Backstop, Galvanized Regulation .....	13,510.30	2,224.68
32 31 13 33-0023 EA 24' Softball Backstop, Vinyl Coated Regulation .....	18,665.97	2,224.68
<b>32 31 16 Welded Wire Fences And Gates (32 31)</b>		
<b>32 31 16 00-0001 Welded Wire Fence (32 31 16)</b>		
<b>32 31 16 00-0002 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001)</b> Note: Posts 5' on center.		
32 31 16 00-0003 LF 3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5' .....	7.90	1.48
32 31 16 00-0004 LF 5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5' .....	8.39	1.48
<b>32 31 16 00-0005 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001)</b> Note: Posts 5' on center.		
32 31 16 00-0006 LF 3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5' .....	7.80	1.48
32 31 16 00-0007 LF 5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5' .....	8.24	1.48
<b>32 31 19 Decorative Metal Fences And Gates (32 31)</b> See CSI section 32 31 13 13-0001 for drilling and grouting.		
<b>32 31 19 00-0001 Wrought Iron Fence (32 31 19)</b> Note: Factory primed.		
<b>32 31 19 00-0002 Wrought Iron Fence, Verticals At &gt;2-1/2" To 3" On Center (32 31 19 00-0001)</b> Note: Factory primed.		
32 31 19 00-0003 LF 3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center .....	37.80	8.90
For Verticals Up To 2" On Center, Add	4.00	
For Verticals >2" To 2-1/2" On Center, Add	2.00	
For Verticals >3" To 4" On Center, Deduct	-2.00	
For Verticals >4" To 6" On Center, Deduct	-4.00	
32 31 19 00-0004 LF 4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center .....	48.36	11.33
For Verticals Up To 2" On Center, Add	5.30	
For Verticals >2" To 2-1/2" On Center, Add	2.65	
For Verticals >3" To 4" On Center, Deduct	-2.65	
For Verticals >4" To 6" On Center, Deduct	-5.30	
32 31 19 00-0005 LF 5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center .....	57.21	11.82
For Verticals Up To 2" On Center, Add	6.68	
For Verticals >2" To 2-1/2" On Center, Add	3.34	
For Verticals >3" To 4" On Center, Deduct	-3.34	
For Verticals >4" To 6" On Center, Deduct	-6.68	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0006 LF 6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center ..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i>	69.23 8.14 4.07 -4.07 -8.14	14.25
32 31 19 00-0007 LF 7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center ..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i>	80.71 10.11 5.06 -5.06 -10.11	15.07
32 31 19 00-0008 LF 8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center ..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i>	92.17 12.09 6.05 -6.05 -12.09	15.86
32 31 19 00-0009 LF 10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center ..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i>	111.74 15.23 7.61 -7.61 -15.23	17.81
32 31 19 00-0010 LF 12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center ..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i>	131.88 18.28 9.14 -9.14 -18.28	20.23
<b>32 31 19 00-0011 Wrought Iron Gates</b> <small>(32 31 19 00-0001)</small> Note: Factory primed.		
<b>32 31 19 00-0012 Single Wrought Iron Gates</b> <small>(32 31 19 00-0011)</small> Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim .....	46.44	10.84
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim .....	60.94	13.43
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim .....	74.29	16.18
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim .....	90.22	19.42
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim .....	119.93	21.53
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim .....	144.61	23.79
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim .....	168.85	27.02
<b>32 31 19 00-0020 Double Wrought Iron Gates</b> <small>(32 31 19 00-0011)</small> Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim .....	56.68	9.71
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim .....	74.31	12.14
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim .....	90.22	14.57
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim .....	109.25	17.48
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim .....	145.90	19.42
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim .....	176.24	21.37
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim .....	206.15	24.28
<b>32 31 19 00-0028 Repair Or Replace Wrought Iron Fence</b> <small>(32 31 19 00-0001)</small>		
32 31 19 00-0029 LF Removal And Replacement Of Wrought Iron Picket .....	15.57	
32 31 19 00-0030 LF Removal And Replacement Of Wrought Iron Post.....	23.04	
32 31 19 00-0031 EA Straighten Wrought Iron Post.....	64.74	
<b>32 31 19 00-0032 Steel Tube Fence, Powder Coated</b> <small>(32 31 19)</small> Note: Pickets are 3/4" square x 16 gauge.		
<b>32 31 19 00-0033 Steel Tube Fence, 2 Rail</b> <small>(32 31 19 00-0032)</small>		
32 31 19 00-0034 LF 3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 3" Square Posts, Add</i>	56.93 7.90 3.95 -3.95 -7.90 11.50 9.23 2.96 9.87 3.95	8.90
32 31 19 00-0035 LF 3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals &gt;2" To 2-1/2" On Center, Add</i> <i>For Verticals &gt;3" To 4" On Center, Deduct</i> <i>For Verticals &gt;4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 3" Square Posts, Add</i>	60.94 8.38 4.19 -4.19 -8.38 12.28 9.71 3.14 10.48 4.19	9.51

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0036	LF	4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	64.49	10.52
		For Verticals Up To 2" On Center, Add	8.77	
		For Verticals >2" To 2-1/2" On Center, Add	4.39	
		For Verticals >3" To 4" On Center, Deduct	-4.39	
		For Verticals >4" To 6" On Center, Deduct	-8.77	
		For Solid Pickets, Add	12.96	
		For Aluminum With Satin Finish, Add	10.07	
		For Third Rail, Add	3.29	
		For 1" Square x 14 Gauge Pickets, Add	10.97	
		For 3" Square Posts, Add	4.39	
32 31 19 00-0037	LF	5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	68.75	11.82
		For Verticals Up To 2" On Center, Add	8.99	
		For Verticals >2" To 2-1/2" On Center, Add	4.50	
		For Verticals >3" To 4" On Center, Deduct	-4.50	
		For Verticals >4" To 6" On Center, Deduct	-8.99	
		For Solid Pickets, Add	13.68	
		For Aluminum With Satin Finish, Add	9.92	
		For Third Rail, Add	3.37	
		For 1" Square x 14 Gauge Pickets, Add	11.24	
		For 3" Square Posts, Add	4.50	
32 31 19 00-0038	LF	6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	79.70	13.36
		For Verticals Up To 2" On Center, Add	10.60	
		For Verticals >2" To 2-1/2" On Center, Add	5.30	
		For Verticals >3" To 4" On Center, Deduct	-5.30	
		For Verticals >4" To 6" On Center, Deduct	-10.60	
		For Solid Pickets, Add	15.93	
		For Aluminum With Satin Finish, Add	11.90	
		For Third Rail, Add	3.98	
		For 1" Square x 14 Gauge Pickets, Add	13.25	
		For 3" Square Posts, Add	5.30	
32 31 19 00-0039	LF	7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	91.22	14.57
		For Verticals Up To 2" On Center, Add	12.42	
		For Verticals >2" To 2-1/2" On Center, Add	6.21	
		For Verticals >3" To 4" On Center, Deduct	-6.21	
		For Verticals >4" To 6" On Center, Deduct	-12.42	
		For Solid Pickets, Add	18.34	
		For Aluminum With Satin Finish, Add	14.26	
		For Third Rail, Add	4.66	
		For 1" Square x 14 Gauge Pickets, Add	15.52	
		For 4" Square Posts, Add	21.73	
32 31 19 00-0040	LF	8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	102.90	15.86
		For Verticals Up To 2" On Center, Add	14.24	
		For Verticals >2" To 2-1/2" On Center, Add	7.12	
		For Verticals >3" To 4" On Center, Deduct	-7.12	
		For Verticals >4" To 6" On Center, Deduct	-14.24	
		For Solid Pickets, Add	20.77	
		For Aluminum With Satin Finish, Add	16.60	
		For Third Rail, Add	5.34	
		For 1" Square x 14 Gauge Pickets, Add	17.80	
		For 4" Square Posts, Add	24.91	
32 31 19 00-0041	LF	9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	119.58	16.99
		For Verticals Up To 2" On Center, Add	17.12	
		For Verticals >2" To 2-1/2" On Center, Add	8.56	
		For Verticals >3" To 4" On Center, Deduct	-8.56	
		For Verticals >4" To 6" On Center, Deduct	-17.12	
		For Solid Pickets, Add	24.36	
		For Aluminum With Satin Finish, Add	20.58	
		For Third Rail, Add	6.42	
		For 1" Square x 14 Gauge Pickets, Add	21.40	
		For 4" Square Posts, Add	29.96	
32 31 19 00-0042	LF	10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	136.42	18.21
		For Verticals Up To 2" On Center, Add	20.00	
		For Verticals >2" To 2-1/2" On Center, Add	10.00	
		For Verticals >3" To 4" On Center, Deduct	-10.00	
		For Verticals >4" To 6" On Center, Deduct	-20.00	
		For Solid Pickets, Add	27.96	
		For Aluminum With Satin Finish, Add	24.54	
		For Third Rail, Add	7.50	
		For 1" Square x 14 Gauge Pickets, Add	25.00	
		For 6" Square Posts, Add	35.00	
32 31 19 00-0043	LF	12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	160.64	20.23
		For Verticals Up To 2" On Center, Add	24.04	
		For Verticals >2" To 2-1/2" On Center, Add	12.02	
		For Verticals >3" To 4" On Center, Deduct	-12.02	
		For Verticals >4" To 6" On Center, Deduct	-24.04	
		For Solid Pickets, Add	33.11	
		For Aluminum With Satin Finish, Add	29.99	
		For Third Rail, Add	9.01	
		For 1" Square x 14 Gauge Pickets, Add	30.05	
		For 6" Square Posts, Add	42.06	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0044 LF 14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	172.08	21.85
For Verticals Up To 2" On Center, Add	25.68	
For Verticals >2" To 2-1/2" On Center, Add	12.84	
For Verticals >3" To 4" On Center, Deduct	-12.84	
For Verticals >4" To 6" On Center, Deduct	-25.68	
For Solid Pickets, Add	35.44	
For Aluminum With Satin Finish, Add	31.96	
For Third Rail, Add	9.63	
For 1" Square x 14 Gauge Pickets, Add	32.10	
For 6" Square Posts, Add	44.93	
<b>32 31 19 00-0045 Steel Tube Swing Gates (32 31 19 00-0032)</b>		
<b>32 31 19 00-0046 3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)</b>		
32 31 19 00-0047 EA 3' Wide x 3' High Steel Tube Single Swing Gate.....	517.98	17.24
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	112.66	
For Aluminum With Satin Finish, Add	132.09	
For Third Rail, Add	34.96	
For 1" Square x 14 Gauge Pickets, Add	46.62	
32 31 19 00-0048 EA 3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	576.00	18.05
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	125.53	
For Aluminum With Satin Finish, Add	148.40	
For Third Rail, Add	39.13	
For 1" Square x 14 Gauge Pickets, Add	52.18	
32 31 19 00-0049 EA 4' Wide x 3' High Steel Tube Single Swing Gate.....	637.35	19.10
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	139.10	
For Aluminum With Satin Finish, Add	165.35	
For Third Rail, Add	43.49	
For 1" Square x 14 Gauge Pickets, Add	57.99	
32 31 19 00-0050 EA 5' Wide x 3' High Steel Tube Single Swing Gate.....	670.47	20.48
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	146.24	
For Aluminum With Satin Finish, Add	173.46	
For Third Rail, Add	45.67	
For 1" Square x 14 Gauge Pickets, Add	60.90	
32 31 19 00-0051 EA 6' Wide x 3' High Steel Tube Single Swing Gate.....	749.56	24.52
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	163.13	
For Aluminum With Satin Finish, Add	191.73	
For Third Rail, Add	50.69	
For 1" Square x 14 Gauge Pickets, Add	67.59	
32 31 19 00-0052 EA 7' Wide x 3' High Steel Tube Single Swing Gate.....	798.34	28.56
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	173.19	
For Aluminum With Satin Finish, Add	200.90	
For Third Rail, Add	53.44	
For 1" Square x 14 Gauge Pickets, Add	71.26	
32 31 19 00-0053 EA 8' Wide x 3' High Steel Tube Single Swing Gate.....	871.92	32.86
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	188.78	
For Aluminum With Satin Finish, Add	217.15	
For Third Rail, Add	57.99	
For 1" Square x 14 Gauge Pickets, Add	77.32	
32 31 19 00-0054 EA 9' Wide x 3' High Steel Tube Single Swing Gate.....	935.86	36.90
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	202.25	
For Aluminum With Satin Finish, Add	230.87	
For Third Rail, Add	61.88	
For 1" Square x 14 Gauge Pickets, Add	82.50	
32 31 19 00-0055 EA 10' Wide x 3' High Steel Tube Single Swing Gate.....	992.22	40.95
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	214.02	
For Aluminum With Satin Finish, Add	242.32	
For Third Rail, Add	65.19	
For 1" Square x 14 Gauge Pickets, Add	86.92	
32 31 19 00-0056 EA 6' Wide x 3' High Steel Tube Double Swing Gate.....	1,082.59	34.47
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	235.81	
For Aluminum With Satin Finish, Add	278.17	
For Third Rail, Add	73.43	
For 1" Square x 14 Gauge Pickets, Add	97.90	
32 31 19 00-0057 EA 7' Wide x 3' High Steel Tube Double Swing Gate.....	1,153.26	36.10
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	251.35	
For Aluminum With Satin Finish, Add	297.18	
For Third Rail, Add	78.36	
For 1" Square x 14 Gauge Pickets, Add	104.48	
32 31 19 00-0058 EA 8' Wide x 3' High Steel Tube Double Swing Gate.....	1,274.71	38.27
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	278.19	
For Aluminum With Satin Finish, Add	330.70	
For Third Rail, Add	86.99	
For 1" Square x 14 Gauge Pickets, Add	115.98	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,335.61	39.66
			<i>For Solid Pickets, Add</i>	291.59	
			<i>For Aluminum With Satin Finish, Add</i>	347.15	
			<i>For Third Rail, Add</i>	91.25	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	121.67	
32 31 19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,385.14	40.95
			<i>For Solid Pickets, Add</i>	302.43	
			<i>For Aluminum With Satin Finish, Add</i>	360.19	
			<i>For Third Rail, Add</i>	94.66	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	126.21	
32 31 19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,559.76	49.04
			<i>For Solid Pickets, Add</i>	339.90	
			<i>For Aluminum With Satin Finish, Add</i>	401.65	
			<i>For Third Rail, Add</i>	105.94	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	141.25	
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,710.37	57.13
			<i>For Solid Pickets, Add</i>	371.97	
			<i>For Aluminum With Satin Finish, Add</i>	435.91	
			<i>For Third Rail, Add</i>	115.41	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	153.88	
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,837.35	65.79
			<i>For Solid Pickets, Add</i>	398.59	
			<i>For Aluminum With Satin Finish, Add</i>	462.35	
			<i>For Third Rail, Add</i>	122.99	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	163.99	
32 31 19 00-0064	EA		18' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,943.74	73.80
			<i>For Solid Pickets, Add</i>	420.71	
			<i>For Aluminum With Satin Finish, Add</i>	483.34	
			<i>For Third Rail, Add</i>	129.15	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	172.20	
32 31 19 00-0065	EA		20' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,031.19	81.89
			<i>For Solid Pickets, Add</i>	438.57	
			<i>For Aluminum With Satin Finish, Add</i>	498.65	
			<i>For Third Rail, Add</i>	133.89	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	178.52	
<b>32 31 19 00-0066</b>			<b>4' Fence Height Steel Tube Swing Gates, 2 Rail</b> (32 31 19 00-0045)		
32 31 19 00-0067	EA		3' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	597.89	16.18
			<i>For Solid Pickets, Add</i>	130.43	
			<i>For Aluminum With Satin Finish, Add</i>	154.78	
			<i>For Third Rail, Add</i>	40.74	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	54.33	
32 31 19 00-0068	EA		3'-6" Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	646.66	18.85
			<i>For Solid Pickets, Add</i>	141.25	
			<i>For Aluminum With Satin Finish, Add</i>	168.51	
			<i>For Third Rail, Add</i>	44.25	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	59.00	
32 31 19 00-0069	EA		4' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	697.44	20.23
			<i>For Solid Pickets, Add</i>	152.37	
			<i>For Aluminum With Satin Finish, Add</i>	181.92	
			<i>For Third Rail, Add</i>	47.76	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	63.68	
32 31 19 00-0070	EA		5' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	739.40	21.53
			<i>For Solid Pickets, Add</i>	161.51	
			<i>For Aluminum With Satin Finish, Add</i>	192.69	
			<i>For Third Rail, Add</i>	50.60	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	67.47	
32 31 19 00-0071	EA		6' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	797.83	25.89
			<i>For Solid Pickets, Add</i>	173.69	
			<i>For Aluminum With Satin Finish, Add</i>	204.39	
			<i>For Third Rail, Add</i>	54.01	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	72.01	
32 31 19 00-0072	EA		7' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	876.47	30.19
			<i>For Solid Pickets, Add</i>	190.41	
			<i>For Aluminum With Satin Finish, Add</i>	222.15	
			<i>For Third Rail, Add</i>	58.94	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	78.58	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0073 EA 8' Wide x 4' High Steel Tube Single Swing Gate.....	984.17	34.47
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	213.67	
<i>For Aluminum With Satin Finish, Add</i>	248.64	
<i>For Third Rail, Add</i>	66.04	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	88.06	
32 31 19 00-0074 EA 9' Wide x 4' High Steel Tube Single Swing Gate.....	1,089.35	38.84
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	236.36	
<i>For Aluminum With Satin Finish, Add</i>	274.37	
<i>For Third Rail, Add</i>	72.96	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	97.28	
32 31 19 00-0075 EA 10' Wide x 4' High Steel Tube Single Swing Gate.....	1,189.47	43.13
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	257.92	
<i>For Aluminum With Satin Finish, Add</i>	298.58	
<i>For Third Rail, Add</i>	79.50	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	106.00	
32 31 19 00-0076 EA 6' Wide x 4' High Steel Tube Double Swing Gate .....	1,195.77	36.42
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	260.85	
<i>For Aluminum With Satin Finish, Add</i>	309.57	
<i>For Third Rail, Add</i>	81.49	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.65	
32 31 19 00-0077 EA 7' Wide x 4' High Steel Tube Double Swing Gate .....	1,293.31	37.71
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	282.50	
<i>For Aluminum With Satin Finish, Add</i>	337.01	
<i>For Third Rail, Add</i>	88.50	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	118.00	
32 31 19 00-0078 EA 8' Wide x 4' High Steel Tube Double Swing Gate .....	1,394.90	40.46
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	304.75	
<i>For Aluminum With Satin Finish, Add</i>	363.84	
<i>For Third Rail, Add</i>	95.51	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	127.35	
32 31 19 00-0079 EA 9' Wide x 4' High Steel Tube Double Swing Gate .....	1,474.74	41.75
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	322.41	
<i>For Aluminum With Satin Finish, Add</i>	385.98	
<i>For Third Rail, Add</i>	101.20	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	134.93	
32 31 19 00-0080 EA 10' Wide x 4' High Steel Tube Double Swing Gate .....	1,541.96	43.13
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	337.23	
<i>For Aluminum With Satin Finish, Add</i>	404.32	
<i>For Third Rail, Add</i>	105.94	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	141.25	
32 31 19 00-0081 EA 12' Wide x 4' High Steel Tube Double Swing Gate .....	1,751.04	51.71
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	382.33	
<i>For Aluminum With Satin Finish, Add</i>	455.40	
<i>For Third Rail, Add</i>	119.68	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	159.57	
32 31 19 00-0082 EA 14' Wide x 4' High Steel Tube Double Swing Gate .....	1,934.88	60.37
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	421.75	
<i>For Aluminum With Satin Finish, Add</i>	498.89	
<i>For Third Rail, Add</i>	131.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	175.36	
32 31 19 00-0083 EA 16' Wide x 4' High Steel Tube Double Swing Gate .....	2,094.69	68.94
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	455.77	
<i>For Aluminum With Satin Finish, Add</i>	535.18	
<i>For Third Rail, Add</i>	141.56	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	188.75	
32 31 19 00-0084 EA 18' Wide x 4' High Steel Tube Double Swing Gate .....	2,233.02	77.61
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	484.95	
<i>For Aluminum With Satin Finish, Add</i>	565.03	
<i>For Third Rail, Add</i>	150.00	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	200.00	
32 31 19 00-0085 EA 20' Wide x 4' High Steel Tube Double Swing Gate .....	2,351.15	86.27
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	509.59	
<i>For Aluminum With Satin Finish, Add</i>	588.81	
<i>For Third Rail, Add</i>	156.91	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	209.22	

32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0087	EA	3' Wide x 5' High Steel Tube Single Swing Gate.....	650.45	18.85
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	142.10	
			For Aluminum With Satin Finish, Add	169.64	
			For Third Rail, Add	44.54	
			For 1" Square x 14 Gauge Pickets, Add	59.38	
32 31	19 00-0088	EA	3'-6" Wide x 5' High Steel Tube Single Swing Gate .....	686.07	20.23
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	149.81	
			For Aluminum With Satin Finish, Add	178.51	
			For Third Rail, Add	46.90	
			For 1" Square x 14 Gauge Pickets, Add	62.54	
32 31	19 00-0089	EA	4' Wide x 5' High Steel Tube Single Swing Gate.....	720.44	21.53
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	157.24	
			For Aluminum With Satin Finish, Add	187.00	
			For Third Rail, Add	49.18	
			For 1" Square x 14 Gauge Pickets, Add	65.57	
32 31	19 00-0090	EA	5' Wide x 5' High Steel Tube Single Swing Gate.....	769.98	22.90
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	168.09	
			For Aluminum With Satin Finish, Add	200.04	
			For Third Rail, Add	52.59	
			For 1" Square x 14 Gauge Pickets, Add	70.12	
32 31	19 00-0091	EA	6' Wide x 5' High Steel Tube Single Swing Gate.....	838.05	27.52
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	182.37	
			For Aluminum With Satin Finish, Add	214.27	
			For Third Rail, Add	56.66	
			For 1" Square x 14 Gauge Pickets, Add	75.55	
32 31	19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate.....	927.62	32.04
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	201.49	
			For Aluminum With Satin Finish, Add	234.95	
			For Third Rail, Add	62.35	
			For 1" Square x 14 Gauge Pickets, Add	83.13	
32 31	19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate.....	1,052.10	36.90
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	228.41	
			For Aluminum With Satin Finish, Add	265.74	
			For Third Rail, Add	70.59	
			For 1" Square x 14 Gauge Pickets, Add	94.12	
32 31	19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate.....	1,173.24	41.51
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	254.63	
			For Aluminum With Satin Finish, Add	295.89	
			For Third Rail, Add	78.65	
			For 1" Square x 14 Gauge Pickets, Add	104.86	
32 31	19 00-0095	EA	10' Wide x 5' High Steel Tube Single Swing Gate.....	1,291.86	46.05
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	280.29	
			For Aluminum With Satin Finish, Add	325.29	
			For Third Rail, Add	86.51	
			For 1" Square x 14 Gauge Pickets, Add	115.35	
32 31	19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate .....	1,278.39	31.80
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	280.83	
			For Aluminum With Satin Finish, Add	342.66	
			For Third Rail, Add	89.07	
			For 1" Square x 14 Gauge Pickets, Add	118.76	
32 31	19 00-0097	EA	7' Wide x 5' High Steel Tube Double Swing Gate .....	1,355.43	37.06
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	297.03	
			For Aluminum With Satin Finish, Add	358.96	
			For Third Rail, Add	93.71	
			For 1" Square x 14 Gauge Pickets, Add	124.95	
32 31	19 00-0098	EA	8' Wide x 5' High Steel Tube Double Swing Gate .....	1,433.37	42.64
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	313.36	
			For Aluminum With Satin Finish, Add	375.13	
			For Third Rail, Add	98.36	
			For 1" Square x 14 Gauge Pickets, Add	131.14	
32 31	19 00-0099	EA	9' Wide x 5' High Steel Tube Double Swing Gate .....	1,539.45	47.98
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	336.10	
			For Aluminum With Satin Finish, Add	400.15	
			For Third Rail, Add	105.18	
			For 1" Square x 14 Gauge Pickets, Add	140.24	
32 31	19 00-0100	EA	10' Wide x 5' High Steel Tube Double Swing Gate .....	1,632.92	53.25
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	355.99	
			For Aluminum With Satin Finish, Add	421.38	
			For Third Rail, Add	111.05	
			For 1" Square x 14 Gauge Pickets, Add	148.07	



<b>Exterior Improvements</b>	<b>32</b>
Site Improvements	32 30
Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0101 EA 12' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,858.30	59.23
For Solid Pickets, Add	405.43	
For Aluminum With Satin Finish, Add	481.38	
For Third Rail, Add	126.69	
For 1" Square x 14 Gauge Pickets, Add	168.92	
32 31 19 00-0102 EA 14' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,061.44	65.71
For Solid Pickets, Add	449.74	
For Aluminum With Satin Finish, Add	533.91	
For Third Rail, Add	140.52	
For 1" Square x 14 Gauge Pickets, Add	187.36	
32 31 19 00-0103 EA 16' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,243.64	72.91
For Solid Pickets, Add	489.20	
For Aluminum With Satin Finish, Add	579.36	
For Third Rail, Add	152.65	
For 1" Square x 14 Gauge Pickets, Add	203.53	
32 31 19 00-0104 EA 18' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,408.28	81.00
For Solid Pickets, Add	524.51	
For Aluminum With Satin Finish, Add	618.34	
For Third Rail, Add	163.26	
For 1" Square x 14 Gauge Pickets, Add	217.68	
32 31 19 00-0105 EA 20' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,555.38	90.07
For Solid Pickets, Add	555.67	
For Aluminum With Satin Finish, Add	650.85	
For Third Rail, Add	172.36	
For 1" Square x 14 Gauge Pickets, Add	229.81	
<b>32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)</b>		
32 31 19 00-0107 EA 3' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	677.59	20.72
For Solid Pickets, Add	147.78	
For Aluminum With Satin Finish, Add	175.24	
For Third Rail, Add	46.15	
For 1" Square x 14 Gauge Pickets, Add	61.53	
32 31 19 00-0108 EA 3'-6" Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	712.41	21.85
For Solid Pickets, Add	155.38	
For Aluminum With Satin Finish, Add	184.23	
For Third Rail, Add	48.51	
For 1" Square x 14 Gauge Pickets, Add	64.69	
32 31 19 00-0109 EA 4' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	747.81	23.07
For Solid Pickets, Add	163.06	
For Aluminum With Satin Finish, Add	193.13	
For Third Rail, Add	50.88	
For 1" Square x 14 Gauge Pickets, Add	67.85	
32 31 19 00-0110 EA 5' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	791.25	24.52
For Solid Pickets, Add	172.51	
For Aluminum With Satin Finish, Add	204.24	
For Third Rail, Add	53.82	
For 1" Square x 14 Gauge Pickets, Add	71.76	
32 31 19 00-0111 EA 6' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	888.74	29.62
For Solid Pickets, Add	193.29	
For Aluminum With Satin Finish, Add	226.57	
For Third Rail, Add	59.98	
For 1" Square x 14 Gauge Pickets, Add	79.97	
32 31 19 00-0112 EA 7' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	992.56	34.80
For Solid Pickets, Add	215.50	
For Aluminum With Satin Finish, Add	250.79	
For Third Rail, Add	66.61	
For 1" Square x 14 Gauge Pickets, Add	88.82	
32 31 19 00-0113 EA 8' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,108.20	39.66
For Solid Pickets, Add	240.42	
For Aluminum With Satin Finish, Add	278.93	
For Third Rail, Add	74.19	
For 1" Square x 14 Gauge Pickets, Add	98.92	
32 31 19 00-0114 EA 9' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,219.60	44.75
For Solid Pickets, Add	264.33	
For Aluminum With Satin Finish, Add	305.43	
For Third Rail, Add	81.39	
For 1" Square x 14 Gauge Pickets, Add	108.53	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,354.98	49.85
		<i>For Solid Pickets, Add</i>	293.64	
		<i>For Aluminum With Satin Finish, Add</i>	339.13	
		<i>For Third Rail, Add</i>	90.40	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	120.53	
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,328.47	34.32
		<i>For Solid Pickets, Add</i>	291.56	
		<i>For Aluminum With Satin Finish, Add</i>	354.48	
		<i>For Third Rail, Add</i>	92.29	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	123.06	
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,408.55	40.22
		<i>For Solid Pickets, Add</i>	308.31	
		<i>For Aluminum With Satin Finish, Add</i>	370.89	
		<i>For Third Rail, Add</i>	97.03	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	129.37	
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,487.74	45.81
		<i>For Solid Pickets, Add</i>	324.93	
		<i>For Aluminum With Satin Finish, Add</i>	387.44	
		<i>For Third Rail, Add</i>	101.77	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	135.69	
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,582.99	51.71
		<i>For Solid Pickets, Add</i>	345.09	
		<i>For Aluminum With Satin Finish, Add</i>	408.40	
		<i>For Third Rail, Add</i>	107.64	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	143.52	
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,731.30	57.62
		<i>For Solid Pickets, Add</i>	377.19	
		<i>For Aluminum With Satin Finish, Add</i>	445.28	
		<i>For Third Rail, Add</i>	117.50	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	156.66	
32 31 19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,029.20	64.17
		<i>For Solid Pickets, Add</i>	442.82	
		<i>For Aluminum With Satin Finish, Add</i>	526.24	
		<i>For Third Rail, Add</i>	138.44	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	184.58	
32 31 19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,126.37	71.70
		<i>For Solid Pickets, Add</i>	463.08	
		<i>For Aluminum With Satin Finish, Add</i>	545.78	
		<i>For Third Rail, Add</i>	144.12	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	192.16	
32 31 19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,335.24	79.80
		<i>For Solid Pickets, Add</i>	508.34	
		<i>For Aluminum With Satin Finish, Add</i>	598.02	
		<i>For Third Rail, Add</i>	158.05	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	210.74	
32 31 19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,527.82	88.77
		<i>For Solid Pickets, Add</i>	549.73	
		<i>For Aluminum With Satin Finish, Add</i>	644.18	
		<i>For Third Rail, Add</i>	170.56	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	227.41	
32 31 19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,707.53	99.05
		<i>For Solid Pickets, Add</i>	587.96	
		<i>For Aluminum With Satin Finish, Add</i>	684.88	
		<i>For Third Rail, Add</i>	181.83	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	242.45	
32 31 19 00-0126		<b>7' Fence Height Steel Tube Swing Gates, 2 Rail</b> (32 31 19 00-0045)		
32 31 19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	718.05	22.42
		<i>For Solid Pickets, Add</i>	156.51	
		<i>For Aluminum With Satin Finish, Add</i>	185.09	
		<i>For Third Rail, Add</i>	48.80	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	65.07	
32 31 19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	754.47	23.63
		<i>For Solid Pickets, Add</i>	164.43	
		<i>For Aluminum With Satin Finish, Add</i>	194.40	
		<i>For Third Rail, Add</i>	51.26	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	68.35	



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	791.05	24.85
			<i>For Solid Pickets, Add</i>	172.38	
			<i>For Aluminum With Satin Finish, Add</i>	203.70	
			<i>For Third Rail, Add</i>	53.73	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	71.64	
32 31	19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	827.70	26.13
			<i>For Solid Pickets, Add</i>	180.35	
			<i>For Aluminum With Satin Finish, Add</i>	212.99	
			<i>For Third Rail, Add</i>	56.19	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	74.92	
32 31	19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	958.39	31.80
			<i>For Solid Pickets, Add</i>	208.48	
			<i>For Aluminum With Satin Finish, Add</i>	244.55	
			<i>For Third Rail, Add</i>	64.72	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	86.29	
32 31	19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,078.17	37.23
			<i>For Solid Pickets, Add</i>	234.21	
			<i>For Aluminum With Satin Finish, Add</i>	273.20	
			<i>For Third Rail, Add</i>	72.49	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	96.65	
32 31	19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,165.92	42.81
			<i>For Solid Pickets, Add</i>	252.68	
			<i>For Aluminum With Satin Finish, Add</i>	291.87	
			<i>For Third Rail, Add</i>	77.79	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.73	
32 31	19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,265.49	48.24
			<i>For Solid Pickets, Add</i>	273.87	
			<i>For Aluminum With Satin Finish, Add</i>	314.46	
			<i>For Third Rail, Add</i>	84.05	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	112.06	
32 31	19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,387.34	53.89
			<i>For Solid Pickets, Add</i>	300.01	
			<i>For Aluminum With Satin Finish, Add</i>	343.37	
			<i>For Third Rail, Add</i>	91.91	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	122.55	
32 31	19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,406.34	36.73
			<i>For Solid Pickets, Add</i>	308.55	
			<i>For Aluminum With Satin Finish, Add</i>	374.63	
			<i>For Third Rail, Add</i>	97.60	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	130.13	
32 31	19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,489.85	42.97
			<i>For Solid Pickets, Add</i>	326.00	
			<i>For Aluminum With Satin Finish, Add</i>	391.67	
			<i>For Third Rail, Add</i>	102.53	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	136.70	
32 31	19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,574.23	49.52
			<i>For Solid Pickets, Add</i>	343.59	
			<i>For Aluminum With Satin Finish, Add</i>	408.58	
			<i>For Third Rail, Add</i>	107.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	143.27	
32 31	19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,659.00	55.76
			<i>For Solid Pickets, Add</i>	361.32	
			<i>For Aluminum With Satin Finish, Add</i>	426.00	
			<i>For Third Rail, Add</i>	112.47	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	149.97	
32 31	19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,868.46	62.31
			<i>For Solid Pickets, Add</i>	407.05	
			<i>For Aluminum With Satin Finish, Add</i>	480.42	
			<i>For Third Rail, Add</i>	126.78	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	169.04	
32 31	19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,256.59	69.51
			<i>For Solid Pickets, Add</i>	492.84	
			<i>For Aluminum With Satin Finish, Add</i>	587.65	
			<i>For Third Rail, Add</i>	154.36	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	205.81	
32 31	19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,235.15	77.93
			<i>For Solid Pickets, Add</i>	486.22	
			<i>For Aluminum With Satin Finish, Add</i>	570.40	
			<i>For Third Rail, Add</i>	150.95	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	201.26	



**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0143	EA		16' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,422.67	86.91
			<i>For Solid Pickets, Add</i>	526.47	
			<i>For Aluminum With Satin Finish, Add</i>	615.04	
			<i>For Third Rail, Add</i>	163.07	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	217.43	
32 31 19 00-0144	EA		18' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,646.62	97.19
			<i>For Solid Pickets, Add</i>	574.66	
			<i>For Aluminum With Satin Finish, Add</i>	669.00	
			<i>For Third Rail, Add</i>	177.67	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.89	
32 31 19 00-0145	EA		20' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,796.15	108.43
			<i>For Solid Pickets, Add</i>	605.90	
			<i>For Aluminum With Satin Finish, Add</i>	699.44	
			<i>For Third Rail, Add</i>	186.48	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	248.64	
<b>32 31 19 00-0146</b>			<b>8' Fence Height Steel Tube Swing Gates, 2 Rail</b> (32 31 19 00-0045)		
32 31 19 00-0147	EA		3' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	780.33	24.28
			<i>For Solid Pickets, Add</i>	170.11	
			<i>For Aluminum With Satin Finish, Add</i>	201.33	
			<i>For Third Rail, Add</i>	53.06	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	70.75	
32 31 19 00-0148	EA		3'-6" Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	818.49	25.57
			<i>For Solid Pickets, Add</i>	178.40	
			<i>For Aluminum With Satin Finish, Add</i>	210.96	
			<i>For Third Rail, Add</i>	55.62	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	74.16	
32 31 19 00-0149	EA		4' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	859.18	26.95
			<i>For Solid Pickets, Add</i>	187.25	
			<i>For Aluminum With Satin Finish, Add</i>	221.34	
			<i>For Third Rail, Add</i>	58.37	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	77.83	
32 31 19 00-0150	EA		5' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	896.28	30.02
			<i>For Solid Pickets, Add</i>	194.90	
			<i>For Aluminum With Satin Finish, Add</i>	228.28	
			<i>For Third Rail, Add</i>	60.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	80.61	
32 31 19 00-0151	EA		6' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,059.62	33.99
			<i>For Solid Pickets, Add</i>	230.77	
			<i>For Aluminum With Satin Finish, Add</i>	272.00	
			<i>For Third Rail, Add</i>	71.82	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	95.77	
32 31 19 00-0152	EA		7' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,180.47	40.95
			<i>For Solid Pickets, Add</i>	256.38	
			<i>For Aluminum With Satin Finish, Add</i>	298.79	
			<i>For Third Rail, Add</i>	79.31	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	105.75	
32 31 19 00-0153	EA		8' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,234.81	47.66
			<i>For Solid Pickets, Add</i>	267.09	
			<i>For Aluminum With Satin Finish, Add</i>	305.99	
			<i>For Third Rail, Add</i>	81.87	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.16	
32 31 19 00-0154	EA		9' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,325.34	54.71
			<i>For Solid Pickets, Add</i>	285.88	
			<i>For Aluminum With Satin Finish, Add</i>	323.68	
			<i>For Third Rail, Add</i>	87.08	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	116.11	
32 31 19 00-0155	EA		10' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,404.49	61.75
			<i>For Solid Pickets, Add</i>	302.11	
			<i>For Aluminum With Satin Finish, Add</i>	337.96	
			<i>For Third Rail, Add</i>	91.44	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	121.92	
32 31 19 00-0156	EA		6' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,528.43	39.25
			<i>For Solid Pickets, Add</i>	335.48	
			<i>For Aluminum With Satin Finish, Add</i>	408.06	
			<i>For Third Rail, Add</i>	106.22	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	141.63	



<b>Exterior Improvements</b>	<b>32</b>
Site Improvements	32 30
Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0157 EA 7' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,622.32  354.87 425.81 111.53 148.70	47.35
32 31 19 00-0158 EA 8' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,714.07  373.85 443.32 116.74 155.65	55.11
32 31 19 00-0159 EA 9' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,791.54  389.54 456.15 120.81 161.08	63.28
32 31 19 00-0160 EA 10' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,081.26  452.99 532.65 140.81 187.74	71.37
32 31 19 00-0161 EA 12' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,590.95  565.74 673.94 177.10 236.13	80.36
32 31 19 00-0162 EA 14' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,375.24  515.00 596.00 158.72 211.62	90.64
32 31 19 00-0163 EA 16' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,545.50  550.77 631.86 168.95 225.26	102.53
32 31 19 00-0164 EA 18' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,806.52  606.70 693.34 185.72 247.63	115.56
32 31 19 00-0165 EA 20' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,868.57  617.52 693.13 187.24 249.65	130.21
<b>32 31 19 00-0166 Replace Steel Tube Fence Pickets</b> <small>(32 31 19 00-0032)</small>		
32 31 19 00-0167 LF Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	22.92 0.67	
<b>32 31 19 00-0168 Remove And Reinstall Ornamental Fences</b> <small>(32 31 19)</small>		
Note: Removal and reinstallation of fences including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169 LF Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	36.42	
32 31 19 00-0170 LF Removal And Reinstallation Of Ornamental Fence, 6' Height.....	40.06	
32 31 19 00-0171 LF Removal And Reinstallation Of Ornamental Fence, 7' Height.....	43.70	
32 31 19 00-0172 LF Removal And Reinstallation Of Ornamental Fence, 8' Height.....	47.35	
32 31 19 00-0173 LF Removal And Reinstallation Of Ornamental Fence, 9' Height.....	50.98	
32 31 19 00-0174 LF Removal And Reinstallation Of Ornamental Fence, 10' Height.....	54.63	
32 31 19 00-0175 LF Removal And Reinstallation Of Ornamental Fence 12' Height.....	60.69	
<b>32 31 23 Plastic Fences And Gates</b> <small>(32 31)</small>		
<b>32 31 23 00-0001 Vinyl Fence</b> <small>(32 31 23)</small>		
<b>32 31 23 00-0002 Privacy Tongue And Groove Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Posts include flat cap.		
32 31 23 00-0003 LF 3' High Privacy Tongue And Groove Vinyl Fence .....	36.24	5.02
32 31 23 00-0004 LF 4' High Privacy Tongue And Groove Vinyl Fence .....	40.84	6.02
32 31 23 00-0005 LF 5' High Privacy Tongue And Groove Vinyl Fence .....	45.79	7.02
32 31 23 00-0006 LF 6' High Privacy Tongue And Groove Vinyl Fence .....	50.64	8.02

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 23 00-0007		<b>Semi-Privacy 6" Picket Vinyl Fence</b> <small>(32 31 23 00-0001)</small>			
		Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Posts include flat cap.			
32 31 23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence .....	48.74		7.02
32 31 23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence .....	53.63		8.02
32 31 23 00-0010		<b>Picket Straight Top Vinyl Fence</b> <small>(32 31 23 00-0001)</small>			
		Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.			
32 31 23 00-0011	LF	3' High Picket Straight Top Vinyl Fence .....	33.63		5.02
32 31 23 00-0012	LF	4' High Picket Straight Top Vinyl Fence .....	38.38		6.02
32 31 23 00-0013	LF	5' High Picket Straight Top Vinyl Fence .....	44.06		7.02
32 31 23 00-0014	LF	6' High Picket Straight Top Vinyl Fence .....	48.95		8.02
32 31 23 00-0015		<b>Picket Scalloped Top Vinyl Fence</b> <small>(32 31 23 00-0001)</small>			
		Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.			
32 31 23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence .....	36.98		5.02
32 31 23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence .....	41.83		6.02
32 31 23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence .....	47.29		7.02
32 31 23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence .....	52.28		8.02
32 31 23 00-0020		<b>Post And Rail Vinyl Fence, Ranch Style</b> <small>(32 31 23 00-0001)</small>			
		Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Posts include flat cap.			
32 31 23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence .....	15.33		5.02
32 31 23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence .....	19.43		6.02
32 31 23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence .....	22.15		6.51
32 31 23 00-0024		<b>Post, Rails And Pickets (Traditional Style) Vinyl Fence</b> <small>(32 31 23 00-0001)</small>			
		Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Posts include flat cap.			
32 31 23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts .....	43.11		5.52
32 31 23 00-0026	LF	4' High Rail And Picket Vinyl Fence, 72" On Center Posts .....	47.38		6.51
32 31 23 00-0027	LF	3' High Rail And Picket Vinyl Fence, 96" On Center Posts .....	40.55		5.02
32 31 23 00-0028	LF	4' High Rail And Picket Vinyl Fence, 96" On Center Posts .....	44.43		6.02
32 31 23 00-0029		<b>Vinyl Gates</b> <small>(32 31 23)</small>			
32 31 23 00-0030		<b>Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0029)</small>			
		Note: Includes hinges.			
32 31 23 00-0031		<b>3' High Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0030)</small>			
32 31 23 00-0032	EA	3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	397.92		50.15
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0033	EA	3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	421.92		52.66
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0034	EA	3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	461.45		55.16
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0035	EA	3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	514.77		57.67
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0036		<b>4' High Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0030)</small>			
32 31 23 00-0037	EA	4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	421.92		52.66
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0038	EA	4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	437.29		55.16
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0039	EA	4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	483.71		57.67
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0040	EA	4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	562.93		60.18
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0041		<b>5' High Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0030)</small>			
32 31 23 00-0042	EA	5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	437.29		55.16
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0043	EA	5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set .....	456.11		57.67
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	519.79 14.50 38.50	60.18
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	602.44 14.50 38.50	62.68
<b>32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0030)</small>		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	461.13 14.50 38.50	60.18
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	479.94 14.50 38.50	62.68
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	572.95 14.50 38.50	65.20
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	629.73 14.50 38.50	65.20
<b>32 31 23 00-0051 Gates For Picket Fences</b> <small>(32 31 23 00-0029)</small> Note: Includes hinges.		
<b>32 31 23 00-0052 3' High Gates For Picket Fences</b> <small>(32 31 23 00-0051)</small>		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	382.39 14.50 38.50	50.15
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	397.77 14.50 38.50	52.66
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	444.19 14.50 38.50	55.16
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	523.40 14.50 38.50	57.67
<b>32 31 23 00-0057 4' High Gates For Picket Fences</b> <small>(32 31 23 00-0051)</small>		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	387.41 14.50 38.50	52.66
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	402.79 14.50 38.50	55.16
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	449.20 14.50 38.50	57.67
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	528.42 14.50 38.50	60.18
<b>32 31 23 00-0062 5' High Gates For Picket Fences</b> <small>(32 31 23 00-0051)</small>		
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	402.79 14.50 38.50	55.16
32 31 23 00-0064 EA 5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	421.60 14.50 38.50	57.67
32 31 23 00-0065 EA 5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	485.28 14.50 38.50	60.18
32 31 23 00-0066 EA 5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	567.94 14.50 38.50	62.68
<b>32 31 23 00-0067 6' High Gates For Picket Fences</b> <small>(32 31 23 00-0051)</small>		
32 31 23 00-0068 EA 6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	426.62 14.50 38.50	60.18
32 31 23 00-0069 EA 6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	445.43 14.50 38.50	62.68
32 31 23 00-0070 EA 6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	538.44 14.50 38.50	65.20
32 31 23 00-0071 EA 6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	595.22 14.50 38.50	67.70

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0072		<b>Gates Accessories</b> (32 31 23 00-0029)		
32 31 23 00-0073	EA	Gate Stop/Drop Rod.....	87.17	
32 31 23 00-0074	EA	Latch Set.....	62.16	
32 31 23 00-0075	EA	Stainless Steel Latch Set.....	87.17	
<b>32 31 26</b>		<b>Wire Fences And Gates</b> (32 31)		
<b>32 31 26 13</b>		<b>Wire Fences with Steel Posts</b> (32 31 26)		
32 31 26 13-0001		<b>Chicken Wire</b> (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	6.57	1.48
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.26	1.48
32 31 26 13-0004		<b>Wire And Screen</b> (32 31 26 13)		
32 31 26 13-0005		<b>Wire And Screen For Partitions And Fences</b> (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006		<b>Screen Wire</b> (32 31 26 13-0005)		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls.....	10.90	1.01
32 31 26 13-0008		<b>Hog Wire</b> (32 31 26 13-0005)		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing.....	1.98	0.81
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing.....	2.08	0.91
32 31 26 13-0011		<b>Non-Climb Horse Fence</b> (32 31 26 13-0005)		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	8.72	3.23
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	11.11	4.04
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	13.80	4.85
32 31 26 13-0015		<b>Screen For Partitions And Ceilings</b> (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire.....	1.70	
32 31 26 13-0017		<b>Wicket Fence</b> (32 31 26 13)		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted.....	49.59	4.45
<b>32 31 29</b>		<b>Wood Fences And Gates</b> (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		<b>Basket Weave</b> (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	38.34	2.95
		For Fastening With Screws Instead Of Nails, Add	2.23	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	24.76	2.95
		For Fastening With Screws Instead Of Nails, Add	1.57	
32 31 29 00-0004		<b>Board Fence</b> (32 31 29) Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated.....	22.84	2.95
		For 1" x 6" Boards, Deduct	-2.41	
		For 1" x 3" Boards (Stockade Top), Add	3.00	
		For Fastening With Screws Instead Of Nails, Add	1.48	
32 31 29 00-0006	LF	Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated.....	25.41	2.95
		For 1" x 6" Boards, Deduct	-2.63	
		For 1" x 3" Boards (Stockade Top), Add	3.25	
		For Fastening With Screws Instead Of Nails, Add	1.64	
32 31 29 00-0007	LF	Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated.....	28.35	2.95
		For 1" x 6" Boards, Deduct	-2.80	
		For 1" x 3" Boards (Stockade Top), Add	3.43	
		For Fastening With Screws Instead Of Nails, Add	1.80	
32 31 29 00-0008	LF	Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated.....	30.27	2.95
		For 1" x 6" Boards, Deduct	-2.95	
		For 1" x 3" Boards (Stockade Top), Add	3.59	
		For Fastening With Screws Instead Of Nails, Add	1.91	
32 31 29 00-0009	LF	Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated.....	32.34	2.95
		For 1" x 6" Boards, Deduct	-3.10	
		For 1" x 3" Boards (Stockade Top), Add	3.76	
		For Fastening With Screws Instead Of Nails, Add	2.03	
32 31 29 00-0010	LF	Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar.....	24.40	2.95
		For 1" x 6" Boards, Deduct	-2.47	
		For 1" x 3" Boards (Stockade Top), Add	3.05	
		For Fastening With Screws Instead Of Nails, Add	1.56	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0011 LF Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	26.61 -2.67 3.29 1.70	2.95
32 31 29 00-0012 LF Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	28.35 -2.80 3.43 1.80	2.95
32 31 29 00-0013 LF Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	30.27 -2.95 3.59 1.91	2.95
32 31 29 00-0014 LF Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	32.34 -3.10 3.76 2.03	2.95
32 31 29 00-0015 LF Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	24.40 -2.47 3.05 1.56	2.95
32 31 29 00-0016 LF Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	31.92 -2.89 3.44 1.96	2.95
32 31 29 00-0017 LF Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	33.44 -3.01 3.59 2.05	2.95
32 31 29 00-0018 LF Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	35.96 -3.18 3.76 2.19	2.95
32 31 29 00-0019 LF Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar ..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	38.69 -3.35 3.95 2.34	2.95
<b>32 31 29 00-0020 Shadow Box</b> <small>(32 31 29)</small> Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine ..... <i>For Fastening With Screws Instead Of Nails, Add</i>	40.34 2.33	2.95
32 31 29 00-0022 LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar ..... <i>For Fastening With Screws Instead Of Nails, Add</i>	50.48 2.89	2.95
32 31 29 00-0023 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar ..... <i>For Fastening With Screws Instead Of Nails, Add</i>	54.81 3.12	2.95
32 31 29 00-0024 LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar ..... <i>For Fastening With Screws Instead Of Nails, Add</i>	58.88 3.35	2.95
<b>32 31 29 00-0025 Open Rail Fence</b> <small>(32 31 29)</small>		
<b>32 31 29 00-0026 Post And Rail Fence, Ranch Style</b> <small>(32 31 29 00-0025)</small>		
32 31 29 00-0027 LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	22.41	2.95
32 31 29 00-0028 LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	17.67	2.95
32 31 29 00-0029 LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	26.47	2.95
32 31 29 00-0030 LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	19.08	2.95
<b>32 31 29 00-0031 Split Rail Fence</b> <small>(32 31 29 00-0025)</small>		
32 31 29 00-0032 LF Split Rail Fence, 2 Rails, 3' High #1 Cedar.....	21.19	2.95
32 31 29 00-0033 LF Split Rail Fence, 2 Rails, 3' High #2 Cedar.....	17.61	2.95
32 31 29 00-0034 LF Split Rail Fence, 3 Rail, 4' High #1 Cedar.....	24.14	2.95
32 31 29 00-0035 LF Split Rail Fence, 3 Rail, 4' High #2 Cedar.....	19.77	2.95
<b>32 31 29 00-0036 Picket Fence</b> <small>(32 31 29)</small>		
32 31 29 00-0037 LF Picket Fence, 2 Rail, 3' High, Pressure Treated..... <i>For Fastening With Screws Instead Of Nails, Add</i>	23.76 1.54	2.95
32 31 29 00-0038 LF Picket Fence, 2 Rail, 3' High #1 Cedar..... <i>For Fastening With Screws Instead Of Nails, Add</i>	22.39 1.47	2.95
<b>32 31 29 00-0039 Wood Fence Post Accessories</b> <small>(32 31 29)</small>		
32 31 29 00-0040 EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	31.71	
32 31 29 00-0041 EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	34.95	
32 31 29 00-0042 EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	38.25	
32 31 29 00-0043 EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	54.49	
<b>32 31 29 00-0044 Wood Gate</b> <small>(32 31 29)</small>		

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences And Gates**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0045			<b>Board Fence Gates, Pressure Treated Wood</b> <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA		3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	365.33	115.29
32 31 29 00-0047	EA		3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	403.43	122.20
32 31 29 00-0048	EA		3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	450.74	133.72
32 31 29 00-0049	EA		3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	510.39	140.65
32 31 29 00-0050	EA		3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	570.05	147.56
32 31 29 00-0051	EA		>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	466.07	152.17
32 31 29 00-0052	EA		>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	506.86	159.08
32 31 29 00-0053	EA		>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	547.64	166.01
32 31 29 00-0054	EA		>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	615.39	172.92
32 31 29 00-0055	EA		>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	669.65	179.84
32 31 29 00-0056			<b>Board Fence Gates, Grade 2 Cedar</b> <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA		3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	548.69	92.40
32 31 29 00-0058	EA		3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	567.87	97.95
32 31 29 00-0059	EA		3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	597.13	107.19
32 31 29 00-0060	EA		3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	629.78	112.73
32 31 29 00-0061	EA		3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	670.51	118.28
32 31 29 00-0062	EA		>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	648.26	121.98
32 31 29 00-0063	EA		>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	672.82	127.52
32 31 29 00-0064	EA		>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	710.86	133.07
32 31 29 00-0065	EA		>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	748.91	138.61
32 31 29 00-0066	EA		>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	786.95	144.15
32 31 29 00-0067			<b>Board Fence Gates, Grade 1 Cedar</b> <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA		3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	589.12	92.40
32 31 29 00-0069	EA		3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	613.69	97.95
32 31 29 00-0070	EA		3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	645.64	107.19
32 31 29 00-0071	EA		3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	683.69	112.73
32 31 29 00-0072	EA		3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	721.72	118.28
32 31 29 00-0073	EA		>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	702.17	121.98
32 31 29 00-0074	EA		>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	726.73	127.52
32 31 29 00-0075	EA		>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	764.77	133.07
32 31 29 00-0076	EA		>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	802.81	138.61
32 31 29 00-0077	EA		>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	854.33	144.15
32 31 29 00-0078			<b>Pressure Treated Wood Fence Posts</b> <small>(32 31 29)</small> See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0670 for barbed wire, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079	EA		4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	34.83	11.53
32 31 29 00-0080	EA		6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	39.09	11.53
32 31 29 00-0081	EA		4' High, Pressure Treated Wood Fence Posts, Set In Concrete.....	61.52	22.14
32 31 29 00-0082	EA		6' High, Pressure Treated Wood Fence Posts, Set In Concrete.....	66.36	22.14
32 31 29 00-0083			<b>Wood Utility Pole Fence</b> <small>(32 31 29)</small> Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084	LF		Wood Utility Pole Barrier Fence.....	45.07	2.95
			Note: Includes notching post, drilling and pinned with #5 rebar.		
32 31 29 00-0085			<b>Wood Rail Fence</b> <small>(32 31 29)</small> Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086	LF		4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post.....	20.48	2.95
32 31 41			<b>Precast Concrete Fences</b> <small>(32 31)</small>		
32 31 41 00-0001			<b>Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete.</b> <small>(32 31 41)</small> Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002	LF		Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury.....	50.49	2.95
			Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.		
32 31 56			<b>Wild Life Deterrent Fence</b> <small>(32 31)</small>		
32 31 56 00-0001			<b>Barbed Wire Fences</b> <small>(32 31 56)</small> Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		



<b>Exterior Improvements</b>	<b>32</b>	
Site Improvements	32 30	32
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 31 56 00-0002 Fence Posts</b> (32 31 56 00-0001)		
<b>32 31 56 00-0003 Fence Post Soil, Set In Concrete</b> (32 31 56 00-0002)		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	70.17 112.60	6.47
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	92.64 150.12	6.47
<b>32 31 56 00-0006 Post In Rock</b> (32 31 56 00-0002)		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	68.74 110.45	6.47
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	91.21 147.98	6.47
<b>32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish</b> (32 31 56 00-0001)		
Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth .....	20.14	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth .....	20.63	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth .....	21.46	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth .....	22.29	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth .....	23.35	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth .....	26.11	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth .....	31.06	
<b>32 31 56 00-0017 Barbed Wire</b> (32 31 56 00-0001)		
Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand .....	0.70	0.32
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand .....	0.79	0.32
<b>32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts</b> (32 31 56 00-0001)		
Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021 LF 4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts .....	8.59	2.11
Note: Posts at 10' maximum.		
<b>32 32 Retaining Walls</b> (32 30)		
<b>32 32 13 Cast-In-Place Concrete Retaining Wall</b> (32 32)		
Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001 LF 4' High With Base, 10" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	325.51 8.05	115.42
32 32 13 00-0002 LF 6' High With Base, 10" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	406.48 10.40	142.04
32 32 13 00-0003 LF 8' High With Base, 10" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	443.13 11.62	153.20
32 32 13 00-0004 LF 10' High With Base, 13" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	565.78 15.90	189.43
32 32 13 00-0005 LF 12' High With Base, 14" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	652.20 18.44	217.59
32 32 13 00-0006 LF 16' High With Base, 16" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	942.53 25.86	319.20
32 32 13 00-0007 LF 20' High With Base, 18" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,293.31 35.01	440.68
32 32 13 00-0008 LF 4' High With Base, 12" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	357.88 8.99	126.06
32 32 13 00-0009 LF 6' High With Base, 12" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	438.62 11.47	151.89
32 32 13 00-0010 LF 8' High With Base, 12" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	464.95 12.58	158.48
32 32 13 00-0011 LF 10' High With Base, 16" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	640.89 18.36	212.39
32 32 13 00-0012 LF 12' High With Base, 18" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	811.85 22.63	272.81
32 32 13 00-0013 LF 16' High With Base, 21" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,216.35 33.10	413.54
32 32 13 00-0014 LF 20' High With Base, 24" Thick Reinforced..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,716.61 46.68	583.72
<b>32 32 16 Precast Concrete Retaining Walls</b> (32 32)		
<b>32 32 16 00-0001 Precast Retaining Walls</b> (32 32 16)		
Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002 SF Precast Concrete Retaining Walls, 10-15' High Tied-back Earth Walls .....	80.87	11.07
32 32 16 00-0003 SF Precast Concrete Retaining Walls, 16-20' High Tied-back Earth Walls .....	83.29	8.89
32 32 16 00-0004 SF Precast Concrete Retaining Walls, 21-25' High Tied-back Earth Walls .....	86.55	7.41

**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 16 00-0005	SF	Precast Concrete Retaining Walls, 26-30' High Tied-back Earth Walls .....	93.65	7.41
32 32 16 00-0006	SF	Precast Concrete Retaining Walls, >30' High Tied-back Earth Walls.....	99.22	6.32
<b>32 32 23 Segmental Retaining Walls (32 32)</b>				
<b>32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)</b>				
32 32 23 13-0001		<b>Modular Retaining Wall Systems (32 32 23 13)</b> Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002		<b>"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>		
32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System .....	67.29	7.73
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.41	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System .....	71.00	8.13
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.65	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System .....	73.87	8.95
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.76	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System .....	76.91	9.77
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.88	
32 32 23 13-0007		<b>"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>		
32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System.....	70.00	7.73
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.64	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System .....	73.70	8.13
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.88	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System .....	76.57	8.95
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.99	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System .....	79.62	9.77
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.11	
32 32 23 13-0012		<b>"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>		
32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System .....	76.48	7.73
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.19	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System.....	80.18	8.13
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.43	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System.....	83.05	8.95
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.54	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System.....	86.09	9.77
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.66	
32 32 23 13-0017		<b>"Cribblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>		
32 32 23 13-0018	SF	Up To 4' Height "Cribblock" Type Modular Retaining Wall System .....	67.29	7.73
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.41	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0019	SF	4 To 8' Height "Cribblock" Type Modular Retaining Wall System.....	71.00	8.13
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.65	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0020	SF	8 To 12' Height "Cribblock" Type Modular Retaining Wall System.....	73.87	8.95
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.76	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0021	SF	12 To 16' Height "Cribblock" Type Modular Retaining Wall System.....	76.91	9.77
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.88	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0022		<b>"Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>		
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System.....	59.08	7.73
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.71	
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System .....	65.49	8.13
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.18	
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System .....	68.40	8.95
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.29	
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System .....	70.94	9.77
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.37	
32 32 23 13-0027		<b>Retaining Wall Cap Block Restoration (32 32 23 13-0001)</b> Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins .....	25.72	
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>	1.24	
<b>32 32 26 Metal Crib Retaining Walls (32 32)</b>				
32 32 26 00-0001		<b>Aluminized Steel Bin (32 32 26)</b> Note: Excludes excavation and backfill.		



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0002	SF		4' High, 5.5' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	29.00 1.78 -2.09	4.06
32 32 26 00-0003	SF		8' High, 5.5' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	32.26 2.05 -2.41	4.06
32 32 26 00-0004	SF		10' High, 7.7' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	34.46 2.18 -2.56	4.44
32 32 26 00-0005	SF		12' High, 7.7' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	39.24 2.49 -2.92	5.01
32 32 26 00-0006	SF		16' High, 7.7' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	37.96 2.35 -2.77	5.19
32 32 26 00-0007	SF		16' High, 9.9' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	42.06 2.68 -3.16	5.29
32 32 26 00-0008	SF		20' High, 9.9' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	46.55 3.00 -3.53	5.57
32 32 26 00-0009	SF		20' High, 12.1' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	47.69 3.07 -3.61	5.85
32 32 26 00-0010	SF		24' High, 12.1' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	50.06 3.26 -3.83	5.85
32 32 26 00-0011	SF		24' High, 14.3' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	52.40 3.45 -4.06	5.95
32 32 26 00-0012	SF		28' High, 14.3' Deep Aluminized Steel Bin <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	54.11 3.58 -4.21	6.04

**32 32 29 Timber Retaining Walls** (32 32)

**32 32 29 00-0001 Wood Post Retaining Walls** (32 32 29)

Note: System elements include wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF		4" x 4", 1' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	73.68 1.99	25.16
32 32 29 00-0003	LF		4" x 4", 2' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	144.20 3.89	49.26
32 32 29 00-0004	LF		4" x 4", 1' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	70.69 1.74	25.16
32 32 29 00-0005	LF		4" x 4", 2' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	138.38 3.39	49.26
32 32 29 00-0006	LF		4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	77.81 2.87	21.99
32 32 29 00-0007	LF		4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	152.36 5.64	43.00
32 32 29 00-0008	LF		4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	58.83 1.68	19.51
32 32 29 00-0009	LF		4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	106.38 3.04	35.32
32 32 29 00-0010	LF		6" x 6", 2' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	195.86 6.50	59.68
32 32 29 00-0011	LF		6" x 6", 4' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	386.89 13.01	116.97
32 32 29 00-0012	LF		6" x 6", 2' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	192.53 6.22	59.68
32 32 29 00-0013	LF		6" x 6", 4' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	378.58 12.30	116.97
32 32 29 00-0014	LF		6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	204.57 9.15	48.47
32 32 29 00-0015	LF		6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	406.65 18.29	95.70
32 32 29 00-0016	LF		6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	134.98 4.88	38.75
32 32 29 00-0017	LF		6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	265.61 9.68	75.83
32 32 29 00-0018	LF		8" x 8", 4' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	486.61 19.37	129.34
32 32 29 00-0019	LF		8" x 8", 6' High, Redwood, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	910.34 36.34	241.46
32 32 29 00-0020	LF		8" x 8", 4' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	469.97 17.96	129.34
32 32 29 00-0021	LF		8" x 8", 6' High, Cedar, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	878.74 33.65	241.46
32 32 29 00-0022	LF		8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	553.63 21.69	149.19
32 32 29 00-0023	LF		8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,032.67 40.41	278.62



**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0024	LF	8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	.....	378.40	120.60
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		11.66	
32 32 29 00-0025	LF	8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	.....	701.85	223.71
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		21.63	
32 32 29 00-0026	LF	4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	.....	141.06	49.70
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		3.53	
32 32 29 00-0027	LF	6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	.....	210.77	74.60
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		5.23	
32 32 29 00-0028	LF	8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	.....	280.39	99.41
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		6.93	
32 32 29 00-0029	LF	4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	.....	96.95	28.07
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		3.46	
32 32 29 00-0030	LF	6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	.....	140.94	40.53
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		5.09	
32 32 29 00-0031	LF	8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	.....	190.91	54.74
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		6.93	

**32 32 29 00-0032 Post And Board Retaining Walls** (32 32 29)

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	60.04	14.92
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		2.57	
32 32 29 00-0034	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	91.73	25.52
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		3.46	
32 32 29 00-0035	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls	.....	120.81	31.69
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		4.88	
32 32 29 00-0036	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	168.79	44.94
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		6.72	
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	220.83	58.44
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		8.84	
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	454.18	115.65
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		18.95	
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls	.....	513.97	128.10
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		21.92	
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	.....	60.86	15.54
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		2.53	
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	.....	106.79	27.63
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		4.38	
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	.....	104.95	27.10
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		4.31	
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	.....	146.88	38.93
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		5.87	
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	.....	228.31	62.15
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		8.84	
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	.....	181.15	47.76
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.28	
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	.....	469.90	119.36
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		19.65	
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated	.....	74.50	28.69
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		1.45	
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated	.....	107.94	40.79
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		2.24	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat	.....	157.64	55.97
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		3.89	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated	.....	277.95	94.47
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.56	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated	.....	282.11	94.47
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.92	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat	.....	264.72	90.76
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.07	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	.....	623.77	208.79
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		17.53	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking	.....	74.50	28.69
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		1.45	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking	.....	107.94	40.79
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		2.24	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	.....	157.64	55.97
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		3.89	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking	.....	198.30	69.66
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		5.02	
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls	.....	277.95	94.47
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.56	
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls	.....	264.72	90.76
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		7.07	
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls	.....	623.77	208.79
		<i>For &gt;3:1 Sloped Soil At Top, Add</i>		17.53	

**32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4'** (32 32 29)

Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.



<b>Exterior Improvements</b>	<b>32</b>	
Site Improvements	32 30	32
Retaining Walls	32 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 32 29 00-0062 Redwood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063 LF 2' High, 6" x 6" Wood Tie Wall .....	101.09	30.55
For >3:1 Sloped Soil At Top, Add	3.39	
32 32 29 00-0064 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	230.74	69.66
For >3:1 Sloped Soil At Top, Add	7.78	
32 32 29 00-0065 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	345.33	104.44
For >3:1 Sloped Soil At Top, Add	11.59	
32 32 29 00-0066 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	337.04	89.51
For >3:1 Sloped Soil At Top, Add	13.43	
32 32 29 00-0067 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	506.50	134.28
For >3:1 Sloped Soil At Top, Add	20.22	
32 32 29 00-0068 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	669.14	176.57
For >3:1 Sloped Soil At Top, Add	26.86	
<b>32 32 29 00-0069 Cedar</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070 LF 2' High, 6" x 6" Wood Tie Wall .....	99.43	30.55
For >3:1 Sloped Soil At Top, Add	3.25	
32 32 29 00-0071 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	225.75	69.66
For >3:1 Sloped Soil At Top, Add	7.35	
32 32 29 00-0072 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	338.67	104.44
For >3:1 Sloped Soil At Top, Add	11.03	
32 32 29 00-0073 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	325.40	89.51
For >3:1 Sloped Soil At Top, Add	12.44	
32 32 29 00-0074 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	489.86	134.28
For >3:1 Sloped Soil At Top, Add	18.80	
32 32 29 00-0075 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	645.85	176.57
For >3:1 Sloped Soil At Top, Add	24.88	
<b>32 32 29 00-0076 Creosoted Wood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077 LF 2' High, 6" x 8" Wood Tie Wall .....	109.42	40.53
For >3:1 Sloped Soil At Top, Add	2.41	
32 32 29 00-0078 LF 4' High, 6" x 8" Wood Tie Wall Deadman At 6' .....	250.56	93.23
For >3:1 Sloped Soil At Top, Add	5.44	
32 32 29 00-0079 LF 6' High, 6" x 8" Wood Tie Wall Deadman At 6' .....	371.65	137.98
For >3:1 Sloped Soil At Top, Add	8.13	
32 32 29 00-0080 LF 4' High, 7" x 9" Wood Tie Wall Deadman At 6' .....	503.53	187.69
For >3:1 Sloped Soil At Top, Add	10.89	
32 32 29 00-0081 LF 6' High, 7" x 9" Wood Tie Wall Deadman At 6' .....	733.12	273.41
For >3:1 Sloped Soil At Top, Add	15.84	
32 32 29 00-0082 LF 8' High, 7" x 9" Wood Tie Wall Deadman At 6' .....	972.87	362.49
For >3:1 Sloped Soil At Top, Add	21.07	
<b>32 32 29 00-0083 Pressure Treated Wood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0084 LF 2' High, 6" x 6" Wood Tie Wall .....	88.00	25.25
For >3:1 Sloped Soil At Top, Add	3.19	
32 32 29 00-0085 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	200.05	57.21
For >3:1 Sloped Soil At Top, Add	7.28	
32 32 29 00-0086 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6' .....	299.66	85.81
For >3:1 Sloped Soil At Top, Add	10.89	
32 32 29 00-0087 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	323.59	103.21
For >3:1 Sloped Soil At Top, Add	9.97	
32 32 29 00-0088 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	486.37	154.23
For >3:1 Sloped Soil At Top, Add	15.13	
32 32 29 00-0089 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' .....	644.65	205.09
For >3:1 Sloped Soil At Top, Add	19.94	
<b>32 32 53 Stone Retaining Walls</b> <small>(32 32)</small>		
<b>32 32 53 00-0001 Stone Retaining Walls</b> <small>(32 32 53)</small>		
Note: Construction is either dry set or mortar set. System elements include concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
<b>32 32 53 00-0002 Stone Retaining Walls</b> <small>(32 32 53 00-0001)</small>		
Note: Stone at \$16.00/ton.		
32 32 53 00-0003 LF \$16.00/ton 3' High Stone Retaining Wall, Dry Set .....	395.51	183.14
For >3:1 Sloped Soil At Top, Add	2.48	
32 32 53 00-0004 LF \$16.00/ton 4' High Stone Retaining Wall, Dry Set .....	467.69	217.88
For >3:1 Sloped Soil At Top, Add	2.71	
32 32 53 00-0005 LF \$16.00/ton 6' High Stone Retaining Wall, Dry Set .....	616.23	289.48
For >3:1 Sloped Soil At Top, Add	3.17	
32 32 53 00-0006 LF \$16.00/ton 8' High Stone Retaining Wall, Dry Set .....	953.43	452.61
For >3:1 Sloped Soil At Top, Add	4.09	
32 32 53 00-0007 LF \$16.00/ton 10' High Stone Retaining Wall, Dry Set .....	1,241.15	592.06
For >3:1 Sloped Soil At Top, Add	4.84	
32 32 53 00-0008 LF \$16.00/ton 12' High Stone Retaining Wall, Dry Set .....	1,541.78	737.29
For >3:1 Sloped Soil At Top, Add	5.71	
32 32 53 00-0009 LF \$16.00/ton 3' High Stone Retaining Wall, Mortar Set .....	353.46	162.15
For >3:1 Sloped Soil At Top, Add	2.48	

**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0010	LF		\$16.00/ton 4' High Stone Retaining Wall, Mortar Set	415.62	191.85
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	2.71	
32 32 53 00-0011	LF		\$16.00/ton 6' High Stone Retaining Wall, Mortar Set	539.37	251.00
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.17	
32 32 53 00-0012	LF		\$16.00/ton 8' High Stone Retaining Wall, Mortar Set	829.71	390.78
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.09	
32 32 53 00-0013	LF		\$16.00/ton 10' High Stone Retaining Wall, Mortar Set	1,067.60	505.33
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.84	
32 32 53 00-0014	LF		\$16.00/ton 12' High Stone Retaining Wall, Mortar Set	1,327.71	630.30
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.71	
<b>32 32 53 00-0015</b>			<b>Stone Retaining Walls (32 32 53 00-0001)</b>		
			Note: Stone at \$32.00/ton.		
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set	404.33	183.14
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.23	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set	479.89	217.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.75	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set	633.87	289.48
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.67	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set	979.21	452.61
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	6.28	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,276.42	592.06
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	7.84	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set	1,586.55	737.29
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	9.51	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set	362.28	162.15
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.23	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set	427.82	191.85
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	3.75	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set	557.01	251.00
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.67	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set	855.49	390.78
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	6.28	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set	1,102.87	505.33
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	7.84	
32 32 53 00-0027	LF		\$32.00/ton 12' High Stone Retaining Wall, Mortar Set	1,372.48	630.30
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	9.51	
<b>32 32 53 00-0028</b>			<b>Stone Retaining Walls (32 32 53 00-0001)</b>		
			Note: Stone at \$48.00/ton.		
32 32 53 00-0029	LF		\$48.00/ton 3' High Stone Retaining Wall, Dry Set	413.83	183.14
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.04	
32 32 53 00-0030	LF		\$48.00/ton 4' High Stone Retaining Wall, Dry Set	491.97	217.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.77	
32 32 53 00-0031	LF		\$48.00/ton 6' High Stone Retaining Wall, Dry Set	650.82	289.48
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	6.11	
32 32 53 00-0032	LF		\$48.00/ton 8' High Stone Retaining Wall, Dry Set	1,004.98	452.61
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	8.47	
32 32 53 00-0033	LF		\$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,311.69	592.06
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	10.84	
32 32 53 00-0034	LF		\$48.00/ton 12' High Stone Retaining Wall, Dry Set	1,631.99	737.29
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	13.37	
32 32 53 00-0035	LF		\$48.00/ton 3' High Stone Retaining Wall, Mortar Set	371.78	162.15
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.04	
32 32 53 00-0036	LF		\$48.00/ton 4' High Stone Retaining Wall, Mortar Set	440.03	191.85
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.78	
32 32 53 00-0037	LF		\$48.00/ton 6' High Stone Retaining Wall, Mortar Set	573.96	251.00
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	6.11	
32 32 53 00-0038	LF		\$48.00/ton 8' High Stone Retaining Wall, Mortar Set	881.26	390.78
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	8.47	
32 32 53 00-0039	LF		\$48.00/ton 10' High Stone Retaining Wall, Mortar Set	1,138.14	505.33
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	10.84	
32 32 53 00-0040	LF		\$48.00/ton 12' High Stone Retaining Wall, Mortar Set	1,417.92	630.30
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	13.37	
<b>32 32 53 00-0041</b>			<b>Stone Retaining Walls (32 32 53 00-0001)</b>		
			Note: Stone at \$64.00/ton.		
32 32 53 00-0042	LF		\$64.00/ton 3' High Stone Retaining Wall, Dry Set	423.32	183.14
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.84	
32 32 53 00-0043	LF		\$64.00/ton 4' High Stone Retaining Wall, Dry Set	490.75	217.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.67	
32 32 53 00-0044	LF		\$64.00/ton 6' High Stone Retaining Wall, Dry Set	669.13	289.48
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	7.67	
32 32 53 00-0045	LF		\$64.00/ton 8' High Stone Retaining Wall, Dry Set	1,032.11	452.61
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	10.78	
32 32 53 00-0046	LF		\$64.00/ton 10' High Stone Retaining Wall, Dry Set	1,348.31	592.06
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	13.95	
32 32 53 00-0047	LF		\$64.00/ton 12' High Stone Retaining Wall, Dry Set	1,678.11	737.29
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	17.29	
32 32 53 00-0048	LF		\$64.00/ton 3' High Stone Retaining Wall, Mortar Set	381.27	162.15
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	4.84	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0049	LF		\$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	452.24	191.85
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	5.82	
32 32 53 00-0050	LF		\$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	592.27	251.00
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	7.67	
32 32 53 00-0051	LF		\$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	908.39	390.78
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	10.78	
32 32 53 00-0052	LF		\$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,174.76	505.33
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	13.95	
32 32 53 00-0053	LF		\$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,464.04	630.30
			<i>For &gt;3:1 Sloped Soil At Top, Add</i>	17.29	

**32 35 Screening Devices** (32 30)

**32 35 16 Sound Barriers** (32 35)

**32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps**

**For Columns** (32 35 16)

Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)

**32 35 16 00-0002 4" Thick** (32 35 16 00-0001)

32 35 16 00-0003	LF	6' High x 4" Thick Precast Concrete Sound Walls.....	157.01	20.31
32 35 16 00-0004	LF	7' High x 4" Thick Precast Concrete Sound Walls.....	169.70	22.67
32 35 16 00-0005	LF	8' High x 4" Thick Precast Concrete Sound Walls.....	184.74	24.55
32 35 16 00-0006	LF	9' High x 4" Thick Precast Concrete Sound Walls.....	197.03	26.44
32 35 16 00-0007	LF	10' High x 4" Thick Precast Concrete Sound Walls.....	208.39	28.34
32 35 16 00-0008	LF	11' High x 4" Thick Precast Concrete Sound Walls.....	224.74	29.27
32 35 16 00-0009	LF	12' High x 4" Thick Precast Concrete Sound Walls.....	240.69	30.70

**32 35 16 00-0010 6" Thick** (32 35 16 00-0001)

32 35 16 00-0011	LF	6' High x 6" Thick Precast Concrete Sound Walls.....	187.44	23.61
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls.....	202.56	26.44
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls.....	220.54	29.27
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls.....	235.18	31.17
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls.....	248.74	33.06
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls.....	268.31	34.47
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls.....	287.40	35.89

**32 35 16 00-0018 8" Thick** (32 35 16 00-0001)

32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls.....	226.57	28.34
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls.....	244.80	31.17
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls.....	266.52	34.00
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls.....	284.20	36.84
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls.....	300.57	39.20
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls.....	324.31	40.61
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls.....	347.49	42.49

**32 35 16 00-0026 Redwood Top** (32 35 16 00-0001)

32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough.....	3.91	1.01
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough.....	4.58	1.32
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough.....	6.90	1.62
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough.....	8.32	2.01
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth.....	4.71	1.01
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth.....	6.76	1.32
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth.....	8.92	1.62
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth.....	10.72	2.01

**32 39 Manufactured Site Specialties** (32 30)

Note: Excludes core drilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

**32 39 13 Manufactured Metal Bollards** (32 39)

**32 39 13 00-0001 Metal Pipe Bollards** (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

**32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated** (32 39 13 00-0001)

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	42.61	10.77
		<i>For Galvanized Steel, Add</i>	3.58	
		<i>For 304 Stainless Steel, Add</i>	28.43	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	110.20	
		<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	79.60	
		<i>For Schedule 80, Add</i>	5.31	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	8.55	

**32 Exterior Improvements****32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0004 LF 6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	54.76	10.77
For Galvanized Steel, Add	5.65	
For 304 Stainless Steel, Add	44.83	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	110.20	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	79.60	
For Schedule 80, Add	7.14	
For Concrete Fill, Add Per LF Of Pipe Bollard	12.12	
32 39 13 00-0005 LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	76.20	13.48
For Galvanized Steel, Add	8.37	
For 304 Stainless Steel, Add	66.50	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	145.76	
For Each Sleeve For Removable, Lockable Bollard, Add	120.27	
For Schedule 80, Add	10.08	
For Concrete Fill, Add Per LF Of Pipe Bollard	16.18	
32 39 13 00-0006 LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	99.73	16.17
For Galvanized Steel, Add	11.46	
For 304 Stainless Steel, Add	90.99	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	167.32	
For Each Sleeve For Removable, Lockable Bollard, Add	130.70	
For Schedule 80, Add	13.34	
For Concrete Fill, Add Per LF Of Pipe Bollard	19.81	
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	126.75	21.55
For Galvanized Steel, Add	14.22	
For 304 Stainless Steel, Add	112.91	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	225.37	
For Each Sleeve For Removable, Lockable Bollard, Add	180.26	
For Schedule 80, Add	16.86	
For Concrete Fill, Add Per LF Of Pipe Bollard	23.16	
<b>32 39 13 00-0008 Cast Bollards (32 39 13 00-0001)</b>		
32 39 13 00-0009 EA 36" Cast Aluminum Bollard, Black Powder Coat Finish.....	1,122.05	64.66
Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0010 EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish.....	1,868.59	64.66
Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
32 39 13 00-0011 EA 36" Cast Iron Bollard, Powder Coat Finish.....	956.99	64.66
Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0012 EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish.....	1,707.96	64.66
Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
<b>32 39 23 Manufactured Concrete Bollards (32 39)</b>		
<b>32 39 23 00-0001 Concrete Bollards (32 39 23)</b>		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
<b>32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)</b>		
32 39 23 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Sandblast.....	568.98	86.21
Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Sandblast.....	568.98	86.21
Note: Surface mounted with anchor bolts embedded into grout pockets.		
<b>32 39 25 Manufactured Wood Bollards (32 39)</b>		
<b>32 39 25 00-0001 Wood Bollards (32 39 25)</b>		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
<b>32 39 25 00-0002 Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)</b>		
32 39 25 00-0003 LF 4" x 4", Pressure Treated Wood Bollard.....	20.37	8.62
For Each Sleeve For Removable, Lockable Bollard, Add	80.36	
32 39 25 00-0004 LF 6" x 6", Pressure Treated Wood Bollard.....	23.66	8.62
For Each Sleeve For Removable, Lockable Bollard, Add	80.36	
32 39 25 00-0005 LF 8" x 8", Pressure Treated Wood Bollard.....	30.83	9.69
For Each Sleeve For Removable, Lockable Bollard, Add	122.72	
32 39 25 00-0006 LF 10" x 10", Pressure Treated Wood Bollard.....	43.67	12.94
For Each Sleeve For Removable, Lockable Bollard, Add	135.22	
32 39 25 00-0007 LF 12" x 12", Pressure Treated Wood Bollard.....	60.14	17.24
For Each Sleeve For Removable, Lockable Bollard, Add	190.07	
<b>32 39 27 Manufactured Plastic Bollards (32 39)</b>		
<b>32 39 27 00-0001 Plastic Bollards (32 39 27)</b>		
See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
<b>32 39 27 00-0002 Recycled Plastic Bollards (32 39 27 00-0001)</b>		
32 39 27 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard.....	227.69	43.11
Note: Includes anchor bolts.		
32 39 27 00-0004 EA 6" Diameter x 6" Steel Reinforced Recycled Plastic Bollard.....	353.65	43.11
<b>32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)</b>		





	<b>Exterior Improvements</b>	<b>32</b>
	<b>Site Improvements</b>	<b>32 30</b>
	<b>Manufactured Site Specialties</b>	<b>32 39</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0006	EA		4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe ..... <i>For Reflective Tape, Add</i>	56.35 5.94	9.46
32 39 27 00-0007	EA		6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	61.11 5.94	10.41
32 39 27 00-0008	EA		3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe ..... <i>For Reflective Tape, Add</i>	75.07 5.94	9.46
32 39 27 00-0009	EA		3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe ..... <i>For Reflective Tape, Add</i>	75.07 5.94	9.46
32 39 27 00-0010	EA		3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe ..... <i>For Reflective Tape, Add</i>	83.81 5.94	9.46
32 39 27 00-0011	EA		4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe ..... <i>For Reflective Tape, Add</i>	75.07 5.94	9.46
32 39 27 00-0012	EA		4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe ..... <i>For Reflective Tape, Add</i>	76.32 5.94	9.46
32 39 27 00-0013	EA		5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe ..... <i>For Reflective Tape, Add</i>	75.07 5.94	9.46
32 39 27 00-0014	EA		5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe ..... <i>For Reflective Tape, Add</i>	76.32 5.94	9.46
32 39 27 00-0015	EA		5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe ..... <i>For Reflective Tape, Add</i>	105.02 5.94	9.46
32 39 27 00-0016	EA		6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	76.96 5.94	10.41
32 39 27 00-0017	EA		6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	96.93 5.94	10.41
32 39 27 00-0018	EA		6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	109.79 5.94	10.41
32 39 27 00-0019	EA		7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	93.83 5.94	11.35
32 39 27 00-0020	EA		8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe ..... <i>For Reflective Tape, Add</i>	101.31 5.94	11.35
32 39 27 00-0021	EA		8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe ..... <i>For Reflective Tape, Add</i>	101.31 5.94	11.35
32 39 27 00-0022	EA		10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe ..... <i>For Reflective Tape, Add</i>	135.02 5.94	11.35

**32 39 29 Manufactured Stone Bollards (32 39)**

32 39 29 00-0001	<b>Stone Bollards (32 39 29)</b> See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.			
32 39 29 00-0002	<b>Granite Bollards (32 39 29 00-0001)</b>			
32 39 29 00-0003	EA		16" x 16" x 30" Granite Bollard, Smooth Matt Finish ..... Note: Surface mounted with anchors embedded into grout pockets.	1,203.02 107.77
32 39 29 00-0004	EA		16" x 16" x 54" Granite Bollard, Smooth Matt Finish ..... Note: Surface mounted with anchors embedded into grout pockets.	1,522.64 150.87
32 39 29 00-0005	EA		12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top ..... Note: Surface mounted with anchors embedded into grout pockets.	743.39 107.77
32 39 29 00-0006	EA		12" Diameter x 18" Granite Bollard, Smooth Matt Finish ..... Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,106.05 86.21
32 39 29 00-0007	EA		24" x 24" x 20" Granite Bollard, Octagonal Cross Section ..... Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,653.66 86.21

**32 80 Irrigation (32)**

**32 84 Planting Irrigation (32 80)**

**32 84 13 Drip Irrigation (32 84)**

32 84 13 00-0001	<b>Drip Emitter Irrigation Devices (32 84 13)</b>			
32 84 13 00-0002	<b>Drip Emitter Irrigation Valves (32 84 13 00-0001)</b>			
32 84 13 00-0003	EA		1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050) .....	38.65 10.02
32 84 13 00-0004	EA		1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100).....	54.50 10.02
32 84 13 00-0005	EA		3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075) .....	53.39 10.02
32 84 13 00-0006	EA		3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS) .....	68.28 10.02
32 84 13 00-0007	<b>Drip Emitter Irrigation Filters (32 84 13 00-0001)</b>			
32 84 13 00-0008	EA		3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	99.75 10.02
32 84 13 00-0009	EA		1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	100.57 10.02
32 84 13 00-0010	EA		3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX) .....	45.57 10.02
32 84 13 00-0011	EA		1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX) .....	46.23 10.02
32 84 13 00-0012	EA		1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100) .....	107.38 10.02
32 84 13 00-0013	EA		3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY) .....	55.43 10.02
32 84 13 00-0014	EA		1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY) .....	60.56 10.02

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0015			<b>Drip Emitter Irrigation Pressure Regulators</b> (32 84 13 00-0001)		
32 84 13 00-0016	EA		3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	44.91	10.02
32 84 13 00-0017	EA		3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	44.91	10.02
32 84 13 00-0018	EA		3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	44.91	10.02
32 84 13 00-0019	EA		1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	50.30	10.02
32 84 13 00-0020			<b>Drip Emitter Irrigation Tubing</b> (32 84 13 00-0001)		
			Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF		1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	3.47	1.41
32 84 13 00-0022	LF		1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	3.39	1.61
32 84 13 00-0023	LF		1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	2.94	1.41
			For Shallow Trenching And Backfill By Hand, Add	5.76	
32 84 13 00-0024	LF		1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	3.38	1.61
			For Shallow Trenching And Backfill By Hand, Add	6.24	
32 84 13 00-0025			<b>Drip Emitter Irrigation Fittings</b> (32 84 13 00-0001)		
32 84 13 00-0026	EA		1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN).....	2.60	
32 84 13 00-0027	EA		1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	2.62	
32 84 13 00-0028	EA		1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE).....	2.65	
32 84 13 00-0029	EA		1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	2.74	
32 84 13 00-0030	EA		1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX).....	2.58	
32 84 13 00-0031	EA		17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP).....	2.70	
			For Compression Fitting, Add	0.20	
32 84 13 00-0032	EA		17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	2.75	
			For Compression Fitting, Add	0.25	
32 84 13 00-0033	EA		17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE).....	2.78	
			For Compression Fitting, Add	0.28	
32 84 13 00-0034	EA		17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050).....	2.79	
			For Compression Fitting, Add	0.29	
32 84 13 00-0035	EA		17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS).....	2.91	
			For Compression Fitting, Add	0.41	
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	3.05	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND).....	1.52	
32 84 13 00-0038			<b>Drip Emitters</b> (32 84 13 00-0001)		
32 84 13 00-0039	EA		0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	5.32	
32 84 13 00-0040	EA		5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24).....	5.84	
32 84 13 00-0041	EA		0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056).....	11.22	
32 84 13 00-0042			<b>Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters</b> (32 84 13 00-0001)		
32 84 13 00-0043	EA		Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK).....	20.87	9.03
32 84 13 00-0044	EA		Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK).....	20.90	9.03
32 84 13 00-0045	EA		12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	22.35	9.03
32 84 13 00-0046	EA		24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	22.50	9.03
32 84 13 00-0047	EA		4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL).....	31.71	11.83
			Note: Includes nozzle.		
32 84 13 00-0048	EA		6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL).....	33.58	11.83
			Note: Includes nozzle.		
32 84 13 00-0049	EA		12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL).....	31.87	11.83
			Note: Includes nozzle.		
32 84 13 00-0050			<b>Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS)</b> (32 84 13 00-0001)		
			Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF		0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield).....	3.86	1.76
32 84 23			<b>Underground Sprinklers</b> (32 84)		
32 84 23 00-0001			<b>Sprinkler Heads</b> (32 84 23)		
32 84 23 00-0002			<b>Spray Sprinkler Heads</b> (32 84 23 00-0001)		
			Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA		2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P).....	28.33	11.08
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0004	EA		4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P).....	27.27	11.08
			For Rotary Nozzle, Add	3.25	



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0005 EA 6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P).....	31.20	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0006 EA 12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P).....	34.48	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0007 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM).....	28.75	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0008 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM).....	34.27	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0009 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM).....	36.93	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0010 EA 4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS).....	30.32	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0011 EA 6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS).....	35.36	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0012 EA 12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS).....	37.84	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0013 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS).....	30.95	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0014 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS).....	38.68	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0015 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS).....	41.12	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0016 EA Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300).....	25.21	11.08
For Rotary Nozzle, Add	3.25	
32 84 23 00-0017 EA Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400).....	27.67	11.08
<b>32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0001)</small>		
Note: Maximum spacing is equivalent to maximum radius.		
<b>32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small>		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC).....	36.09	11.08
For Non-Potable Cover, Add	2.00	
32 84 23 00-0021 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM).....	36.96	11.08
For Non-Potable Cover, Add	2.00	
<b>32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small>		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC).....	33.99	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC).....	43.43	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS).....	35.74	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS).....	44.83	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0027 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR).....	36.44	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR).....	37.84	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR).....	46.92	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030 EA 12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	52.52	11.08
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	37.66	11.08
For Non-Potable Cover, Add	2.00	
32 84 23 00-0032 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	43.25	11.08
For Non-Potable Cover, Add	2.00	
<b>32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small>		
Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0034	EA	4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i> <i>For Stainless Steel Riser And High Speed Rotor, Add</i>	56.54 2.00 9.00 25.73	11.08
<b>32 84 23 00-0035</b>		<b>1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA	5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	76.81 2.00 9.00	11.08
<b>32 84 23 00-0037</b>		<b>Impact-Drive Sprinkler Heads</b> (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA	1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08)..... <i>For Non-Potable Cover, Add</i>	46.75 2.00	11.08
32 84 23 00-0039	EA	1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	38.36	11.08
32 84 23 00-0040	EA	3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB) .....	66.31	11.08
<b>32 84 23 00-0041</b>		<b>Electric Remote Control Irrigation Valves</b> (32 84 23)		
<b>32 84 23 00-0042</b>		<b>0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series)</b> (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA	3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	119.39	46.18
32 84 23 00-0044	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	119.39	46.18
32 84 23 00-0045	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS) .....	132.59	52.64
32 84 23 00-0046	EA	1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA) .....	120.09	46.18
<b>32 84 23 00-0047</b>		<b>0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series)</b> (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF) .....	120.09	46.18
32 84 23 00-0049	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS).....	133.64	52.64
32 84 23 00-0050	EA	1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	134.33	52.64
<b>32 84 23 00-0051</b>		<b>0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA	1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB).....	176.01	46.18
32 84 23 00-0053	EA	1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB).....	200.48	46.18
32 84 23 00-0054	EA	2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB).....	231.93	46.18
<b>32 84 23 00-0055</b>		<b>5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D) .....	241.28	51.90
32 84 23 00-0057	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D) .....	265.75	51.90
32 84 23 00-0058	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D) .....	297.20	51.90
<b>32 84 23 00-0059</b>		<b>20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D) .....	276.23	51.90
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D) .....	300.70	51.90
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D) .....	332.16	51.90
<b>32 84 23 00-0063</b>		<b>0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B).....	245.60	46.18
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B) .....	358.08	46.18
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B).....	368.25	46.18



<b>Exterior Improvements</b>		<b>32</b>
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0067 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B) .....	831.23	62.33
<b>32 84 23 00-0068 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041)</b> Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP) .....	233.69	51.90
32 84 23 00-0070 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP).....	267.14	51.90
32 84 23 00-0071 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP).....	303.46	51.90
32 84 23 00-0072 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP) .....	351.27	51.90
<b>32 84 23 00-0073 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041)</b> Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	296.57	51.90
32 84 23 00-0075 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	430.02	51.90
32 84 23 00-0076 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	441.46	51.90
32 84 23 00-0077 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	877.41	51.90
<b>32 84 23 00-0078 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041)</b> Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079 EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ) .....	296.44	46.18
32 84 23 00-0080 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	408.92	46.18
32 84 23 00-0081 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	419.09	46.18
32 84 23 00-0082 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	882.07	62.33
<b>32 84 23 00-0083 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041)</b> Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	286.12	51.90
32 84 23 00-0085 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	319.57	51.90
32 84 23 00-0086 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D) .....	355.89	51.90
32 84 23 00-0087 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	403.70	51.90
<b>32 84 23 00-0088 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041)</b> Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	347.41	51.90
32 84 23 00-0090 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	480.86	51.90
32 84 23 00-0091 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	492.30	51.90
32 84 23 00-0092 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	928.25	51.90
<b>32 84 23 00-0093 Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)</b>		
32 84 23 00-0094 EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL) .....	89.37	
<b>32 84 23 00-0095 Remote Control Valve Assemblies (32 84 23 00-0041)</b> Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096 EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	404.91	115.45
32 84 23 00-0097 EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	429.38	115.45



**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0098 EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	460.84	115.45
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	439.87	115.45
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	464.33	115.45
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	495.79	115.45
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	449.76	115.45
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	519.52	115.45
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	567.34	115.45
<b>32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)</b> Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND) .....	76.61	33.24
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	84.87	33.24
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	111.44	43.78
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	184.83	63.90
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	187.79	63.90
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	209.03	63.90
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	211.56	63.90
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	332.96	63.90
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	490.20	63.90
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid .....	329.58	110.42
For 12" Extension, Add	66.02	
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid .....	484.04	110.42
For 12" Extension, Add	66.02	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	150.89	55.41
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	210.37	63.90
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10) .....	118.86	43.78
<b>32 84 23 00-0120 Irrigation Controllers (32 84 23)</b> See CSI section 27 15 13 00-0256 for low voltage wiring.		
<b>32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)</b>		
<b>32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)</b>		
<b>32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)</b>		
<b>32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)</b>		
<b>32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)</b>		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	221.86	29.48
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	311.26	29.48
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	400.65	29.48
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	490.04	29.48
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	549.97	29.48
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	643.04	29.48
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	736.12	29.48
<b>32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)</b>		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	248.14	29.48
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	337.54	29.48
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	426.93	29.48
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	516.32	29.48
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	576.25	29.48
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	669.32	29.48
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	762.40	29.48
<b>32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0123)</b>		
<b>32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)</b>		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	313.16	29.48



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	402.56	29.48
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	491.95	29.48
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	581.34	29.48
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	641.27	29.48
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	734.34	29.48
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	827.42	29.48
<b>32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)</b>		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	332.85	29.48
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	422.25	29.48
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	511.64	29.48
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	601.03	29.48
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	660.96	29.48
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	754.03	29.48
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	847.11	29.48
<b>32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)</b>		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	93.07	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	180.68	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	200.08	
<b>32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)</b>		
<b>32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)</b>		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	496.91	29.48
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	607.84	29.48
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	720.04	29.48
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	830.97	29.48
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	943.18	29.48
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,054.11	29.48
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,166.32	29.48
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,277.24	29.48
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,389.45	29.48
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,500.39	29.48
<b>32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)</b>		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	462.46	29.48
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	573.39	29.48
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	685.60	29.48
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	796.52	29.48
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	908.73	29.48
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,019.67	29.48
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,131.86	29.48
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,242.80	29.48
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,355.00	29.48
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,465.93	29.48
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,578.14	29.48
<b>32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)</b>		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	306.32	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM).....	698.68	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	628.18	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	1,387.02	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	110.93	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	223.13	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	342.83	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	119.49	

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0195	<b>Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)</b>	
32 84 23 00-0196	<b>Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)</b>	
32 84 23 00-0197 EA	1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....222.26	29.48
32 84 23 00-0198 EA	2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....274.05	29.48
32 84 23 00-0199 EA	4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....355.94	29.48
32 84 23 00-0200	<b>Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)</b>	
32 84 23 00-0201 EA	Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....223.07	
32 84 23 00-0202 EA	Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....63.61	22.11
32 84 23 00-0203	<b>Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)</b>	
32 84 23 00-0204 EA	Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....109.45	22.11
32 84 23 00-0205 EA	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....206.64	22.11
32 84 23 00-0206 EA	Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....214.29	22.11
32 84 23 00-0207 EA	Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....280.58	22.11
32 84 23 00-0208	<b>Two-Wire Decoder Systems (32 84 23 00-0120)</b>	
32 84 23 00-0209	<b>Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)</b>	
32 84 23 00-0210	<b>Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209)</b>	
	Note: Includes water resistant cabinet.	
32 84 23 00-0211 EA	50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....1,259.32	29.48
32 84 23 00-0212 EA	125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....1,972.69	29.48
32 84 23 00-0213 EA	200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....2,686.07	29.48
32 84 23 00-0214	<b>Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)</b>	
32 84 23 00-0215 EA	One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....166.85	29.48
32 84 23 00-0216 EA	One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....209.62	29.48
32 84 23 00-0217 EA	Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....306.27	29.48
32 84 23 00-0218 EA	Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....360.30	29.48
32 84 23 00-0219 EA	Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....571.91	29.48
32 84 23 00-0220	<b>Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)</b>	
32 84 23 00-0221 EA	50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....966.54	
32 84 23 00-0222 EA	75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75).....713.37	
32 84 23 00-0223 EA	Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....127.77	25.79
32 84 23 00-0224 EA	Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF).....478.41	29.48
32 84 23 00-0225	<b>Calsense Controllers (32 84 23 00-0120)</b>	
32 84 23 00-0226	<b>Irrigation Controllers (32 84 23 00-0225)</b>	
32 84 23 00-0227 EA	6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....1,650.09	73.69
32 84 23 00-0228 EA	8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....2,122.82	82.89
32 84 23 00-0229 EA	12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....2,903.09	92.10
32 84 23 00-0230 EA	16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....3,189.65	92.10
32 84 23 00-0231 EA	24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....3,767.23	101.32
32 84 23 00-0232 EA	32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....4,536.07	101.32
32 84 23 00-0233 EA	40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....5,134.60	110.53
32 84 23 00-0234 EA	48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....5,742.68	110.53
32 84 23 00-0235 EA	Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....1,662.19	36.84
32 84 23 00-0236 EA	Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....709.09	36.84
32 84 23 00-0237	<b>Irrigation Controller Accessories (32 84 23 00-0225)</b>	
32 84 23 00-0238 EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....67.10	
32 84 23 00-0239 EA	Spare Lock For Enclosures (Calsense PAD).....72.69	
32 84 23 00-0240 EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....91.11	9.21
32 84 23 00-0241 EA	Transformer For Irrigation Controllers (Calsense TR-1).....143.58	36.84
32 84 23 00-0242 EA	AC Line Protection For Irrigation Controllers (Calsense TP-110).....360.26	36.84
32 84 23 00-0243 EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....472.09	36.84
	<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	<i>342.97</i>
32 84 23 00-0244	<b>Sensors For Irrigation Controllers (32 84 23 00-0225)</b>	
32 84 23 00-0245	<b>Flow Sensors (32 84 23 00-0244)</b>	



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0246	EA		1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5) ..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	823.45 -454.76	55.26
32 84 23 00-0247	EA		2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	851.41 -482.72	55.26
32 84 23 00-0248	EA		3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	879.36 -510.67	55.26
32 84 23 00-0249	EA		1" Brass Tee Mounted Flow Meter (Calsense FM 1B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	979.11 -610.21	73.69
32 84 23 00-0250	EA		1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,049.00 -680.10	73.69
32 84 23 00-0251	EA		1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,076.96 -708.06	73.69
32 84 23 00-0252	EA		2" Brass Tee Mounted Flow Meter (Calsense FM 2B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,258.68 -761.50	73.69
32 84 23 00-0253	EA		2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)..... Note: For 4" and larger pipe. Excludes pipe saddle. <i>For Flow Meter Replacement Insert Only, Deduct</i>	968.33 -471.14	36.84
<b>32 84 23 00-0254</b>			<b>Moisture Sensors</b> (32 84 23 00-0244)		
32 84 23 00-0255	EA		Soil Moisture Sensor (Calsense 1000-S).....	348.81	27.63
<b>32 84 23 00-0256</b>			<b>Weather Sensors</b> (32 84 23 00-0244)		
32 84 23 00-0257	EA		Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	951.15	73.69
32 84 23 00-0258	EA		Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,126.48	147.37
32 84 23 00-0259	EA		ET Gage, Irrigation Weather Sensor (Calsense ETG).....	2,143.13	110.53
<b>32 84 23 00-0260</b>			<b>Weather Sensor Accessories</b> (32 84 23 00-0244)		
32 84 23 00-0261	EA		Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	632.84	
32 84 23 00-0262	EA		Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	1,178.02	
32 84 23 00-0263	EA		Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	632.84	36.84
32 84 23 00-0264	EA		Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	1,427.73	36.84
<b>32 84 23 00-0265</b>			<b>Antennas For Irrigation Controllers</b> (32 84 23 00-0225) Note: Excludes antenna cable.		
32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME).....	339.29	36.84
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK).....	486.06	36.84
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI).....	559.74	73.69
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	339.29	36.84
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE).....	339.29	36.84
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY).....	339.29	36.84
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK).....	486.06	36.84
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME).....	339.29	36.84
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK).....	486.06	36.84
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI).....	559.74	73.69
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	339.29	36.84
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE).....	339.29	36.84
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	339.29	36.84
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY).....	339.29	36.84
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB).....	8.99	0.44
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT).....	330.39	18.42
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5).....	541.98	36.84
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	454.31	
32 84 23 00-0284	EA		Local Radio Frequency Filter (Calsense LR-FILTER).....	643.02	
32 84 23 00-0285	EA		Spread Spectrum Frequency Filter (Calsense SR-FILTER).....	475.28	
<b>32 84 23 00-0286</b>			<b>Pedestals And Enclosures For Irrigation Controllers</b> (32 84 23 00-0225)		
32 84 23 00-0287	EA		15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	320.21	55.26
32 84 23 00-0288	EA		Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX).....	756.07	92.10
32 84 23 00-0289	EA		Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)..... Note: Includes GFI and receptacle.	807.58	36.84
32 84 23 00-0290	EA		Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)..... Note: Includes factory installed transient protection board and AC line protection.	956.89	27.63
32 84 23 00-0291	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)..... Note: Includes factory installed transient protection board and AC line protection.	2,970.79	27.63
32 84 23 00-0292	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)..... Note: Includes factory installed transient protection board, AC line protection and dome antenna.	3,354.26	27.63
32 84 23 00-0293	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)..... Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.	4,874.12	55.26
32 84 23 00-0294	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)..... Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.	5,107.63	55.26
32 84 23 00-0295	EA		Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM).....	170.92	
32 84 23 00-0296	EA		Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED).....	551.51	
<b>32 84 23 00-0297</b>			<b>Central Computer For Irrigation Control Systems</b> (32 84 23 00-0225)		



**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2) ..... Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.	3,746.30	
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1) .....	6,618.31	
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5)..... Note: Package price for up to 5 users. Includes remote communication through internet connection.	1,275.87	
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10) ..... Note: Package price for 6 to 10 users. Includes remote communication through internet connection.	2,500.17	
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2).....	4,021.44	
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G).....	2,401.81	
<b>32 84 23 00-0304 Data Access Service</b> (32 84 23 00-0225)		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN) ..... Note: For communication between GPRS unit and up to 2 controllers.	20.33	
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR) ..... Note: For communication between GPRS unit and up to 2 controllers.	222.39	
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR) ..... Note: For communication between GPRS unit and up to 2 controllers.	953.10	
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M) ..... Note: For communication between GPRS unit and multiple controllers.	82.60	
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M) ..... Note: For communication between GPRS unit and multiple controllers.	889.56	
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M) ..... Note: For communication between GPRS unit and multiple controllers.	3,812.40	
<b>32 84 23 00-0311 Communication Options For Irrigation Controllers</b> (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense).....	144.86	
32 84 23 00-0313 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense) ..... Note: Per frequency or frequency pair.	271.94	
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M) ..... Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.	737.06	
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R) .....	775.19	
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN) .....	775.19	
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN) .....	1,588.50	
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR) .....	2,020.57	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	2,020.57	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....	2,020.57	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM).....	6,481.08	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB) ..... Note: Accepts up to two communication options. Excludes communication options.	2,505.37	
<b>32 84 23 00-0323 Retrofit Options For Irrigation Controllers</b> (32 84 23 00-0225)		
<b>32 84 23 00-0324 Weather Retrofits For Irrigation Controllers</b> (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO).....	1,007.73	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO).....	1,007.73	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO).....	1,007.73	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO).....	1,007.73	
<b>32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO).....	1,058.56	
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO) .....	1,249.18	
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO) .....	1,992.60	
<b>32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO).....	1,185.64	
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO) .....	2,481.86	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO) .....	3,218.92	
<b>32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro) .....	1,185.64	
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO).....	2,481.86	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO).....	3,218.92	
<b>32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro) .....	1,185.64	





		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO) .....	1,249.18	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO).....	1,992.60	
<b>32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers</b> <small>(32 84 23 00-0323)</small>		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	1,185.64	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO) .....	2,481.86	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO) .....	3,218.92	
<b>32 84 23 00-0349 Radio Remote Units For Irrigation Controllers</b> <small>(32 84 23 00-0225)</small>		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRE-TRAN) .....	1,191.99	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRE)..... Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.	251.62	
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG) .....	108.02	
32 84 23 00-0353 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	196.33	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT) .....	126.44	9.21
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRE-WHIP)..... Note: Excludes antenna cable.	240.81	9.21
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRE-Dome) .....	259.87	9.21
32 84 23 00-0357 <b>Satellite Irrigation Controllers (Rain Bird® ESP-SAT)</b> <small>(32 84 23 00-0120)</small>		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	2,836.41	165.79
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	2,991.33	175.01
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS).....	4,126.07	184.21
32 84 23 00-0361 <b>LEIT Controllers</b> <small>(32 84 23 00-0120)</small>		
32 84 23 00-0362 <b>LEIT X Series Irrigation Controller</b> <small>(32 84 23 00-0361)</small>		
32 84 23 00-0363 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	2,648.33	29.48
32 84 23 00-0364 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	2,903.59	29.48
32 84 23 00-0365 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	3,330.68	29.48
32 84 23 00-0366 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	3,757.77	29.48
32 84 23 00-0367 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	4,064.61	29.48
32 84 23 00-0368 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	4,371.45	29.48
32 84 23 00-0369 <b>LEIT X Series Irrigation Controller Assembly</b> <small>(32 84 23 00-0361)</small>		
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	3,070.78	153.51
32 84 23 00-0371 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	3,326.03	153.51
32 84 23 00-0372 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	3,753.13	153.51
32 84 23 00-0373 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	4,180.21	153.51
32 84 23 00-0374 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	4,487.05	153.51
32 84 23 00-0375 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	4,793.88	153.51
32 84 23 00-0376 <b>Enclosure For LEIT Controller Assembly</b> <small>(32 84 23 00-0361)</small>		
Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377 EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch.....	2,050.63	194.65
Note: For LEIT Controller		
32 84 23 00-0378 <b>Hunter Controllers</b> <small>(32 84 23 00-0120)</small>		
32 84 23 00-0379 <b>Hunter XC Hybrid Controller</b> <small>(32 84 23 00-0378)</small>		
Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380 EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS).....	466.00	73.69
32 84 23 00-0381 EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS).....	592.09	92.10
32 84 23 00-0382 <b>DC Latching Solenoid</b> <small>(32 84 23 00-0120)</small>		
32 84 23 00-0383 EA DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers.....	28.78	
Note: As per manufacture of valve.		
32 84 23 00-0384 EA DC Solenoid For LEIT Controllers (DIG S-305DC) .....	42.32	
32 84 23 00-0385 <b>Irrigation Controller Enclosure Cabinet</b> <small>(32 84 23 00-0120)</small>		
Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0386 EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,127.82	404.87
32 84 23 00-0387 EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,300.93	441.67
32 84 23 00-0388 EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,543.31	478.48
32 84 23 00-0389 EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet.....	2,127.84	404.87
32 84 23 00-0390 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	2,300.93	441.67
32 84 23 00-0391 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	2,543.31	478.48
32 84 23 00-0392 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	2,588.16	404.87
32 84 23 00-0393 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	2,818.79	441.67
32 84 23 00-0394 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	3,061.17	478.48
<b>32 84 23 00-0395 Irrigation Valves (32 84 23)</b>		
<b>32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395)</b>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	549.61	38.11
32 84 23 00-0398 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	652.89	46.53
32 84 23 00-0399 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	977.07	54.16
32 84 23 00-0400 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,035.72	62.18
32 84 23 00-0401 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,246.36	80.23
<b>32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)</b>		
32 84 23 00-0403 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	118.62	33.24
<i>For Valve Key, Add</i>		
	25.69	
32 84 23 00-0404 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	121.59	33.24
<i>For Locking Cover, Add</i>		
	25.00	
<i>For Valve Key, Add</i>		
	25.69	
32 84 23 00-0405 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	154.27	33.24
<i>For Valve Key, Add</i>		
	65.71	
32 84 23 00-0406 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	166.15	33.24
<i>For Valve Key, Add</i>		
	65.71	
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	160.56	33.24
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	166.15	33.24
<b>32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395)</b>		
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	204.38	28.08
32 84 23 00-0411 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	289.19	32.10
32 84 23 00-0412 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	515.68	37.11
32 84 23 00-0413 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	627.33	41.11
32 84 23 00-0414 EA 2" Anti-Siphon Pressure Type Vacuum Breaker.....	636.13	50.14
<b>32 84 23 00-0415 Aluminum Cam And Groove Adapter (32 84 23 00-0395)</b>		
32 84 23 00-0416 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	33.74	
32 84 23 00-0417 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	35.58	
32 84 23 00-0418 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	34.47	
32 84 23 00-0419 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread.....	36.94	
<b>32 84 23 00-0420 Irrigation Piping (32 84 23)</b>		
<b>32 84 23 00-0421 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420)</b>		
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
<b>32 84 23 00-0422 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)</b>		
32 84 23 00-0423 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.56	0.93
<i>For &gt;1,000, Deduct</i>		
	-0.13	
32 84 23 00-0424 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.15	1.16
<i>For &gt;1,000, Deduct</i>		
	-0.16	
32 84 23 00-0425 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.82	1.39
<i>For &gt;1,000, Deduct</i>		
	-0.19	
32 84 23 00-0426 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.07	1.75
<i>For &gt;1,000, Deduct</i>		
	-0.25	
32 84 23 00-0427 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.37	2.20
<i>For &gt;1,000, Deduct</i>		
	-0.32	
32 84 23 00-0428 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	8.09	2.57
<i>For &gt;1,000, Deduct</i>		
	-0.40	
32 84 23 00-0429 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.14	3.69
<i>For &gt;1,000, Deduct</i>		
	-0.56	
32 84 23 00-0430 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	14.54	4.62
<i>For &gt;1,000, Deduct</i>		
	-0.73	
32 84 23 00-0431 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	20.61	5.77
<i>For &gt;1,000, Deduct</i>		
	-1.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 84 23 00-0432 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers</b> <small>(32 84 23 00-0421)</small>		
32 84 23 00-0433 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers .....2.98	2.98	1.16
<i>For &gt;1,000, Deduct</i>	-0.15	
32 84 23 00-0434 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers .....3.54	3.54	1.39
<i>For &gt;1,000, Deduct</i>	-0.18	
32 84 23 00-0435 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers .....4.87	4.87	1.75
<i>For &gt;1,000, Deduct</i>	-0.24	
32 84 23 00-0436 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers .....6.20	6.20	2.20
<i>For &gt;1,000, Deduct</i>	-0.31	
32 84 23 00-0437 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers .....7.84	7.84	2.57
<i>For &gt;1,000, Deduct</i>	-0.39	
32 84 23 00-0438 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....11.05	11.05	3.69
<i>For &gt;1,000, Deduct</i>	-0.55	
32 84 23 00-0439 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....15.06	15.06	4.62
<i>For &gt;1,000, Deduct</i>	-0.75	
32 84 23 00-0440 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....23.95	23.95	5.77
<i>For &gt;1,000, Deduct</i>	-1.20	
<b>32 84 23 00-0441 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers</b> <small>(32 84 23 00-0421)</small>		
32 84 23 00-0442 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....3.12	3.12	1.16
<i>For &gt;1,000, Deduct</i>	-0.16	
32 84 23 00-0443 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....3.73	3.73	1.39
<i>For &gt;1,000, Deduct</i>	-0.19	
32 84 23 00-0444 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....5.24	5.24	1.75
<i>For &gt;1,000, Deduct</i>	-0.26	
32 84 23 00-0445 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....6.81	6.81	2.20
<i>For &gt;1,000, Deduct</i>	-0.34	
32 84 23 00-0446 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....8.82	8.82	2.57
<i>For &gt;1,000, Deduct</i>	-0.44	
32 84 23 00-0447 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....11.14	11.14	3.69
<i>For &gt;1,000, Deduct</i>	-0.56	
32 84 23 00-0448 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....14.54	14.54	4.62
<i>For &gt;1,000, Deduct</i>	-0.73	
32 84 23 00-0449 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....20.94	20.94	5.77
<i>For &gt;1,000, Deduct</i>	-1.05	
<b>32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0420)</small>		
<small>Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.</small>		
<b>32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0450)</small>		
32 84 23 00-0452 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....4.82	4.82	1.16
<i>For &gt;1,000, Deduct</i>	-0.24	
32 84 23 00-0453 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....5.48	5.48	1.39
<i>For &gt;1,000, Deduct</i>	-0.27	
32 84 23 00-0454 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....6.73	6.73	1.75
<i>For &gt;1,000, Deduct</i>	-0.34	
32 84 23 00-0455 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....8.03	8.03	2.20
<i>For &gt;1,000, Deduct</i>	-0.40	
32 84 23 00-0456 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....9.76	9.76	2.57
<i>For &gt;1,000, Deduct</i>	-0.49	
32 84 23 00-0457 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....12.82	12.82	3.69
<i>For &gt;1,000, Deduct</i>	-0.64	
32 84 23 00-0458 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....16.21	16.21	4.62
<i>For &gt;1,000, Deduct</i>	-0.81	
32 84 23 00-0459 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....22.27	22.27	5.77
<i>For &gt;1,000, Deduct</i>	-1.11	
<b>32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0450)</small>		
32 84 23 00-0461 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....5.01	5.01	1.16
<i>For &gt;1,000, Deduct</i>	-0.25	
32 84 23 00-0462 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....5.67	5.67	1.39
<i>For &gt;1,000, Deduct</i>	-0.28	
32 84 23 00-0463 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....6.92	6.92	1.75
<i>For &gt;1,000, Deduct</i>	-0.35	
32 84 23 00-0464 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....8.22	8.22	2.20
<i>For &gt;1,000, Deduct</i>	-0.41	
32 84 23 00-0465 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....9.95	9.95	2.57
<i>For &gt;1,000, Deduct</i>	-0.50	
32 84 23 00-0466 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....13.01	13.01	3.69
<i>For &gt;1,000, Deduct</i>	-0.65	
32 84 23 00-0467 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....16.39	16.39	4.62
<i>For &gt;1,000, Deduct</i>	-0.82	
32 84 23 00-0468 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....22.47	22.47	5.77
<i>For &gt;1,000, Deduct</i>	-1.12	

**32 Exterior Improvements**

**32 80 Irrigation**

**32 84 Planting Irrigation**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>			
32 84 23 00-0470	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.20	1.16
	<i>For &gt;1,000, Deduct</i>	-0.26	
32 84 23 00-0471	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.86	1.39
	<i>For &gt;1,000, Deduct</i>	-0.29	
32 84 23 00-0472	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	7.12	1.75
	<i>For &gt;1,000, Deduct</i>	-0.36	
32 84 23 00-0473	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.41	2.20
	<i>For &gt;1,000, Deduct</i>	-0.42	
32 84 23 00-0474	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	10.15	2.57
	<i>For &gt;1,000, Deduct</i>	-0.51	
32 84 23 00-0475	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	13.20	3.69
	<i>For &gt;1,000, Deduct</i>	-0.66	
32 84 23 00-0476	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	16.59	4.62
	<i>For &gt;1,000, Deduct</i>	-0.83	
32 84 23 00-0477	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	22.66	5.77
	<i>For &gt;1,000, Deduct</i>	-1.13	
<b>32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>			
32 84 23 00-0479	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	4.73	1.16
	<i>For &gt;1,000, Deduct</i>	-0.24	
32 84 23 00-0480	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	5.34	1.39
	<i>For &gt;1,000, Deduct</i>	-0.27	
32 84 23 00-0481	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	6.74	1.75
	<i>For &gt;1,000, Deduct</i>	-0.34	
32 84 23 00-0482	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	8.33	2.20
	<i>For &gt;1,000, Deduct</i>	-0.42	
32 84 23 00-0483	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	10.24	2.57
	<i>For &gt;1,000, Deduct</i>	-0.51	
32 84 23 00-0484	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	12.72	3.69
	<i>For &gt;1,000, Deduct</i>	-0.64	
32 84 23 00-0485	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	16.74	4.62
	<i>For &gt;1,000, Deduct</i>	-0.84	
32 84 23 00-0486	LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	25.60	5.77
	<i>For &gt;1,000, Deduct</i>	-1.28	
<b>32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>			
32 84 23 00-0488	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	4.92	1.16
	<i>For &gt;1,000, Deduct</i>	-0.25	
32 84 23 00-0489	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	5.53	1.39
	<i>For &gt;1,000, Deduct</i>	-0.28	
32 84 23 00-0490	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	6.93	1.75
	<i>For &gt;1,000, Deduct</i>	-0.35	
32 84 23 00-0491	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	8.52	2.20
	<i>For &gt;1,000, Deduct</i>	-0.43	
32 84 23 00-0492	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	10.43	2.57
	<i>For &gt;1,000, Deduct</i>	-0.52	
32 84 23 00-0493	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	12.91	3.69
	<i>For &gt;1,000, Deduct</i>	-0.65	
32 84 23 00-0494	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	16.92	4.62
	<i>For &gt;1,000, Deduct</i>	-0.85	
32 84 23 00-0495	LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	25.80	5.77
	<i>For &gt;1,000, Deduct</i>	-1.29	
<b>32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>			
32 84 23 00-0497	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	5.11	1.16
	<i>For &gt;1,000, Deduct</i>	-0.26	
32 84 23 00-0498	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	5.72	1.39
	<i>For &gt;1,000, Deduct</i>	-0.29	
32 84 23 00-0499	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.13	1.75
	<i>For &gt;1,000, Deduct</i>	-0.36	
32 84 23 00-0500	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.71	2.20
	<i>For &gt;1,000, Deduct</i>	-0.44	
32 84 23 00-0501	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	10.63	2.57
	<i>For &gt;1,000, Deduct</i>	-0.53	





		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0502	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	13.10 -0.66	3.69
32 84 23 00-0503	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	17.12 -0.86	4.62
32 84 23 00-0504	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	25.99 -1.30	5.77
<b>32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>					
32 84 23 00-0506	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	4.79 -0.24	1.16
32 84 23 00-0507	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	5.39 -0.27	1.39
32 84 23 00-0508	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	6.90 -0.35	1.75
32 84 23 00-0509	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.48 -0.42	2.20
32 84 23 00-0510	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	10.48 -0.52	2.57
32 84 23 00-0511	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	12.82 -0.64	3.69
32 84 23 00-0512	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	16.21 -0.81	4.62
32 84 23 00-0513	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	22.59 -1.13	5.77
<b>32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>					
32 84 23 00-0515	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	4.98 -0.25	1.16
32 84 23 00-0516	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	5.58 -0.28	1.39
32 84 23 00-0517	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.09 -0.35	1.75
32 84 23 00-0518	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.67 -0.43	2.20
32 84 23 00-0519	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	10.67 -0.53	2.57
32 84 23 00-0520	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	13.01 -0.65	3.69
32 84 23 00-0521	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	16.39 -0.82	4.62
32 84 23 00-0522	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	22.79 -1.14	5.77
<b>32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)</b>					
32 84 23 00-0524	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	5.17 -0.26	1.16
32 84 23 00-0525	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	5.77 -0.29	1.39
32 84 23 00-0526	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.29 -0.36	1.75
32 84 23 00-0527	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.86 -0.44	2.20
32 84 23 00-0528	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	10.87 -0.54	2.57
32 84 23 00-0529	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	13.20 -0.66	3.69
32 84 23 00-0530	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	16.59 -0.83	4.62
32 84 23 00-0531	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	22.98 -1.15	5.77
<b>32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)</b>					
32 84 23 00-0533	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	13.08	2.77



**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0534 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	14.25	3.46
32 84 23 00-0535 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	14.16	3.23
32 84 23 00-0536 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	15.63	4.04
32 84 23 00-0537 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	27.48	4.85
32 84 23 00-0538 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	29.55	6.07
32 84 23 00-0539 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	32.40	6.24
32 84 23 00-0540 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	35.06	7.80
32 84 23 00-0541 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	37.33	7.61
32 84 23 00-0542 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	40.56	9.53
<b>32 84 23 00-0543 Irrigation Crossover Piping With Fittings</b> (32 84 23 00-0420) Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		
<b>32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench</b> (32 84 23 00-0543)		
32 84 23 00-0545 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... For >1,000, Deduct	27.76 -1.39	
32 84 23 00-0546 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... For >1,000, Deduct	38.99 -1.95	
32 84 23 00-0547 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... For >1,000, Deduct	53.39 -2.67	
32 84 23 00-0548 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... For >1,000, Deduct	70.30 -3.52	
<b>32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench</b> (32 84 23 00-0543)		
32 84 23 00-0550 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	28.33 -1.42	
32 84 23 00-0551 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	39.64 -1.98	
32 84 23 00-0552 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	54.10 -2.71	
32 84 23 00-0553 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	71.07 -3.55	
<b>32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench</b> (32 84 23 00-0543)		
32 84 23 00-0555 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation ..... For >1,000, Deduct	28.91 -1.45	
32 84 23 00-0556 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	40.28 -2.01	
32 84 23 00-0557 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	54.80 -2.74	
32 84 23 00-0558 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation ..... For >1,000, Deduct	71.83 -3.59	
<b>32 84 23 00-0559 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore</b> (32 84 23 00-0543)		
32 84 23 00-0560 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation ..... For >1,000, Deduct	73.35 -3.67	
32 84 23 00-0561 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation ..... For >1,000, Deduct	93.81 -4.69	
32 84 23 00-0562 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation ..... For >1,000, Deduct	112.75 -5.64	
32 84 23 00-0563 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation ..... For >1,000, Deduct	134.21 -6.71	
<b>32 84 23 00-0564 Below Ground Cam Adapter Assembly</b> (32 84 23 00-0420) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565 EA Below Ground Cam Adapter Assembly ..... Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	567.11	



<b>Exterior Improvements</b>		<b>32</b>
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 84 23 00-0566</b> Above Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small> Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567 EA Above Ground Cam Adapter Assembly .....	361.33	
<b>32 84 23 00-0568</b> Thrust Block <small>(32 84 23 00-0420)</small>		
32 84 23 00-0569 EA Thrust Block For 1-1/2" Pipe Size And Smaller.....	32.21	
32 84 23 00-0570 EA Thrust Block For 2" Pipe .....	55.67	
32 84 23 00-0571 EA Thrust Block For 3" And 4" Pipe.....	79.15	
32 84 23 00-0572 EA Thrust Block For 6" Pipe .....	126.48	
32 84 23 00-0573 EA Thrust Block For 8" Pipe .....	180.62	
<b>32 84 23 00-0574</b> Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0575 EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075) .....	45.05	18.38
32 84 23 00-0576 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12) .....	51.05	20.52
32 84 23 00-0577 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	65.03	20.52
32 84 23 00-0578 EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	37.79	23.96
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0579 EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	50.46	31.96
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0580 EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	62.89	39.19
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0581 EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II .....	54.11	24.32
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0582 EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II .....	71.51	32.28
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0583 EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II .....	87.56	39.58
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0584 EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III .....	30.56	14.90
Note: Consists of two street 90 degree elbows.		
32 84 23 00-0585 EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III .....	40.81	19.87
Note: Consists of two street 90 degree elbows.		
32 84 23 00-0586 EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III .....	48.06	24.63
Note: Consists of two street 90 degree elbows.		
<b>32 84 23 00-0587</b> Irrigation Control Wire <small>(32 84 23)</small> Note: Excludes excavation and backfill.		
<b>32 84 23 00-0588</b> 18 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0589 CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	39.47	13.85
32 84 23 00-0590 CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	50.62	16.16
32 84 23 00-0591 CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	58.18	18.47
32 84 23 00-0592 CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	66.40	20.78
32 84 23 00-0593 CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	75.26	23.09
32 84 23 00-0594 CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	88.72	25.40
32 84 23 00-0595 CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	101.65	27.70
32 84 23 00-0596 CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	110.41	30.02
32 84 23 00-0597 CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	120.87	32.32
32 84 23 00-0598 CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	132.69	34.63
32 84 23 00-0599 CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	137.95	36.94
32 84 23 00-0600 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	143.87	39.25
32 84 23 00-0601 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	151.88	41.56
<b>32 84 23 00-0602</b> 16 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0603 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench.....	41.20	13.85
<b>32 84 23 00-0604</b> 14 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0605 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench.....	41.21	13.85
<b>32 84 23 00-0606</b> 12 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0607 CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench.....	52.70	13.85
<b>32 84 23 00-0608</b> 10 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0609 CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench.....	67.27	13.85
<b>32 84 23 00-0610</b> Root Watering Systems <small>(32 84 23)</small> Note: Includes swing assembly.		

**32 Exterior Improvements**

**32 80 Irrigation**

**32 84 Planting Irrigation**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0611 EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	70.29	18.47
<i>For Root Watering Sand Sock, Add</i>	4.25	
32 84 23 00-0612 EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401).....	74.92	18.47
<i>For Root Watering Sand Sock, Add</i>	4.25	
32 84 23 00-0613 EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	70.29	18.47
<i>For Root Watering Sand Sock, Add</i>	4.25	
32 84 23 00-0614 EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402).....	74.92	18.47
<i>For Root Watering Sand Sock, Add</i>	4.25	
32 84 23 00-0615 EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404).....	74.92	18.47
<i>For Root Watering Sand Sock, Add</i>	4.25	
32 84 23 00-0616 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401).....	61.09	16.16
<i>For Root Watering Sand Sock, Add</i>	3.79	
32 84 23 00-0617 EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401).....	65.52	16.16
<i>For Root Watering Sand Sock, Add</i>	3.79	
32 84 23 00-0618 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402).....	61.09	16.16
<i>For Root Watering Sand Sock, Add</i>	3.79	
32 84 23 00-0619 EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402).....	65.52	16.16
<i>For Root Watering Sand Sock, Add</i>	3.79	
32 84 23 00-0620 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401).....	43.00	13.85
<i>For Root Watering Sand Sock, Add</i>	3.33	
32 84 23 00-0621 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	47.23	13.85
<i>For Root Watering Sand Sock, Add</i>	3.33	

**32 90 Planting** <sup>(32)</sup>

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

**32 91 Planting Preparation** <sup>(32 90)</sup>

**32 91 13 Soil Preparation** <sup>(32 91)</sup>

**32 91 13 16 Mulching** <sup>(32 91 13)</sup>

**32 91 13 16-0001 Mulch** <sup>(32 91 13 16)</sup>

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 91 13 16-0002 CY Pine Bark Nugget Mulch .....	101.05	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-7.95	
<i>For &gt;20 To 50, Deduct</i>	-11.92	
<i>For &gt;50, Deduct</i>	-16.97	
32 91 13 16-0003 CY Hardwood Bark Nugget Mulch .....	99.33	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-7.86	
<i>For &gt;20 To 50, Deduct</i>	-11.79	
<i>For &gt;50, Deduct</i>	-16.76	
32 91 13 16-0004 CY Pine Wood Chip Mulch.....	95.88	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-7.69	
<i>For &gt;20 To 50, Deduct</i>	-11.53	
<i>For &gt;50, Deduct</i>	-16.33	
32 91 13 16-0005 CY Hardwood Chip Mulch.....	102.78	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-8.03	
<i>For &gt;20 To 50, Deduct</i>	-12.05	
<i>For &gt;50, Deduct</i>	-17.19	
32 91 13 16-0006 CY Shredded Hardwood Mulch.....	102.78	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-8.03	
<i>For &gt;20 To 50, Deduct</i>	-12.05	
<i>For &gt;50, Deduct</i>	-17.19	
32 91 13 16-0007 CY Shredded Pine Mulch.....	87.25	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-7.26	
<i>For &gt;20 To 50, Deduct</i>	-10.89	
<i>For &gt;50, Deduct</i>	-15.25	
32 91 13 16-0008 CY Shredded Cedar Mulch .....	120.90	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-8.94	
<i>For &gt;20 To 50, Deduct</i>	-13.41	
<i>For &gt;50, Deduct</i>	-19.46	
32 91 13 16-0009 CY Shredded Cypress Mulch.....	118.31	
<i>For Work On Slopes &gt;2.5:1, Add</i>	11.58	
<i>For &gt;5 To 20, Deduct</i>	-8.81	
<i>For &gt;20 To 50, Deduct</i>	-13.22	
<i>For &gt;50, Deduct</i>	-19.13	



<b>Exterior Improvements</b>		<b>32</b>
Planting		32 90
Planting Preparation		32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0010 CY Shredded Redwood Mulch.....	125.21	
For Work On Slopes >2.5:1, Add	11.58	
For >5 To 20, Deduct	-9.16	
For >20 To 50, Deduct	-13.73	
For >50, Deduct	-19.99	
32 91 13 16-0011 CY Pea Gravel Mulch.....	89.06	
For Work On Slopes >2.5:1, Add	11.58	
For >5 To 20, Deduct	-7.35	
For >20 To 50, Deduct	-11.02	
For >50, Deduct	-15.48	
32 91 13 16-0012 CY Chunk Recycled Tire Mulch.....	194.93	
For Work On Slopes >2.5:1, Add	14.83	
For >5 To 20, Deduct	-13.45	
For >20 To 50, Deduct	-20.18	
For >50, Deduct	-29.93	
32 91 13 16-0013 CY Chunk Colored Recycled Tire Mulch.....	314.00	
For Work On Slopes >2.5:1, Add	14.83	
For >5 To 20, Deduct	-19.41	
For >20 To 50, Deduct	-29.11	
For >50, Deduct	-44.81	
32 91 13 16-0014 CY Shredded Recycled Tire Mulch.....	315.73	
For Work On Slopes >2.5:1, Add	14.83	
For >5 To 20, Deduct	-19.49	
For >20 To 50, Deduct	-29.24	
For >50, Deduct	-45.03	
32 91 13 16-0015 CY Shredded Colored Recycled Tire Mulch.....	553.87	
For Work On Slopes >2.5:1, Add	14.83	
For >5 To 20, Deduct	-31.40	
For >20 To 50, Deduct	-47.10	
For >50, Deduct	-74.79	
32 91 13 16-0016 EA Pine Straw Mulch Bale.....	9.26	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.65	
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.09	
32 91 13 16-0017 EA Wheat Straw Mulch Bale.....	9.52	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.49	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.07	
32 91 13 16-0018 CY Stone/Gravel Mulch, Marble Chips.....	213.42	
For Work On Slopes >2.5:1, Add	11.58	
For >5 To 20, Deduct	-13.57	
For >20 To 50, Deduct	-20.35	
For >50, Deduct	-31.02	
32 91 13 16-0019 CY Stone Mulch, Decomposed Granite Chips.....	117.37	
For Work On Slopes >2.5:1, Add	11.58	
For >5 To 20, Deduct	-8.76	
For >20 To 50, Deduct	-13.15	
For >50, Deduct	-19.01	
<b>32 91 13 16-0020 Compost Soil Amendment (AgriService) <small>(32 91 13 16)</small></b>		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM).....	69.63	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	11.58	
For >100 To 1,000, Deduct	-12.17	
For >1,000, Deduct	-18.55	
<b>32 91 13 26 Planting Beds <small>(32 91 13)</small></b>		
Note: Not for use when installing trees and shrubs.		
<b>32 91 13 26-0001 Plant Bed Preparation <small>(32 91 13 26)</small></b>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Prepare And Mix Plant Bed, Up To 8" Deep By Machine.....	0.92	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.18	
32 91 13 26-0003 SF Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	1.06	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.21	
32 91 13 26-0004 SF Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.25	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.25	
32 91 13 26-0005 SF Prepare And Mix Plant Bed By Hand, Up To 8" Deep.....	4.26	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.85	

**32 Exterior Improvements****32 90 Planting****32 91 Planting Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0006	SF	Prepare And Mix Plant Bed By Hand, 9" To 13" Deep ..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	4.89	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	0.98	
32 91 13 26-0007	SF	Prepare And Mix Plant Bed By Hand, 14" To 18" Deep ..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	5.76	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	1.15	
<b>32 91 13 26-0008</b>		<b>Plant Bed Preparation With Humic Compost <small>(32 91 13 26)</small></b>		
32 91 13 26-0009	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF) ..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	1.03	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	0.20	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.15	
		<i>For &gt;5,000 To 10,000, Deduct</i>	-0.25	
		<i>For &gt;10,000 To 20,000, Deduct</i>	-0.50	
		<i>For &gt;20,000, Deduct</i>	-0.70	
32 91 13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF) ..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	1.25	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	0.24	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.18	
		<i>For &gt;5,000 To 10,000, Deduct</i>	-0.30	
		<i>For &gt;10,000 To 20,000, Deduct</i>	-0.59	
		<i>For &gt;20,000, Deduct</i>	-0.83	
32 91 13 26-0011	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF) ..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	1.48	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	0.27	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.21	
		<i>For &gt;5,000 To 10,000, Deduct</i>	-0.34	
		<i>For &gt;10,000 To 20,000, Deduct</i>	-0.69	
		<i>For &gt;20,000, Deduct</i>	-0.97	
<b>32 91 13 26-0012</b>		<b>Planting Pit Preparation <small>(32 91 13 26)</small></b> Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY	Excavate Planting Pit By Hand, Sandy Soil ..... Note: For use with existing planting pits.	73.69	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	14.74	
32 91 13 26-0014	CY	Excavate Planting Pit By Hand, Heavy Soil ..... Note: For use with existing planting pits.	147.37	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	29.47	
32 91 13 26-0015	CY	Excavate Planting Pit By Machine, Sandy Soil ..... Note: For use with existing planting pits.	11.27	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	2.25	
32 91 13 26-0016	CY	Excavate Planting Pit By Machine, Heavy Soil ..... Note: For use with existing planting pits.	14.67	
		<i>For Work On Slopes &gt;2.5:1, Add</i>	2.93	
32 91 13 26-0017	CY	Backfill Planting Pit By Hand With Topsoil From Stockpile ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	65.48 13.10	
32 91 13 26-0018	CY	Backfill Planting Pit By Hand With Contractor Furnished Planting Mix ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	126.43 11.68	
32 91 13 26-0019	CY	Backfill Planting Pit By Machine, With Topsoil From Stockpile ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	6.22 1.24	
32 91 13 26-0020	CY	Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	82.46 2.89	
<b>32 91 13 26-0021</b>		<b>Weed Barrier <small>(32 91 13 26)</small></b>		
32 91 13 26-0022	SY	Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	1.55 0.12	
32 91 13 26-0023	SY	4 Oz/SY Woven, Polypropylene Weed Barrier ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	2.04 0.12	
32 91 13 26-0024	SY	5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier ..... <i>For Work On Slopes &gt;2.5:1, Add</i>	2.25 0.12	
<b>32 91 13 33</b>		<b>Soil Conditioners <small>(32 91 13)</small></b>		
<b>32 91 13 33-0001</b>		<b>Spread Soil Conditioners <small>(32 91 13 33)</small></b>		
32 91 13 33-0002	SY	Aluminum Sulfate 1 LB/SY, Push Spreader ..... 32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader .....	0.34 32.36	
32 91 13 33-0004	MSF	Fertilizer, 20 LB/MSF, Push Spreader.....	6.01	
32 91 13 33-0005	MSF	Fertilizer, 20 LB/MSF, Tractor Spread.....	2.43	
32 91 13 33-0006	MSF	Fertilizer, 20 LB/MSF, Truck Spread.....	4.13	
32 91 13 33-0007	SY	Pelletized Lime, 1 LB/SY, Push Spreader.....	0.08	
32 91 13 33-0008	MSF	Pelletized Lime, 110 LB/MSF, Tractor Spreader.....	6.16	
32 91 13 33-0009	SY	Perlite, 1" Deep, Push Spreader.....	2.94	
32 91 13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader.....	305.75	
32 91 13 33-0011	SY	Vermiculite, Push Spreader.....	2.73	
32 91 13 33-0012	MSF	Vermiculite, Tractor Spreader.....	298.67	





		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader .....	.014	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader .....	12.03	
<b>32 91 13 36 Lawn Bed Preparation (32 91 13)</b>		
<b>32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)</b>		
32 91 13 36-0002 MSF Rake Topsoil With Machine .....	70.84	
32 91 13 36-0003 MSF Rake Topsoil By Hand .....	58.94	
32 91 13 36-0004 MSF Screen Loam By Hand .....	39.30	
32 91 13 36-0005 SY Roll Topsoil With Machine .....	0.91	
32 91 13 36-0006 SY Roll Topsoil By Hand .....	2.63	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine .....	8.38	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand .....	26.21	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders .....	43.84	
For >45 to 225, Deduct	-30.69	
For >225, Deduct	-39.46	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders .....	73.06	
For >45 to 225, Deduct	-51.14	
For >225, Deduct	-65.75	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor .....	3.90	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor .....	7.92	
For Work On Slopes >2.5:1, Add	1.58	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller .....	0.62	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller .....	0.75	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller .....	0.94	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds .....	1.04	
<b>32 91 13 36-0017 Sod Removal (32 91 13 36)</b>		
32 91 13 36-0018 SY Removal Of Sod By Hand .....	4.97	
For Work On Slopes >2.5:1, Add	0.99	
32 91 13 36-0019 SY Removal Of Sod With Machine .....	0.53	
For Work On Slopes >2.5:1, Add	0.11	
32 91 13 36-0020 SY Pile Sod By Hand .....	2.95	
For Work On Slopes >2.5:1, Add	0.59	
32 91 13 36-0021 SY Pile Sod With Machine .....	0.99	
For Work On Slopes >2.5:1, Add	0.20	
<b>32 91 19 Landscape Grading (32 91)</b>		
<b>32 91 19 13 Topsoil Placement And Grading (32 91 19)</b>		
<b>32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)</b>		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site .....	3.89	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site .....	3.86	
<b>32 91 19 13-0004 Screening Topsoil (32 91 19 13)</b>		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic) .....	8.55	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material .....	5.70	
<b>32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)</b>		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile .....	6.67	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile .....	56.24	
<b>32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)</b>		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep .....	4.31	
For Unscreened, Deduct	-0.71	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep .....	8.37	
For Unscreened, Deduct	-1.43	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep .....	12.22	
For Unscreened, Deduct	-2.14	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep .....	17.85	
For Unscreened, Deduct	-3.21	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep .....	23.48	
For Unscreened, Deduct	-4.28	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep .....	66.62	
For Unscreened, Deduct	-12.83	
<b>32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)</b>		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine .....	52.75	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine .....	36.92	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine .....	21.59	

**32 Exterior Improvements****32 90 Planting****32 91 Planting Preparation**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**32 92 Turf And Grasses (32 90)****32 92 16 Plugging (32 92)****32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)**

Note: Includes fine grade and soil preparation.

**32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)**

32 92 16 00-0003	MSF	Plugging By Hand, 6" On Center.....	211.98
32 92 16 00-0004	MSF	Plugging By Walk Behind Planter, 6" On Center.....	48.05
32 92 16 00-0005	MSF	Plugging By Towed Planter, 6" On Center.....	41.39

**32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)**

32 92 16 00-0007	MSF	Plugging By Hand, 9" On Center.....	162.02
32 92 16 00-0008	MSF	Plugging By Walk Behind Planter, 9" On Center.....	36.67
32 92 16 00-0009	MSF	Plugging By Towed Planter, 9" On Center.....	30.78

**32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)**

32 92 16 00-0011	MSF	Plugging By Hand, 12" On Center.....	132.75
32 92 16 00-0012	MSF	Plugging By Walk Behind Planter, 12" On Center.....	23.86
32 92 16 00-0013	MSF	Plugging By Towed Planter, 12" On Center.....	19.33

**32 92 19 Seeding (32 92)****32 92 19 13 Mechanical Seeding (32 92 19)**

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

**32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)**

Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 13-0002	MSF	Common Bluegrass, Tractor Spreader.....	45.59
		Note: 4 LB/MSF spread rate.	
32 92 19 13-0003	MSF	Tall Fescue, Tractor Spreader.....	43.11
		Note: 5.5 LB/MSF spread rate.	
32 92 19 13-0004	MSF	Rye, Tractor Spreader.....	44.40
		Note: 10 LB/MSF spread rate.	
32 92 19 13-0005	MSF	Shade Mix, Tractor Spreader.....	50.95
		Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	
32 92 19 13-0006	MSF	Turf Mix, Tractor Spreader.....	55.66
		Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	
32 92 19 13-0007	MSF	Slope Mix, Tractor Spreader.....	49.39
		Note: 6 LB/MSF spread rate.	
32 92 19 13-0008	MSF	Utility Mix, Tractor Spreader.....	41.56
		Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	
32 92 19 13-0009	MSF	Wild Flower Mix, Tractor Spreader.....	26.80
		Note: 0.10 LB/MSF spread rate.	
32 92 19 13-0010	MSF	Crown Vetch Mix, Tractor Spreader.....	143.51
		Note: 4 LB/MSF spread rate.	
32 92 19 13-0011	MSF	Athletic Mix, Tractor Spreader.....	74.49
		Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	
32 92 19 13-0012	MSF	White Clover Mix, Tractor Spreader.....	26.64
		Note: 7 LB/MSF spread rate.	
32 92 19 13-0013	MSF	Ladino Clover Mix, Tractor Spreader.....	32.91
		Note: 7 LB/MSF spread rate.	

**32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)**

32 92 19 13-0015	MSF	Common Bluegrass, Hydro Or Air Seeding.....	89.50
		Note: 4 LB/MSF spread rate.	
		For Spot Areas Up To 1, Add	83.69
		For >1 To 4, Add	52.73
		For >4 To 7.5, Add	35.07
		For >7.5 To 10, Add	17.54
		For >45, Deduct	-6.65
		For Tackifier, Add	0.82
32 92 19 13-0016	MSF	Tall Fescue, Hydro Or Air Seeding.....	96.50
		Note: 5.5 LB/MSF spread rate.	
		For Spot Areas Up To 1, Add	86.49
		For >1 To 4, Add	54.13
		For >4 To 7.5, Add	35.77
		For >7.5 To 10, Add	17.89
		For >45, Deduct	-7.00
		For Tackifier, Add	0.82



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Turf And Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0017 MSF Rye, Hydro Or Air Spread .....	89.80	
Note: 10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	83.81	
For >1 To 4, Add	52.79	
For >4 To 7.5, Add	35.10	
For >7.5 To 10, Add	17.55	
For >45, Deduct	-6.67	
For Tackifier, Add	0.82	
32 92 19 13-0018 MSF Shade Mix, Hydro Or Air Seeding .....	89.50	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
For Spot Areas Up To 1, Add	83.69	
For >1 To 4, Add	52.73	
For >4 To 7.5, Add	35.07	
For >7.5 To 10, Add	17.54	
For >45, Deduct	-6.65	
For Tackifier, Add	0.82	
32 92 19 13-0019 MSF Turf Mix, Hydro Or Air Seeding .....	96.50	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
For Spot Areas Up To 1, Add	86.49	
For >1 To 4, Add	54.13	
For >4 To 7.5, Add	35.77	
For >7.5 To 10, Add	17.89	
For >45, Deduct	-7.00	
For Tackifier, Add	0.82	
32 92 19 13-0020 MSF Slope Mix, Hydro Or Air Seeding .....	93.50	
Note: 6 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	85.29	
For >1 To 4, Add	53.53	
For >4 To 7.5, Add	35.47	
For >7.5 To 10, Add	17.74	
For >45, Deduct	-6.85	
For Tackifier, Add	0.82	
32 92 19 13-0021 MSF Utility Mix, Hydro Or Air Seeding .....	91.08	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
For Spot Areas Up To 1, Add	84.33	
For >1 To 4, Add	53.05	
For >4 To 7.5, Add	35.23	
For >7.5 To 10, Add	17.62	
For >45, Deduct	-6.73	
For Tackifier, Add	0.82	
32 92 19 13-0022 MSF Wild Flower Mix, Hydro Or Air Seeding .....	83.30	
Note: 0.10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	81.21	
For >1 To 4, Add	51.49	
For >4 To 7.5, Add	34.45	
For >7.5 To 10, Add	17.23	
For >45, Deduct	-6.34	
For Tackifier, Add	0.82	
32 92 19 13-0023 MSF Crown Vetch Mix, Hydro Or Air Seeding .....	153.45	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	109.27	
For >1 To 4, Add	65.52	
For >4 To 7.5, Add	41.47	
For >7.5 To 10, Add	20.73	
For >45, Deduct	-9.85	
For Tackifier, Add	0.82	
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding .....	131.49	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	100.49	
For >1 To 4, Add	61.13	
For >4 To 7.5, Add	39.27	
For >7.5 To 10, Add	19.64	
For >45, Deduct	-8.75	
For Tackifier, Add	0.82	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding .....	73.81	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	77.42	
For >1 To 4, Add	49.59	
For >4 To 7.5, Add	33.51	
For >7.5 To 10, Add	16.75	
For >45, Deduct	-5.87	
For Tackifier, Add	0.82	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding .....	85.50	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	82.09	
For >1 To 4, Add	51.93	
For >4 To 7.5, Add	34.67	
For >7.5 To 10, Add	17.34	
For >45, Deduct	-6.45	
For Tackifier, Add	0.82	

**32 Exterior Improvements****32 90 Planting****32 92 Turf And Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread Note: 4 LB/MSF spread rate.	91.50	
			<i>For Spot Areas Up To 1, Add</i>	84.49	
			<i>For &gt;1 To 4, Add</i>	53.13	
			<i>For &gt;4 To 7.5, Add</i>	35.27	
			<i>For &gt;7.5 To 10, Add</i>	17.64	
			<i>For &gt;45, Deduct</i>	-6.75	
			<i>For Tackifier, Add</i>	0.82	
32 92 19 13-0028	MSF		2,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	79.08	
			<i>For &gt;45, Deduct</i>	-5.04	
32 92 19 13-0029	MSF		3,000 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	91.63	
			<i>For &gt;45, Deduct</i>	-5.73	
32 92 19 13-0030	MSF		3,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	104.24	
			<i>For &gt;45, Deduct</i>	-6.41	
32 92 19 13-0031	MSF		4,000 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	116.88	
			<i>For &gt;45, Deduct</i>	-7.10	
32 92 19 13-0032	MSF		4,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	129.61	
			<i>For &gt;45, Deduct</i>	-7.80	
<b>32 92 19 19</b>			<b>Seeding By Hand</b> <small>(32 92 19)</small>		
			Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
<b>32 92 19 19-0001</b>			<b>Push Spreader Or Hand Seeding</b> <small>(32 92 19 19)</small>		
			Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand Note: 4 LB/MSF spread rate.	101.26	
			<i>For &gt;5 To 20, Deduct</i>	-6.91	
			<i>For &gt;20 To 45, Deduct</i>	-13.12	
			<i>For &gt;45, Deduct</i>	-21.18	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand Note: 5.5 LB/MSF spread rate.	98.78	
			<i>For &gt;5 To 20, Deduct</i>	-6.78	
			<i>For &gt;20 To 45, Deduct</i>	-12.93	
			<i>For &gt;45, Deduct</i>	-20.93	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand Note: 10 LB/MSF spread rate.	100.07	
			<i>For &gt;5 To 20, Deduct</i>	-6.85	
			<i>For &gt;20 To 45, Deduct</i>	-13.03	
			<i>For &gt;45, Deduct</i>	-21.06	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	106.62	
			<i>For &gt;5 To 20, Deduct</i>	-7.17	
			<i>For &gt;20 To 45, Deduct</i>	-13.52	
			<i>For &gt;45, Deduct</i>	-21.71	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	111.33	
			<i>For &gt;5 To 20, Deduct</i>	-7.41	
			<i>For &gt;20 To 45, Deduct</i>	-13.88	
			<i>For &gt;45, Deduct</i>	-22.19	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand Note: 6 LB/MSF spread rate.	105.06	
			<i>For &gt;5 To 20, Deduct</i>	-7.10	
			<i>For &gt;20 To 45, Deduct</i>	-13.41	
			<i>For &gt;45, Deduct</i>	-21.56	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	97.23	
			<i>For &gt;5 To 20, Deduct</i>	-6.70	
			<i>For &gt;20 To 45, Deduct</i>	-12.82	
			<i>For &gt;45, Deduct</i>	-20.78	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand Note: 0.10 LB/MSF spread rate.	82.47	
			<i>For &gt;5 To 20, Deduct</i>	-5.97	
			<i>For &gt;20 To 45, Deduct</i>	-11.71	
			<i>For &gt;45, Deduct</i>	-19.30	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand Note: 4 LB/MSF spread rate.	199.18	
			<i>For &gt;5 To 20, Deduct</i>	-11.80	
			<i>For &gt;20 To 45, Deduct</i>	-20.46	
			<i>For &gt;45, Deduct</i>	-30.97	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	130.16	
			<i>For &gt;5 To 20, Deduct</i>	-8.35	
			<i>For &gt;20 To 45, Deduct</i>	-15.29	
			<i>For &gt;45, Deduct</i>	-24.07	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate.	82.31	
			<i>For &gt;5 To 20, Deduct</i>	-5.96	
			<i>For &gt;20 To 45, Deduct</i>	-11.70	
			<i>For &gt;45, Deduct</i>	-19.28	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Turf And Grasses	32 92

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand .....88.58 Note: 7 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -6.27 <i>For &gt;20 To 45, Deduct</i> -12.17 <i>For &gt;45, Deduct</i> -19.91		
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand .....103.16 Note: 3.3 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -7.00 <i>For &gt;20 To 45, Deduct</i> -13.26 <i>For &gt;45, Deduct</i> -21.37		
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand .....97.66 Note: 3.3 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -6.73 <i>For &gt;20 To 45, Deduct</i> -12.85 <i>For &gt;45, Deduct</i> -20.82		
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand .....93.66 Note: 3.3 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -6.53 <i>For &gt;20 To 45, Deduct</i> -12.55 <i>For &gt;45, Deduct</i> -20.42		
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand .....101.66 Note: 4.4 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -6.93 <i>For &gt;20 To 45, Deduct</i> -13.15 <i>For &gt;45, Deduct</i> -21.22		
32 92 19 19-0018	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand .....95.66 Note: 3.3 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -6.63 <i>For &gt;20 To 45, Deduct</i> -12.70 <i>For &gt;45, Deduct</i> -20.62		
32 92 19 19-0019	MSF		40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand .....111.33 Note: 3.3 LB/MSF spread rate. <i>For &gt;5 To 20, Deduct</i> -7.41 <i>For &gt;20 To 45, Deduct</i> -13.88 <i>For &gt;45, Deduct</i> -22.19		

**32 92 23 Sodding** (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

**32 92 23 00-0001 Bermuda Sod** (32 92 23)

32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground .....2,094.31
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground .....1,680.36
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground .....1,414.33
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground .....1,194.52
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....2,381.92
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....1,925.49
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....1,583.44
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....1,338.33

**32 92 23 00-0010 Zoysia Sod** (32 92 23)

32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground .....3,417.15
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground .....2,672.49
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground .....2,241.11
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground .....1,855.94
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes .....3,704.76
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes .....2,917.62
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes .....2,410.22
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes .....1,999.75

**32 92 23 00-0019 Tall Fescue Sod** (32 92 23)

32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground .....3,355.91 <i>For Hybrid Fescue "Marathon", Add</i> 278.07
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground .....2,626.56 <i>For Hybrid Fescue "Marathon", Add</i> 208.73
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground .....2,202.83 <i>For Hybrid Fescue "Marathon", Add</i> 174.06
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground .....1,825.31 <i>For Hybrid Fescue "Marathon", Add</i> 139.39
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes .....3,643.52 <i>For Hybrid Fescue "Marathon", Add</i> 278.07
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes .....2,871.69 <i>For Hybrid Fescue "Marathon", Add</i> 208.73
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes .....2,371.94 <i>For Hybrid Fescue "Marathon", Add</i> 174.06
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes .....1,969.12 <i>For Hybrid Fescue "Marathon", Add</i> 139.39



**32 Exterior Improvements****32 90 Planting****32 92 Turf And Grasses**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>32 92 23 00-0028</b>	<b>Centipede Sod</b> <small>(32 92 23)</small>		
32 92 23 00-0029	MSF Up To 1,000 SF, Centipede Sod, Installed On Level Ground .....	2,905.79	
32 92 23 00-0030	MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground .....	2,288.96	
32 92 23 00-0031	MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground .....	1,921.50	
32 92 23 00-0032	MSF >8,000 SF, Centipede Sod, Installed On Level Ground .....	1,600.25	
32 92 23 00-0033	MSF Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes .....	3,193.40	
32 92 23 00-0034	MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,534.09	
32 92 23 00-0035	MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,090.61	
32 92 23 00-0036	MSF >8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,744.06	

<b>32 92 23 00-0037</b>	<b>Kentucky Blue Grass Sod</b> <small>(32 92 23)</small>		
32 92 23 00-0038	MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground .....	1,947.30	
32 92 23 00-0039	MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground .....	1,570.10	
32 92 23 00-0040	MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground .....	1,322.45	
32 92 23 00-0041	MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground .....	1,121.01	
32 92 23 00-0042	MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,234.91	
32 92 23 00-0043	MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,815.23	
32 92 23 00-0044	MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,491.56	
32 92 23 00-0045	MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,264.82	

<b>32 92 23 00-0046</b>	<b>Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar</b> <small>(32 92 23)</small>		
32 92 23 00-0047	MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground .....	2,454.97	
32 92 23 00-0048	MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground .....	1,950.85	
32 92 23 00-0049	MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground .....	1,639.74	
32 92 23 00-0050	MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground .....	1,374.84	
32 92 23 00-0051	MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,742.58	
32 92 23 00-0052	MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,195.98	
32 92 23 00-0053	MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,808.85	
32 92 23 00-0054	MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,518.65	

<b>32 92 23 00-0055</b>	<b>GN-1 Sod</b> <small>(32 92 23)</small>		
32 92 23 00-0056	MSF Up To 1,000 SF, GN-1 Sod, Installed On Level Ground .....	3,391.28	
32 92 23 00-0057	MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground .....	2,653.09	
32 92 23 00-0058	MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground .....	2,224.94	
32 92 23 00-0059	MSF >8,000 SF, GN-1 Sod, Installed On Level Ground .....	1,843.00	
32 92 23 00-0060	MSF Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes .....	3,678.89	
32 92 23 00-0061	MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,898.22	
32 92 23 00-0062	MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,394.05	
32 92 23 00-0063	MSF >8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes .....	1,986.81	

<b>32 92 23 00-0064</b>	<b>Tifgreen Bermuda Sod</b> <small>(32 92 23)</small>		
32 92 23 00-0065	MSF Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground .....	3,595.89	
32 92 23 00-0066	MSF >1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground .....	2,806.54	
32 92 23 00-0067	MSF >4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground .....	2,352.82	
32 92 23 00-0068	MSF >8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground .....	1,945.30	
32 92 23 00-0069	MSF Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....	3,883.50	
32 92 23 00-0070	MSF >1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....	3,051.67	
32 92 23 00-0071	MSF >4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,521.93	
32 92 23 00-0072	MSF >8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes .....	2,089.11	

**32 93 Plants** (32 90)**32 93 13 Ground Covers** (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

<b>32 93 13 00-0001</b>	<b>Ornamental Grasses</b> <small>(32 93 13)</small>		
32 93 13 00-0002	EA 1 Gallon, Cortaderia selloana - Pampas Grass .....	18.65	
32 93 13 00-0003	EA 2 Gallon, Cortaderia selloana - Pampas Grass .....	34.48	
32 93 13 00-0004	EA 3 Gallon, Cortaderia selloana - Pampas Grass .....	62.67	
32 93 13 00-0005	EA 5 Gallon, Cortaderia selloana - Pampas Grass .....	114.07	
32 93 13 00-0006	EA 1 Quart, Imperata cylindrica - Japanese Blood Grass .....	14.28	
32 93 13 00-0007	EA 1 Gallon, Imperata cylindrica - Japanese Blood Grass .....	18.99	
32 93 13 00-0008	EA 2 Gallon, Imperata cylindrica - Japanese Blood Grass .....	20.32	
32 93 13 00-0009	EA 1 Quart, Koeleria glauca - Blue Hair Grass .....	14.24	
32 93 13 00-0010	EA 1 Gallon, Koeleria glauca - Blue Hair Grass .....	18.99	
32 93 13 00-0011	EA 3 Gallon, Koeleria glauca - Blue Hair Grass .....	45.94	
32 93 13 00-0012	EA 1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass .....	18.03	
32 93 13 00-0013	EA 3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass .....	23.36	
32 93 13 00-0014	EA 5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass .....	44.67	
32 93 13 00-0015	EA 1 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass .....	16.73	
32 93 13 00-0016	EA 3 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass .....	26.31	
32 93 13 00-0017	EA 5 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass .....	45.02	
32 93 13 00-0018	EA 1 Quart, Pennisetum setaceum - Fountain Grass .....	15.58	
32 93 13 00-0019	EA 1 Gallon, Pennisetum setaceum - Fountain Grass .....	39.62	
32 93 13 00-0020	EA 3 Gallon, Pennisetum setaceum - Fountain Grass .....	52.24	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass.....		49.31	
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass.....		55.40	
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass.....		91.39	
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass.....		26.78	
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass.....		40.08	
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass.....		20.44	
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass.....		28.48	
32 93 13 00-0028		<b>Ground Covers</b> <small>(32 93 13)</small>			
32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant.....		7.08	
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant.....		19.09	
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant.....		63.13	
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....		6.04	
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....		16.81	
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....		6.04	
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....		15.71	
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily.....		5.30	
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily.....		13.06	
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....		9.84	
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....		25.86	
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN.....		7.38	
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN.....		108.84	
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass.....		9.84	
32 93 13 00-0043	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine.....		5.35	
32 93 13 00-0044	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine.....		13.41	
32 93 13 00-0045	EA	1 Gallon Westringia Fruticosa - Coast Rosemary.....		5.30	
32 93 13 00-0046	EA	5 Gallon Westringia Fruticosa - Coast Rosemary.....		13.06	
32 93 13 00-0047	EA	15 Gallon Westringia Fruticosa - Coast Rosemary.....		53.58	
32 93 13 00-0048	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....		12.66	
32 93 13 00-0049	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....		16.48	
32 93 13 00-0050	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....		20.86	
32 93 13 00-0051	EA	1 Quart Waldsteinia ternata - Barren Strawberry.....		3.58	
32 93 13 00-0052	EA	1 Gallon Waldsteinia ternata - Barren Strawberry.....		8.60	
32 93 13 00-0053	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....		11.70	
32 93 13 00-0054	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....		22.21	
32 93 13 00-0055	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....		39.16	
32 93 13 00-0056	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....		4.01	
32 93 13 00-0057	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....		7.40	
32 93 13 00-0058	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....		26.03	
32 93 13 00-0059	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....		9.72	
32 93 13 00-0060	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy.....		4.78	
32 93 13 00-0061	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy.....		10.89	
32 93 13 00-0062	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy.....		29.80	
32 93 13 00-0063	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea.....		12.52	
32 93 13 00-0064	EA	1 Quart Iberis sempervirens - Candytuft.....		3.58	
32 93 13 00-0065	EA	1 Gallon Iberis sempervirens - Candytuft.....		8.60	
32 93 13 00-0066	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine.....		10.32	
32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine.....		37.25	
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle.....		2.15	
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle.....		3.58	
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle.....		8.60	
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle.....		37.01	
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....		8.60	
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....		37.25	
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....		11.22	
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....		24.84	
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....		37.25	
32 93 13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties.....		12.34	
32 93 13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties.....		22.82	
32 93 13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....		15.52	
32 93 13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....		29.13	
32 93 13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....		47.76	
32 93 13 00-0082	EA	4" Pot Lantana camera - Common Lantana.....		2.15	
32 93 13 00-0083	EA	1 Gallon Lantana camera - Common Lantana.....		6.21	
32 93 13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....		7.40	
32 93 13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....		24.36	
32 93 13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny.....		3.58	
32 93 13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny.....		6.93	
32 93 13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft.....		6.21	
32 93 13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft.....		11.22	
32 93 13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft.....		23.64	
32 93 13 00-0091	EA	Bare Root Liriope spicata - Creeping Liriope.....		1.57	
32 93 13 00-0092	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....		2.15	
32 93 13 00-0093	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....		8.60	
32 93 13 00-0094	EA	2-1/4" Pot Securigera varia - Crown Vetch.....		1.43	
32 93 13 00-0095	EA	50 Plant Flat Securigera varia - Crown Vetch.....		48.48	
32 93 13 00-0096	EA	1 Quart Senecio cineraria - Dusty Miller.....		3.58	
32 93 13 00-0097	EA	1 Gallon Senecio cineraria - Dusty Miller.....		8.60	
32 93 13 00-0098	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....		29.85	
32 93 13 00-0099	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....		54.69	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

32 93 13 00-0100	EA	1 Gallon Ilex cornuta - Dwarf Holly	6.49	
32 93 13 00-0101	EA	3 Gallon Ilex cornuta - Dwarf Holly	13.90	
32 93 13 00-0102	EA	3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn	13.90	
32 93 13 00-0103	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	4.63	
32 93 13 00-0104	EA	2" To 3" Pot Hedera helix - English Ivy	2.15	
32 93 13 00-0105	EA	12" To 15" Runners Hedera helix - English Ivy	3.58	
32 93 13 00-0106	EA	1 Gallon Hedera helix - English Ivy	8.60	
32 93 13 00-0107	EA	50 Plant Flat Hedera helix - English Ivy	49.67	
32 93 13 00-0108	EA	4" Pot Lavandula angustifolia - English Lavender	3.10	
32 93 13 00-0109	EA	1 Quart Lavandula angustifolia - English Lavender	5.97	
32 93 13 00-0110	EA	1 Gallon Lavandula angustifolia - English Lavender	9.79	
32 93 13 00-0111	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	9.31	
32 93 13 00-0112	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	18.63	
32 93 13 00-0113	EA	1 Quart Arundo donax - Giant Reed	11.46	
32 93 13 00-0114	EA	1 Gallon Arundo donax - Giant Reed	16.48	
32 93 13 00-0115	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	9.79	
32 93 13 00-0116	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	18.63	
32 93 13 00-0117	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	12.66	
32 93 13 00-0118	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	19.11	
32 93 13 00-0119	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	2.15	
32 93 13 00-0120	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	9.79	
32 93 13 00-0121	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	18.63	
32 93 13 00-0122	EA	1 Gallon Hardenbergia violacea - Happy Wanderer	8.60	
32 93 13 00-0123	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	28.66	
32 93 13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors	11.20	
32 93 13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag	8.96	
32 93 13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine	4.51	
32 93 13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine	11.20	
32 93 13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	5.63	
32 93 13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	12.52	
32 93 13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine	6.93	
32 93 13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine	21.73	
32 93 13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear	3.58	
32 93 13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear	8.60	
32 93 13 00-0134	EA	1 Gallon Lantana spp. Various Colors	5.07	
32 93 13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana	3.34	
32 93 13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	6.93	
32 93 13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	24.84	
32 93 13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	5.07	
32 93 13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	6.40	
32 93 13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	10.23	
32 93 13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox	3.58	
32 93 13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox	8.60	
32 93 13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern	4.51	
32 93 13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass	2.15	
32 93 13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass	8.60	
32 93 13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass	19.82	
32 93 13 00-0147	EA	2' To 3' High Oregon Holly-Grape	9.92	
32 93 13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra	12.93	
32 93 13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle	1.19	
32 93 13 00-0150	EA	4" Pot Vinca minor - Periwinkle	3.58	
32 93 13 00-0151	EA	Bare Root Vinca minor - Periwinkle	1.19	
32 93 13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint	3.58	
32 93 13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint	7.40	
32 93 13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	5.97	
32 93 13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	21.73	
32 93 13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	9.79	
32 93 13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	21.01	
32 93 13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	31.04	
32 93 13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	8.53	
32 93 13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	22.10	
32 93 13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	37.02	
32 93 13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoeco Discolor "Dwarf"	4.51	
32 93 13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	5.02	
32 93 13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	8.96	
32 93 13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	13.97	
32 93 13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily	5.56	
32 93 13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily	14.83	
32 93 13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort	3.58	
32 93 13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort	8.60	
32 93 13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort	22.21	
32 93 13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	30.22	
32 93 13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper	13.13	
32 93 13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper	19.82	
32 93 13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper	47.76	
32 93 13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	1.19	
32 93 13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle	3.58	
32 93 13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle	1.19	
32 93 13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	6.45	
32 93 13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	8.96	
32 93 13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	13.97	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0181 EA 1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	.979	
32 93 13 00-0182 EA 2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena.....	4.54	
32 93 13 00-0183 EA 1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena.....	6.93	
32 93 13 00-0184 EA 48 Plant Flat Vinca minor - Lesser Periwinkle.....	42.56	
32 93 13 00-0185 EA 3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	2.15	
32 93 13 00-0186 EA 1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	11.22	
32 93 13 00-0187 EA 1 Gallon Jasminum polyanthum - Winter Jasmine.....	8.60	
32 93 13 00-0188 EA 2 Gallon Jasminum polyanthum - Winter Jasmine.....	17.19	
32 93 13 00-0189 EA 5 Gallon Jasminum polyanthum - Winter Jasmine.....	29.85	
32 93 13 00-0190 EA 1 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	6.93	
32 93 13 00-0191 EA 5 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	23.64	
32 93 13 00-0192 EA Flat Hedera canariensis - Algerian Ivy.....	14.38	
32 93 13 00-0193 EA 2-1/2" Pot Hedera canariensis - Algerian Ivy.....	3.80	
32 93 13 00-0194 EA Flat Gazania 'Copper King'.....	11.80	
32 93 13 00-0195 EA 1 Gallon Gazania 'Copper King'.....	4.03	
32 93 13 00-0196 EA Flat Myoporum parvifolium - Myoporum.....	14.38	
32 93 13 00-0197 EA 1 Gallon Myoporum parvifolium - Myoporum.....	4.03	
32 93 13 00-0198 EA 5 Gallon Myoporum parvifolium - Myoporum.....	11.51	
32 93 13 00-0199 EA 1 Gallon Lantana montevidensis - Purple Lantana.....	4.03	
32 93 13 00-0200 EA 5 Gallon Lantana montevidensis - Purple Lantana.....	11.51	
32 93 13 00-0201 EA Flat Carpobrotus - Ice Plant.....	10.93	
32 93 13 00-0202 EA 1 Gallon Carpobrotus - Ice Plant.....	4.60	

**32 93 23 Plants And Bulbs (32 93)**

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

**32 93 23 00-0001 Perennials (32 93 23)**

32 93 23 00-0002 EA 2 Quart Assorted Daylilies.....	6.93	
32 93 23 00-0003 EA 1 Gallon Assorted Daylilies.....	9.79	
32 93 23 00-0004 EA 2 Gallon Assorted Daylilies.....	16.24	
32 93 23 00-0005 EA 1 Quart Azure Penstemon.....	3.58	
32 93 23 00-0006 EA 1 Gallon Azure Penstemon.....	8.96	
32 93 23 00-0007 EA 1 Quart Balloon Flower.....	3.58	
32 93 23 00-0008 EA 1 Gallon Balloon Flower.....	8.96	
32 93 23 00-0009 EA 1 Quart Black-eyed Susan.....	3.58	
32 93 23 00-0010 EA 1 Gallon Black-eyed Susan.....	8.96	
32 93 23 00-0011 EA 2 Gallon Black-eyed Susan.....	11.58	
32 93 23 00-0012 EA 1 Quart Blackberry Lily.....	3.58	
32 93 23 00-0013 EA 1 Gallon Blackberry Lily.....	8.96	
32 93 23 00-0014 EA 1 Quart Blank Flower.....	3.58	
32 93 23 00-0015 EA 1 Gallon Blank Flower.....	8.24	
32 93 23 00-0016 EA 2 Gallon Blank Flower.....	11.58	
32 93 23 00-0017 EA 1 Quart Blazing Star, Gayfeather.....	3.58	
32 93 23 00-0018 EA 1 Gallon Blazing Star, Gayfeather.....	8.96	
32 93 23 00-0019 EA 1 Quart Bloodred Geranium.....	6.09	
32 93 23 00-0020 EA 1 Gallon Bloodred Geranium.....	10.27	
32 93 23 00-0021 EA 1 Quart Blue Plumbago.....	3.58	
32 93 23 00-0022 EA 1 Gallon Blue Plumbago.....	8.96	
32 93 23 00-0023 EA 1 Quart Blue Star.....	6.45	
32 93 23 00-0024 EA 1 Gallon Blue Star.....	10.27	
32 93 23 00-0025 EA 1 Quart Cardinal Flower.....	3.58	
32 93 23 00-0026 EA 1 Gallon Cardinal Flower.....	8.96	
32 93 23 00-0027 EA 4" Pot Columbine.....	2.15	
32 93 23 00-0028 EA 1 Quart Columbine.....	3.58	
32 93 23 00-0029 EA 1 Gallon Columbine.....	8.96	
32 93 23 00-0030 EA 1 Quart Common Globeflower.....	3.58	
32 93 23 00-0031 EA 1 Gallon Common Globeflower.....	8.96	
32 93 23 00-0032 EA 1 Quart Cottage Pink, Scotch Pink.....	3.58	
32 93 23 00-0033 EA 1 Quart Cottage Pink, Scotch Pink.....	8.96	
32 93 23 00-0034 EA 1 Gallon Astilbe 'Deutschland'.....	12.90	
32 93 23 00-0035 EA 1 Quart Diploid.....	4.54	
32 93 23 00-0036 EA 1 Gallon Diploid.....	10.27	
32 93 23 00-0037 EA 3 Gallon Diploid.....	17.67	
32 93 23 00-0038 EA 4" Pot Dune Sunflower.....	5.11	
32 93 23 00-0039 EA 1 Quart Evans Begonia.....	6.45	
32 93 23 00-0040 EA 1 Gallon Evans Begonia.....	11.58	
32 93 23 00-0041 EA 1 Quart False Dragonhead.....	3.58	
32 93 23 00-0042 EA 1 Gallon False Dragonhead.....	8.96	
32 93 23 00-0043 EA 1 Quart False Spirea.....	3.58	
32 93 23 00-0044 EA 1 Gallon False Spirea.....	11.58	
32 93 23 00-0045 EA 3 Gallon False Spirea.....	16.00	
32 93 23 00-0046 EA 2 Quart False Sunflower.....	5.73	
32 93 23 00-0047 EA 1 Gallon False Sunflower.....	8.96	
32 93 23 00-0048 EA 2 Gallon False Sunflower.....	11.58	
32 93 23 00-0049 EA 1 Gallon Foxglove.....	8.24	
32 93 23 00-0050 EA 2 Gallon Foxglove.....	11.58	
32 93 23 00-0051 EA 3 Gallon Foxglove.....	16.72	
32 93 23 00-0052 EA 1 Gallon Francee Hostas.....	14.50	
32 93 23 00-0053 EA 1 Quart Garden Phlox.....	3.58	
32 93 23 00-0054 EA 1 Gallon Garden Phlox.....	8.96	
32 93 23 00-0055 EA 2 Quart Golden Groundsel.....	7.64	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 23 00-0056	EA	2 Gallon Golden Groundsel.....	15.40	
32 93 23 00-0057	EA	1 Quart Golden Star.....	3.58	
32 93 23 00-0058	EA	1 Gallon Golden Star.....	8.96	
32 93 23 00-0059	EA	1 Quart Goldenrod.....	3.58	
32 93 23 00-0060	EA	1 Gallon Goldenrod.....	8.96	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylilies.....	16.68	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy.....	2.15	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy.....	3.58	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy.....	8.96	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum.....	3.11	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum.....	5.14	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum.....	8.24	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony.....	12.78	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony.....	20.42	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony.....	26.87	
32 93 23 00-0071	EA	4" Pot Japanese Anemone.....	2.15	
32 93 23 00-0072	EA	1 Quart Japanese Anemone.....	6.45	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone.....	11.58	
32 93 23 00-0074	EA	2" Pot Japanese Spurge.....	1.27	
32 93 23 00-0075	EA	6" Pot Japanese Spurge.....	1.91	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge.....	8.23	
32 93 23 00-0077	EA	1 Quart Oriental Poppy.....	5.14	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy.....	10.27	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis.....	42.56	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris.....	7.05	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris.....	13.38	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells.....	13.56	
32 93 23 00-0083	EA	4" Pot Perennial Salvia.....	2.15	
32 93 23 00-0084	EA	1 Quart Perennial Salvia.....	3.58	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia.....	8.96	
32 93 23 00-0086	EA	1 Quart Pincushion Flower.....	3.58	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower.....	8.96	
32 93 23 00-0088	EA	2 Quart Plantain Lily.....	6.93	
32 93 23 00-0089	EA	1 Gallon Plantain Lily.....	9.79	
32 93 23 00-0090	EA	2 Gallon Plantain Lily.....	16.24	
32 93 23 00-0091	EA	3 Gallon Plantain Lily.....	30.69	
32 93 23 00-0092	EA	2 Quart Purple Coneflower.....	6.45	
32 93 23 00-0093	EA	1 Gallon Purple Coneflower.....	8.96	
32 93 23 00-0094	EA	2 Gallon Purple Coneflower.....	11.58	
32 93 23 00-0095	EA	1 Quart Purple Loosestrife.....	3.58	
32 93 23 00-0096	EA	1 Gallon Purple Loosestrife.....	8.96	
32 93 23 00-0097	EA	1 Quart Rose Mallow.....	7.05	
32 93 23 00-0098	EA	2 Gallon Rose Mallow.....	12.78	
32 93 23 00-0099	EA	3 Gallon Rose Mallow.....	21.85	
32 93 23 00-0100	EA	1 Gallon Autumn Joy Sedum.....	13.65	
32 93 23 00-0101	EA	1 Quart Siberian Iris.....	6.09	
32 93 23 00-0102	EA	2 Gallon Siberian Iris.....	11.58	
32 93 23 00-0103	EA	3 Gallon Siberian Iris.....	16.00	
32 93 23 00-0104	EA	1 Quart Speedwell.....	3.58	
32 93 23 00-0105	EA	1 Gallon Speedwell.....	8.96	
32 93 23 00-0106	EA	1 Quart Tetraploid.....	8.96	
32 93 23 00-0107	EA	1 Gallon Tetraploid.....	16.72	
32 93 23 00-0108	EA	3 Gallon Tetraploid.....	22.81	
32 93 23 00-0109	EA	1 Quart Threadleaf Coreopsis.....	3.58	
32 93 23 00-0110	EA	1 Gallon Threadleaf Coreopsis.....	8.96	
32 93 23 00-0111	EA	1 Quart Torch Lily.....	3.58	
32 93 23 00-0112	EA	1 Quart Bluebeard.....	6.45	
32 93 23 00-0113	EA	1 Gallon Bluebeard.....	9.55	
32 93 23 00-0114	EA	2 Gallon Bluebeard.....	13.97	

**32 93 23 00-0115 Annuals (32 93 23)**

32 93 23 00-0116	EA	2-1/2" Pot Annual Flowers.....	1.66	
32 93 23 00-0117	EA	3" Pot Annual Flowers.....	2.25	
32 93 23 00-0118	EA	4" Pot Annual Flowers.....	4.81	
32 93 23 00-0119	EA	5-1/2" Pot Annual Flowers.....	6.39	
32 93 23 00-0120	EA	6" Pot Annual Flowers.....	12.65	
32 93 23 00-0121	EA	8" Pot Annual Flowers.....	21.09	
32 93 23 00-0122	EA	36 Plant Flat Annual Flowers.....	27.61	
32 93 23 00-0123	EA	48 Plant Flat Annual Flowers.....	31.32	

**32 93 23 00-0124 Bulbs (32 93 23)**

32 93 23 00-0125	EA	Top Size Allium giganteum - Giant Ornamental Onion.....	5.78	
32 93 23 00-0126	EA	Top Size Allium sphaerocephalum - Drumstick Ornamental Onion.....	0.33	
32 93 23 00-0127	EA	Top Size Crocus Hybrid.....	0.38	
32 93 23 00-0128	EA	Top Size Eranthis hyemalis - Winter Aconite.....	0.49	
32 93 23 00-0129	EA	Top Size Galanthus nivalis - Snowdrops.....	0.62	
32 93 23 00-0130	EA	Top Size Iris reticulata cvs - Dutch Iris.....	0.24	
32 93 23 00-0131	EA	Top Size Muscari armeniacum - Grape Hyacinth.....	0.29	
32 93 23 00-0132	EA	Top Size Muscari latifolium - Grape Hyacinth.....	0.33	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0133	EA		Narcissus 'Carlton' - Carlton Daffodil DNI .....	2.00	
32 93 23 00-0134	EA		Narcissus 'Dutch Master' - Dutch Master Daffodil DNI .....	0.96	
32 93 23 00-0135	EA		Narcissus 'February Gold' - February Gold Daffodil DNI .....	1.00	
32 93 23 00-0136	EA		Narcissus 'Ice Follies' - Ice Follies Daffodil DNI .....	1.00	
32 93 23 00-0137	EA		Narcissus 'Mount Hood' - Mount Hood Daffodil DNI .....	1.04	
32 93 23 00-0138	EA		Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI .....	1.11	
32 93 23 00-0139	EA		Narcissus 'Pipit' - Pipit Daffodil DNI .....	1.04	
32 93 23 00-0140	EA		Narcissus 'Salome' - Salome Daffodil DNI .....	0.98	
32 93 23 00-0141	EA		Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI .....	1.04	
32 93 23 00-0142	EA		Narcissus 'Thalia' - Thalia Daffodil DNI .....	1.04	
32 93 23 00-0143	EA		Top Size Scilla siberica - Siberian Squill .....	0.31	
32 93 23 00-0144	EA		Top Size Tulip 'Angelique' - Angelique Tulip .....	0.89	
32 93 23 00-0145	EA		Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip .....	0.67	
32 93 23 00-0146	EA		Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip .....	0.89	
32 93 23 00-0147	EA		Top Size Tulip 'Big Smile' - Big Smile Tulip .....	0.78	
32 93 23 00-0148	EA		Top Size Tulip 'Black Parrot' - Black Parrot Tulip .....	1.11	
32 93 23 00-0149	EA		Top Size Tulip 'Blue Heron' - Blue Heron Tulip .....	0.84	
32 93 23 00-0150	EA		Top Size Tulip 'Cardinal' - Cardinal Tulip .....	0.73	
32 93 23 00-0151	EA		Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip .....	0.82	
32 93 23 00-0152	EA		Top Size Tulip clusiana - Species Tulip .....	0.82	
32 93 23 00-0153	EA		Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip .....	0.82	
32 93 23 00-0154	EA		Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip .....	0.67	
32 93 23 00-0155	EA		Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip .....	0.64	
32 93 23 00-0156	EA		Top Size Tulip 'Halcro' - Halcro Tulip .....	0.67	
32 93 23 00-0157	EA		Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip .....	1.11	
32 93 23 00-0158	EA		Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip .....	0.67	
32 93 23 00-0159	EA		Top Size Tulip 'Passionale' - Passionale Tulip .....	0.89	
32 93 23 00-0160	EA		Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip .....	0.96	
32 93 23 00-0161	EA		Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip .....	1.00	
32 93 23 00-0162	EA		Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip .....	0.80	
32 93 23 00-0163	EA		Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip .....	0.76	
32 93 23 00-0164	EA		Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip .....	0.82	
32 93 23 00-0165	EA		Top Size Tulip 'Princeps' - Princeps Tulip .....	0.82	
32 93 23 00-0166	EA		Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip .....	0.64	
32 93 23 00-0167	EA		Top Size Tulip saxatilis - Species Tulip .....	0.44	
32 93 23 00-0168	EA		Top Size Tulip 'Shirley' - Shirley Tulip .....	0.67	
32 93 23 00-0169	EA		Top Size Tulip 'Spring Green' - Spring Green Tulip .....	0.87	
32 93 23 00-0170	EA		Top Size Tulip 'White Emperor' - White Emperor Tulip .....	0.67	

**32 93 33 Shrubs (32 93)**

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

**32 93 33 00-0001 Shrubs (32 93 33)**

32 93 33 00-0002	EA	1	Gallon Abelia x grandiflora - Abelia .....	7.30	
32 93 33 00-0003	EA	3	Gallon Abelia x grandiflora - Abelia .....	14.86	
32 93 33 00-0004	EA	5	Gallon Abelia x grandiflora - Abelia .....	28.52	
32 93 33 00-0005	EA	1	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia .....	5.35	
32 93 33 00-0006	EA	5	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia .....	13.23	
32 93 33 00-0007	EA	15	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia .....	52.53	
32 93 33 00-0008	EA	3	Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye .....	105.89	
32 93 33 00-0009	EA	18"	B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye .....	154.76	
32 93 33 00-0010	EA	24"	B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye .....	172.68	
32 93 33 00-0011	EA	30"	B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye .....	218.29	
32 93 33 00-0012	EA	36"	B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye .....	242.73	
32 93 33 00-0013	EA	18"	B&B Aesculus parviflora - Bottlebrush Buckeye .....	48.87	
32 93 33 00-0014	EA	24"	B&B Aesculus parviflora - Bottlebrush Buckeye .....	65.16	
32 93 33 00-0015	EA	30"	B&B Aesculus parviflora - Bottlebrush Buckeye .....	81.45	
32 93 33 00-0016	EA	1	Gallon Agapanthus 'Peter Pan' - Lily of the Nile .....	5.35	
32 93 33 00-0017	EA	5	Gallon Agapanthus 'Peter Pan' - Lily of the Nile .....	13.23	
32 93 33 00-0018	EA	36"	B&B Aronia arbutifolia & cvs - Red Chokeberry .....	54.40	
32 93 33 00-0019	EA	42"	B&B Aronia arbutifolia & cvs - Red Chokeberry .....	64.00	
32 93 33 00-0020	EA	48"	B&B Aronia arbutifolia & cvs - Red Chokeberry .....	76.80	
32 93 33 00-0021	EA	60"	B&B Aronia arbutifolia & cvs - Red Chokeberry .....	89.60	
32 93 33 00-0022	EA	72"	B&B Aronia arbutifolia & cvs - Red Chokeberry .....	108.80	
32 93 33 00-0023	EA	36"	B&B Aronia melanocarpa & cvs - Black Chokeberry .....	52.80	
32 93 33 00-0024	EA	42"	B&B Aronia melanocarpa & cvs - Black Chokeberry .....	56.00	
32 93 33 00-0025	EA	48"	B&B Aronia melanocarpa & cvs - Black Chokeberry .....	59.20	
32 93 33 00-0026	EA	60"	B&B Aronia melanocarpa & cvs - Black Chokeberry .....	67.20	
32 93 33 00-0027	EA	36"	B&B Aronia prunifolia - Purple-Fruited Chokeberry .....	53.60	
32 93 33 00-0028	EA	42"	B&B Aronia prunifolia - Purple-Fruited Chokeberry .....	56.80	
32 93 33 00-0029	EA	48"	B&B Aronia prunifolia - Purple-Fruited Chokeberry .....	60.00	
32 93 33 00-0030	EA	60"	B&B Aronia prunifolia - Purple-Fruited Chokeberry .....	63.20	
32 93 33 00-0031	EA	1	Gallon Aspidistra elatior - Cast Iron Plant .....	11.00	
32 93 33 00-0032	EA	2	Gallon Aspidistra elatior - Cast Iron Plant .....	25.44	
32 93 33 00-0033	EA	1	Gallon Aucuba japonica "Variegata" - Gold Dust Plant .....	12.89	
32 93 33 00-0034	EA	3	Gallon Aucuba japonica "Variegata" - Gold Dust Plant .....	28.36	
32 93 33 00-0035	EA	5	Gallon Aucuba japonica "Variegata" - Gold Dust Plant .....	38.33	
32 93 33 00-0036	EA	1	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush .....	5.35	
32 93 33 00-0037	EA	5	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush .....	13.23	
32 93 33 00-0038	EA	1	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush .....	5.35	
32 93 33 00-0039	EA	5	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush .....	13.23	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	13.75	
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	20.11	
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry	57.41	
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry	72.88	
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry	102.10	
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	6.04	
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	14.56	
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	61.36	
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	78.55	
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	100.38	
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	16.50	
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	32.49	
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	39.70	
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	15.64	
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	44.17	
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	61.36	
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	94.71	
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	17.88	
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	47.95	
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	51.05	
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	65.66	
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	87.49	
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	131.32	
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	182.36	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	51.05	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	65.66	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	87.49	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood	131.32	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	33.60	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	56.00	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	147.20	
32 93 33 00-0071	EA	18" B&B Buxus microphylla & cvs - Little leaf Boxwood	80.00	
32 93 33 00-0072	EA	24" B&B Buxus microphylla & cvs - Little leaf Boxwood	108.80	
32 93 33 00-0073	EA	30" B&B Buxus microphylla & cvs - Little leaf Boxwood	147.20	
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	4.80	
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	14.78	
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	48.04	
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub	52.80	
32 93 33 00-0078	EA	30" B&B Calycanthus floridus - Common Sweetshrub	48.00	
32 93 33 00-0079	EA	36" B&B Calycanthus floridus - Common Sweetshrub	64.00	
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia	12.89	
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia	27.50	
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia	45.72	
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia	68.08	
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia	176.64	
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia	12.89	
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia	27.50	
32 93 33 00-0087	EA	5 Gallon Camellia japonica - Camellia	45.72	
32 93 33 00-0088	EA	5 Gallon Ceanothus americanus - New Jersey Tea	52.80	
32 93 33 00-0089	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	6.04	
32 93 33 00-0090	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	15.71	
32 93 33 00-0091	EA	5 Gallon Celastrus scandens - Bittersweet	52.80	
32 93 33 00-0092	EA	36" B&B Celastrus scandens - Bittersweet	44.80	
32 93 33 00-0093	EA	5 Gallon Cephalanthus occidentalis - Buttonbush	52.80	
32 93 33 00-0094	EA	24" B&B Cephalanthus occidentalis - Buttonbush	40.00	
32 93 33 00-0095	EA	30" B&B Cephalanthus occidentalis - Buttonbush	44.80	
32 93 33 00-0096	EA	36" B&B Cephalanthus occidentalis - Buttonbush	48.00	
32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince	46.06	
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince	61.36	
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince	94.71	
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose	5.35	
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose	13.23	
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	51.20	
32 93 33 00-0103	EA	18" B&B Clethra alnifolia & cvs - Summersweet Clethra	55.20	
32 93 33 00-0104	EA	24" B&B Clethra alnifolia & cvs - Summersweet Clethra	61.60	
32 93 33 00-0105	EA	30" B&B Clethra alnifolia & cvs - Summersweet Clethra	64.80	
32 93 33 00-0106	EA	36" B&B Clethra alnifolia & cvs - Summersweet Clethra	76.00	
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush	5.35	
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush	13.23	
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush	61.97	
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry	72.88	
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry	91.10	
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry	116.71	
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry	160.36	
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0115	EA	36" B&B Cornus alba & cvs - Tartarian Dogwood	33.60	
32 93 33 00-0116	EA	48" B&B Cornus alba & cvs - Tartarian Dogwood	38.40	
32 93 33 00-0117	EA	60" B&B Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0118	EA	72" B&B Cornus alba & cvs - Tartarian Dogwood	57.60	
32 93 33 00-0119	EA	36" B&B Cornus amomum - Silky Dogwood	48.00	
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood	52.80	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0121 EA 5 Gallon Cornus racemosa - Gray Dogwood	52.80	
32 93 33 00-0122 EA 36" B&B Cornus racemosa - Gray Dogwood	48.00	
32 93 33 00-0123 EA 48" B&B Cornus racemosa - Gray Dogwood	56.00	
32 93 33 00-0124 EA 60" B&B Cornus racemosa - Gray Dogwood	60.80	
32 93 33 00-0125 EA 72" B&B Cornus racemosa - Gray Dogwood	73.60	
32 93 33 00-0126 EA 36" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	52.00	
32 93 33 00-0127 EA 48" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	58.40	
32 93 33 00-0128 EA 60" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	66.40	
32 93 33 00-0129 EA 24" B&B Cornus sericea & cvs - Redosier Dogwood	41.60	
32 93 33 00-0130 EA 30" B&B Cornus sericea & cvs - Redosier Dogwood	48.00	
32 93 33 00-0131 EA 36" B&B Cornus sericea & cvs - Redosier Dogwood	51.20	
32 93 33 00-0132 EA 48" B&B Cornus sericea & cvs - Redosier Dogwood	56.00	
32 93 33 00-0133 EA 60" B&B Cornus sericea & cvs - Redosier Dogwood	62.40	
32 93 33 00-0134 EA 5 Gallon Corylus americana - American Filbert	49.60	
32 93 33 00-0135 EA 30" B&B Corylus americana - American Filbert	56.00	
32 93 33 00-0136 EA 36" B&B Corylus americana - American Filbert	60.00	
32 93 33 00-0137 EA 48" B&B Corylus americana - American Filbert	64.80	
32 93 33 00-0138 EA 24" B&B Corylus avellana - Contorted Hazelnut	160.00	
32 93 33 00-0139 EA 30" B&B Corylus avellana - Contorted Hazelnut	207.99	
32 93 33 00-0140 EA 36" B&B Corylus avellana - Contorted Hazelnut	223.99	
32 93 33 00-0141 EA 42" B&B Corylus avellana - Contorted Hazelnut	287.99	
32 93 33 00-0142 EA 48" B&B Corylus avellana - Contorted Hazelnut	351.99	
32 93 33 00-0143 EA 60" B&B Corylus avellana - Contorted Hazelnut	399.99	
32 93 33 00-0144 EA 5' To 6' Cotinus coggygria - Smoke Tree	153.14	
32 93 33 00-0145 EA 6' To 8' Cotinus coggygria - Smoke Tree	229.63	
32 93 33 00-0146 EA 8' To 10' Cotinus coggygria - Smoke Tree	346.34	
32 93 33 00-0147 EA 5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0148 EA 18" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0149 EA 24" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	41.60	
32 93 33 00-0150 EA 12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	38.33	
32 93 33 00-0151 EA 3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0152 EA 18" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	40.00	
32 93 33 00-0153 EA 24" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0154 EA 1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	16.50	
32 93 33 00-0155 EA 2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	51.05	
32 93 33 00-0156 EA 3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	68.92	
32 93 33 00-0157 EA 4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	116.71	
32 93 33 00-0158 EA 1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	5.35	
32 93 33 00-0159 EA 5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	13.23	
32 93 33 00-0160 EA 1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	16.50	
32 93 33 00-0161 EA 2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	32.49	
32 93 33 00-0162 EA 1 Gallon Cotoneaster lacteus - Red Clusterberry	5.35	
32 93 33 00-0163 EA 5 Gallon Cotoneaster lacteus - Red Clusterberry	13.23	
32 93 33 00-0164 EA 15 Gallon Cotoneaster lacteus - Red Clusterberry	52.53	
32 93 33 00-0165 EA 1 Gallon Dendromecon harfordii - Island Bush Poppy	12.32	
32 93 33 00-0166 EA 5 Gallon Dendromecon harfordii - Island Bush Poppy	30.80	
32 93 33 00-0167 EA 18" B&B Deutzia gracilis - Slender Deutzia	40.80	
32 93 33 00-0168 EA 24" B&B Deutzia gracilis - Slender Deutzia	44.80	
32 93 33 00-0169 EA 30" B&B Deutzia gracilis - Slender Deutzia	57.60	
32 93 33 00-0170 EA 36" B&B Deutzia gracilis - Slender Deutzia	67.20	
32 93 33 00-0171 EA 42" B&B Deutzia gracilis - Slender Deutzia	76.80	
32 93 33 00-0172 EA 24" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	64.00	
32 93 33 00-0173 EA 30" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	76.80	
32 93 33 00-0174 EA 36" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	89.60	
32 93 33 00-0175 EA 2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	24.00	
32 93 33 00-0176 EA 36" B&B Diervilla splendens - Splendens Bush Honeysuckle	57.60	
32 93 33 00-0177 EA 48" B&B Diervilla splendens - Splendens Bush Honeysuckle	76.80	
32 93 33 00-0178 EA 5 Gallon Elaeagnus angustifolia - Russian Olive	13.23	
32 93 33 00-0179 EA 1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	5.35	
32 93 33 00-0180 EA 5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	13.23	
32 93 33 00-0181 EA 15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	52.53	
32 93 33 00-0182 EA 1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	5.35	
32 93 33 00-0183 EA 5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	13.23	
32 93 33 00-0184 EA 15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	52.53	
32 93 33 00-0185 EA 3' To 4' Elaeagnus umbellata - Autumn Olive	47.78	
32 93 33 00-0186 EA 4' To 5' Elaeagnus umbellata - Autumn Olive	65.66	
32 93 33 00-0187 EA 5' To 6' Elaeagnus umbellata - Autumn Olive	78.55	
32 93 33 00-0188 EA 3' To 4' Elaeagnus angustifolia - Russian Olive	76.49	
32 93 33 00-0189 EA 1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	5.35	
32 93 33 00-0190 EA 5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	13.23	
32 93 33 00-0191 EA 15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	52.53	
32 93 33 00-0192 EA 1 Gallon Euonymus - Gold Spot	13.75	
32 93 33 00-0193 EA 2 Gallon Euonymus - Gold Spot	28.88	
32 93 33 00-0194 EA 5 Gallon Euonymus - Gold Spot	39.71	
32 93 33 00-0195 EA 1 Gallon Euonymus alatus - Winged Euonymus	11.74	
32 93 33 00-0196 EA 3 Gallon Euonymus alatus - Winged Euonymus	33.86	
32 93 33 00-0197 EA 24" B&B Euonymus alatus - Winged Euonymus	45.63	
32 93 33 00-0198 EA 30" B&B Euonymus alatus - Winged Euonymus	57.04	
32 93 33 00-0199 EA 36" B&B Euonymus alatus - Winged Euonymus	78.38	
32 93 33 00-0200 EA 42" B&B Euonymus alatus - Winged Euonymus	96.78	
32 93 33 00-0201 EA 48" B&B Euonymus alatus - Winged Euonymus	114.08	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0202	EA	54" B&B Euonymus alatus - Winged Euonymus	147.20
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	42.32
32 93 33 00-0204	EA	60" B&B Euonymus alatus - Winged Euonymus	184.00
32 93 33 00-0205	EA	30" B&B Euonymus alatus compactus - Compact Winged Euonymus	72.00
32 93 33 00-0206	EA	36" B&B Euonymus alatus compactus - Compact Winged Euonymus	85.60
32 93 33 00-0207	EA	42" B&B Euonymus alatus compactus - Compact Winged Euonymus	112.00
32 93 33 00-0208	EA	48" B&B Euonymus alatus compactus - Compact Winged Euonymus	134.40
32 93 33 00-0209	EA	60" B&B Euonymus alatus compactus - Compact Winged Euonymus	166.40
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	51.05
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	60.16
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	82.16
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	98.49
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	123.92
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	174.97
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	218.80
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	255.24
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	51.05
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	58.27
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	71.16
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	100.38
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	118.60
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	142.14
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	200.58
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	237.02
32 93 33 00-0226	EA	36" B&B Euonymus atropurpurea - Eastern Wahoo	43.20
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	16.50
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	32.49
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper	39.71
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper	47.10
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle	5.35
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle	13.23
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle	52.53
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia	36.44
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia	46.06
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia	57.41
32 93 33 00-0237	EA	30" B&B Forsythia cvs - Forsythia cultivars	36.80
32 93 33 00-0238	EA	36" B&B Forsythia cvs - Forsythia cultivars	40.80
32 93 33 00-0239	EA	48" B&B Forsythia cvs - Forsythia cultivars	44.00
32 93 33 00-0240	EA	18" B&B Forsythia viridissima & cvs - Green Forsythia	38.40
32 93 33 00-0241	EA	24" B&B Forsythia viridissima & cvs - Green Forsythia	51.20
32 93 33 00-0242	EA	24" B&B Forsythia x intermedia & cvs - Border Forsythia	38.40
32 93 33 00-0243	EA	30" B&B Forsythia x intermedia & cvs - Border Forsythia	44.80
32 93 33 00-0244	EA	36" B&B Forsythia x intermedia & cvs - Border Forsythia	52.80
32 93 33 00-0245	EA	42" B&B Forsythia x intermedia & cvs - Border Forsythia	60.80
32 93 33 00-0246	EA	48" B&B Forsythia x intermedia & cvs - Border Forsythia	70.40
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	54.40
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	76.00
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	80.00
32 93 33 00-0250	EA	15" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	83.20
32 93 33 00-0251	EA	18" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	89.60
32 93 33 00-0252	EA	24" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	108.80
32 93 33 00-0253	EA	24" B&B Fothergilla major - Large Fothergilla	140.80
32 93 33 00-0254	EA	30" B&B Fothergilla major - Large Fothergilla	160.00
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine	11.86
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine	31.11
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine	39.71
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea	5.35
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea	13.23
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea	52.53
32 93 33 00-0261	EA	36" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	112.00
32 93 33 00-0262	EA	48" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	182.40
32 93 33 00-0263	EA	60" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	230.39
32 93 33 00-0264	EA	72" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	351.99
32 93 33 00-0265	EA	84" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	399.99
32 93 33 00-0266	EA	1 Gallon Hedychiium gartdnerum - Variegated Ginger	6.81
32 93 33 00-0267	EA	3 Gallon Hedychiium gartdnerum - Variegated Ginger	23.92
32 93 33 00-0268	EA	5 Gallon Hedychiium gartdnerum - Variegated Ginger	46.00
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	17.44
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	29.44
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	44.53
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	46.06
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	39.19
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	52.94
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	76.49
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	105.71
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	32.49
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	45.72
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	51.05
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	58.27
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	32.49
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	56.00





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0283	EA		30" B&B Hydrangea arborescens & cvs - Smooth Hydrangea.....	60.80	
32 93 33 00-0284	EA		36" B&B Hydrangea arborescens & cvs - Smooth Hydrangea.....	70.40	
32 93 33 00-0285	EA		4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	73.60	
32 93 33 00-0286	EA		18" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	57.60	
32 93 33 00-0287	EA		24" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	76.80	
32 93 33 00-0288	EA		3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	33.60	
32 93 33 00-0289	EA		5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	40.00	
32 93 33 00-0290	EA		18" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	34.40	
32 93 33 00-0291	EA		24" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	36.80	
32 93 33 00-0292	EA		30" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	41.60	
32 93 33 00-0293	EA		36" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	48.00	
32 93 33 00-0294	EA		48" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	64.00	
32 93 33 00-0295	EA		18" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	46.40	
32 93 33 00-0296	EA		24" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	52.80	
32 93 33 00-0297	EA		30" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	62.40	
32 93 33 00-0298	EA		2 Gallon Hypericum kalmianum - St. John's Wort.....	32.49	
32 93 33 00-0299	EA		3 Gallon Hypericum kalmianum - Kalm St. John's Wort.....	38.40	
32 93 33 00-0300	EA		24" B&B Hypericum kalmianum - Kalm St. John's Wort.....	41.60	
32 93 33 00-0301	EA		1 Gallon Ilex "Carissa" - Holly.....	16.50	
32 93 33 00-0302	EA		2 Gallon Ilex "Carissa" - Holly.....	32.49	
32 93 33 00-0303	EA		5 Gallon Ilex "Carissa" - Holly.....	45.72	
32 93 33 00-0304	EA		18" To 24" Ilex - Gulf tide Sweet Holly.....	43.83	
32 93 33 00-0305	EA		2' To 2-1/2' Ilex - Gulf tide Sweet Holly.....	55.52	
32 93 33 00-0306	EA		2-1/2' To 3' Ilex - Gulf tide Sweet Holly.....	72.02	
32 93 33 00-0307	EA		3' To 3-1/2' Ilex - Gulf tide Sweet Holly.....	87.49	
32 93 33 00-0308	EA		3 Gallon Ilex cornuta - Dwarf Horned Holly.....	32.74	
32 93 33 00-0309	EA		1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	16.50	
32 93 33 00-0310	EA		2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	32.49	
32 93 33 00-0311	EA		5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	47.10	
32 93 33 00-0312	EA		1 Gallon Ilex crenata - Hellers Japanese Holly.....	16.50	
32 93 33 00-0313	EA		2 Gallon Ilex crenata - Hellers Japanese Holly.....	36.10	
32 93 33 00-0314	EA		3 Gallon Ilex crenata - Hellers Japanese Holly.....	47.10	
32 93 33 00-0315	EA		2 Gallon Ilex crenata - Hetzi Japanese Holly.....	36.09	
32 93 33 00-0316	EA		3 Gallon Ilex crenata - Hetzi Japanese Holly.....	43.49	
32 93 33 00-0317	EA		2' To 3' Ilex crenata - Hetzi Japanese Holly.....	87.49	
32 93 33 00-0318	EA		3' To 4' Ilex crenata - Hetzi Japanese Holly.....	116.71	
32 93 33 00-0319	EA		2' To 3' Ilex opaca - American Holly.....	116.71	
32 93 33 00-0320	EA		3' To 4' Ilex opaca - American Holly.....	193.19	
32 93 33 00-0321	EA		4' To 5' Ilex opaca - American Holly.....	247.85	
32 93 33 00-0322	EA		5' To 6' Ilex opaca - American Holly.....	298.90	
32 93 33 00-0323	EA		6' To 7' Ilex opaca - American Holly.....	419.21	
32 93 33 00-0324	EA		7' To 8' Ilex opaca - American Holly.....	583.36	
32 93 33 00-0325	EA		8' To 10' Ilex opaca - American Holly.....	838.43	
32 93 33 00-0326	EA		10' To 12' Ilex opaca - American Holly.....	1,276.03	
32 93 33 00-0327	EA		12' To 14' Ilex opaca - American Holly.....	1,549.32	
32 93 33 00-0328	EA		14' To 16' Ilex opaca - American Holly.....	1,913.88	
32 93 33 00-0329	EA		2' To 3' Ilex verticillata - Winterberry (Female).....	116.71	
32 93 33 00-0330	EA		3' To 4' Ilex verticillata - Winterberry (Female).....	153.14	
32 93 33 00-0331	EA		2' To 3' Ilex verticillata - Winterberry (Male).....	94.71	
32 93 33 00-0332	EA		3' To 4' Ilex verticillata - Winterberry (Male).....	131.32	
32 93 33 00-0333	EA		4' To 5' Ilex verticillata - Winterberry (Male).....	153.14	
32 93 33 00-0334	EA		1 Gallon Ilex vomitoria - Yaupon Holly.....	15.47	
32 93 33 00-0335	EA		3 Gallon Ilex vomitoria - Yaupon Holly.....	31.11	
32 93 33 00-0336	EA		10 Gallon Ilex vomitoria - Yaupon Holly.....	109.32	
32 93 33 00-0337	EA		18" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly.....	49.60	
32 93 33 00-0338	EA		24" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly.....	56.00	
32 93 33 00-0339	EA		3 Gallon Ilex meserveae & cvs - Blue Holly.....	64.00	
32 93 33 00-0340	EA		18" B&B Ilex meserveae & cvs - Blue Holly.....	59.20	
32 93 33 00-0341	EA		24" B&B Ilex meserveae & cvs - Blue Holly.....	72.00	
32 93 33 00-0342	EA		5 Gallon Ilex verticillata & cvs - Common Winterberry.....	52.80	
32 93 33 00-0343	EA		24" B&B Ilex verticillata & cvs - Common Winterberry.....	52.80	
32 93 33 00-0344	EA		30" B&B Ilex verticillata & cvs - Common Winterberry.....	56.00	
32 93 33 00-0345	EA		36" B&B Ilex verticillata & cvs - Common Winterberry.....	67.20	
32 93 33 00-0346	EA		42" B&B Ilex verticillata & cvs - Common Winterberry.....	75.20	
32 93 33 00-0347	EA		48" B&B Ilex verticillata & cvs - Common Winterberry.....	80.00	
32 93 33 00-0348	EA		60" B&B Ilex verticillata & cvs - Common Winterberry.....	102.40	
32 93 33 00-0349	EA		4' To 5' Ilex x attenuata "Foster" - Holly.....	189.58	
32 93 33 00-0350	EA		5' To 6' Ilex x attenuata "Foster" - Holly.....	251.46	
32 93 33 00-0351	EA		6' To 7' Ilex x attenuata "Foster" - Holly.....	224.99	
32 93 33 00-0352	EA		7' To 8' Ilex x attenuata "Foster" - Holly.....	437.43	
32 93 33 00-0353	EA		1 Gallon Jasminum - Jasmine.....	4.23	
32 93 33 00-0354	EA		3 Gallon Jasminum - Jasmine.....	16.56	
32 93 33 00-0355	EA		3 Gallon Jasminum - Orange Jasmine.....	12.88	
32 93 33 00-0356	EA		4' - 5' Jasminum - Orange Jasmine.....	147.20	
32 93 33 00-0357	EA		6' - 7' Jasminum - Orange Jasmine.....	294.39	
32 93 33 00-0358	EA		8' - 10' Jasminum - Orange Jasmine.....	397.43	
32 93 33 00-0359	EA		3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	56.00	
32 93 33 00-0360	EA		5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	62.40	
32 93 33 00-0361	EA		18" B&B Juniperus chinensis cvs - Chinese Juniper.....	83.20	
32 93 33 00-0362	EA		24" B&B Juniperus chinensis cvs - Chinese Juniper.....	108.80	
32 93 33 00-0363	EA		30" B&B Juniperus chinensis cvs - Chinese Juniper.....	128.00	



**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0364	EA	36" B&B Juniperus chinensis cvs - Chinese Juniper	172.80	
32 93 33 00-0365	EA	48" B&B Juniperus chinensis cvs - Chinese Juniper	236.79	
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper	26.68	
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper	56.00	
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper	62.40	
32 93 33 00-0369	EA	15" B&B Juniperus horizontalis cvs - Creeping Juniper	67.20	
32 93 33 00-0370	EA	18" B&B Juniperus horizontalis cvs - Creeping Juniper	73.60	
32 93 33 00-0371	EA	24" B&B Juniperus horizontalis cvs - Creeping Juniper	89.60	
32 93 33 00-0372	EA	30" B&B Juniperus horizontalis cvs - Creeping Juniper	108.80	
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper	43.20	
32 93 33 00-0374	EA	18" B&B Juniperus procumbens cvs - Japanese Garden Juniper	51.20	
32 93 33 00-0375	EA	24" B&B Juniperus procumbens cvs - Japanese Garden Juniper	70.40	
32 93 33 00-0376	EA	30" B&B Juniperus procumbens cvs - Japanese Garden Juniper	89.60	
32 93 33 00-0377	EA	36" B&B Juniperus procumbens cvs - Japanese Garden Juniper	108.80	
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper	40.00	
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper	48.00	
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	41.60	
32 93 33 00-0381	EA	36" B&B Juniperus virginiana cvs - Red Cedar Juniper	80.00	
32 93 33 00-0382	EA	48" B&B Juniperus virginiana cvs - Red Cedar Juniper	124.80	
32 93 33 00-0383	EA	60" B&B Juniperus virginiana cvs - Red Cedar Juniper	156.80	
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel	65.66	
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel	87.49	
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel	127.53	
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel	233.24	
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel	357.34	
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel	546.92	
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria	14.61	
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria	45.72	
32 93 33 00-0392	EA	24" B&B Kolkwitzia amabilis & cvs - Beautybush	46.40	
32 93 33 00-0393	EA	30" B&B Kolkwitzia amabilis & cvs - Beautybush	52.80	
32 93 33 00-0394	EA	36" B&B Kolkwitzia amabilis & cvs - Beautybush	57.60	
32 93 33 00-0395	EA	42" B&B Kolkwitzia amabilis & cvs - Beautybush	67.20	
32 93 33 00-0396	EA	48" B&B Kolkwitzia amabilis & cvs - Beautybush	76.80	
32 93 33 00-0397	EA	60" B&B Kolkwitzia amabilis & cvs - Beautybush	96.00	
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	11.00	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	39.19	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	54.66	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	80.27	
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle	127.53	
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle	165.60	
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle	220.79	
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	459.99	
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	16.50	
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	36.10	
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	43.49	
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet	10.14	
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet	31.11	
32 93 33 00-0411	EA	15 Gallon Ligustrum lucidum - Glossy Privet	145.75	
32 93 33 00-0412	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet	10.14	
32 93 33 00-0413	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet	21.83	
32 93 33 00-0414	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet	28.36	
32 93 33 00-0415	EA	36" B&B Ligustrum vulgare & cvs - Common Privet	48.00	
32 93 33 00-0416	EA	48" B&B Ligustrum vulgare & cvs - Common Privet	70.40	
32 93 33 00-0417	EA	60" B&B Ligustrum vulgare & cvs - Common Privet	89.60	
32 93 33 00-0418	EA	72" B&B Ligustrum vulgare & cvs - Common Privet	102.40	
32 93 33 00-0419	EA	5 Gallon Lindera benzoin - Spicebush	52.80	
32 93 33 00-0420	EA	36" B&B Lindera benzoin - Spicebush	44.80	
32 93 33 00-0421	EA	48" B&B Lindera benzoin - Spicebush	54.40	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle	87.49	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle	105.71	
32 93 33 00-0424	EA	30" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	48.00	
32 93 33 00-0425	EA	36" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	57.60	
32 93 33 00-0426	EA	42" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	64.00	
32 93 33 00-0427	EA	48" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	70.40	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle	9.20	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle	29.44	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle	64.40	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle	95.68	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle	147.20	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle	441.59	
32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle	12.88	
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle	44.16	
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle	80.96	
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle	110.40	
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle	147.20	
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle	224.47	
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry	48.00	
32 93 33 00-0441	EA	24" B&B Myrica pensylvanica - Northern Bayberry	78.40	
32 93 33 00-0442	EA	30" B&B Myrica pensylvanica - Northern Bayberry	115.20	
32 93 33 00-0443	EA	36" B&B Myrica pensylvanica - Northern Bayberry	137.60	
32 93 33 00-0444	EA	48" B&B Myrica pensylvanica - Northern Bayberry	144.00	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0445	EA	1	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	5.35	
32 93 33 00-0446	EA	5	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	13.23	
32 93 33 00-0447	EA	15	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	52.53	
32 93 33 00-0448	EA	1	1 Gallon Nandina domestica - Heavenly Bamboo.....	16.50	
32 93 33 00-0449	EA	2	2 Gallon Nandina domestica - Heavenly Bamboo.....	36.10	
32 93 33 00-0450	EA	5	5 Gallon Nandina domestica - Heavenly Bamboo.....	54.66	
32 93 33 00-0451	EA	15	15 Gallon Nerium oleander - Oleander.....	57.48	
32 93 33 00-0452	EA	24	24" Box Nerium oleander - Oleander.....	206.57	
32 93 33 00-0453	EA	1	1 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	10.14	
32 93 33 00-0454	EA	3	3 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	27.50	
32 93 33 00-0455	EA	1	1 Gallon Philadelphus - Evergreen Mockorange.....	14.09	
32 93 33 00-0456	EA	5	5 Gallon Philadelphus - Evergreen Mockorange.....	45.72	
32 93 33 00-0457	EA	36	36" B&B Philadelphus x virginialis & cvs - Mockorange.....	48.00	
32 93 33 00-0458	EA	42	42" B&B Philadelphus x virginialis & cvs - Mockorange.....	56.00	
32 93 33 00-0459	EA	48	48" B&B Philadelphus x virginialis & cvs - Mockorange.....	64.00	
32 93 33 00-0460	EA	1	1 Gallon Photinia fraseri - Red-Tipped Photinia.....	5.35	
32 93 33 00-0461	EA	5	5 Gallon Photinia fraseri - Red-Tipped Photinia.....	13.23	
32 93 33 00-0462	EA	15	15 Gallon Photinia fraseri - Red-Tipped Photinia.....	52.53	
32 93 33 00-0463	EA	1	1 Gallon Phormium tenax - New Zealand Flax.....	5.64	
32 93 33 00-0464	EA	5	5 Gallon Phormium tenax - New Zealand Flax.....	13.52	
32 93 33 00-0465	EA	15	15 Gallon Phormium tenax - New Zealand Flax.....	57.48	
32 93 33 00-0466	EA	24	24" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	48.00	
32 93 33 00-0467	EA	30	30" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	56.00	
32 93 33 00-0468	EA	36	36" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	64.00	
32 93 33 00-0469	EA	42	42" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	80.00	
32 93 33 00-0470	EA	48	48" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	96.00	
32 93 33 00-0471	EA	12	12" To 15" Spread Pieris - Mountain Andromeda.....	44.17	
32 93 33 00-0472	EA	15	15" To 18" Spread Pieris - Mountain Andromeda.....	94.71	
32 93 33 00-0473	EA	12	12" To 15" Pieris japonica - Japanese Andromeda.....	57.41	
32 93 33 00-0474	EA	15	15" To 18" Pieris japonica - Japanese Andromeda.....	65.66	
32 93 33 00-0475	EA	18	18" To 24" Pieris japonica - Japanese Andromeda.....	82.16	
32 93 33 00-0476	EA	2	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	116.71	
32 93 33 00-0477	EA	2-1/2	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	138.54	
32 93 33 00-0478	EA	24	24" B&B Pinus mugo & cvs - Mugo Pine.....	40.73	
32 93 33 00-0479	EA	30	30" B&B Pinus mugo & cvs - Mugo Pine.....	52.13	
32 93 33 00-0480	EA	36	36" B&B Pinus mugo & cvs - Mugo Pine.....	62.72	
32 93 33 00-0481	EA	48	48" B&B Pinus mugo & cvs - Mugo Pine.....	80.64	
32 93 33 00-0482	EA	60	60" B&B Pinus mugo & cvs - Mugo Pine.....	96.93	
32 93 33 00-0483	EA	72	72" B&B Pinus mugo & cvs - Mugo Pine.....	141.73	
32 93 33 00-0484	EA	30	30" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	87.97	
32 93 33 00-0485	EA	36	36" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	105.89	
32 93 33 00-0486	EA	48	48" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	140.91	
32 93 33 00-0487	EA	1	1 Gallon Pittosporum - Pittosporum.....	6.07	
32 93 33 00-0488	EA	3	3 Gallon Pittosporum - Pittosporum.....	15.64	
32 93 33 00-0489	EA	1	1 Gallon Pittosporum - Varigated Pittosporum.....	6.07	
32 93 33 00-0490	EA	3	3 Gallon Pittosporum - Varigated Pittosporum.....	15.64	
32 93 33 00-0491	EA	5	5 Gallon Pittosporum - Varigated Pittosporum.....	27.42	
32 93 33 00-0492	EA	1	1 Gallon Pittosporum eugenioides - Lemonwood.....	6.15	
32 93 33 00-0493	EA	5	5 Gallon Pittosporum eugenioides - Lemonwood.....	14.56	
32 93 33 00-0494	EA	1	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	5.35	
32 93 33 00-0495	EA	5	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	13.23	
32 93 33 00-0496	EA	15	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	52.53	
32 93 33 00-0497	EA	2	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	27.20	
32 93 33 00-0498	EA	5	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	38.40	
32 93 33 00-0499	EA	18	18" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	28.80	
32 93 33 00-0500	EA	24	24" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	32.00	
32 93 33 00-0501	EA	30	30" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	46.40	
32 93 33 00-0502	EA	36	36" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	53.60	
32 93 33 00-0503	EA	1	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	5.60	
32 93 33 00-0504	EA	5	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	14.00	
32 93 33 00-0505	EA	15	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	83.48	
32 93 33 00-0506	EA	15	15" To 18" Prunus laurocerasus - Cherry Laurel.....	21.35	
32 93 33 00-0507	EA	18	18" To 24" Prunus laurocerasus - Cherry Laurel.....	26.43	
32 93 33 00-0508	EA	24	24" To 30" Prunus laurocerasus - Cherry Laurel.....	34.39	
32 93 33 00-0509	EA	15	15" To 18" Prunus triloba - Double White Flowering Almond.....	19.08	
32 93 33 00-0510	EA	18	18" To 24" Prunus triloba - Double White Flowering Almond.....	24.41	
32 93 33 00-0511	EA	3	3' To 4' Prunus triloba - Double White Flowering Almond.....	38.94	
32 93 33 00-0512	EA	4	4' To 6' Prunus triloba - Double White Flowering Almond.....	77.96	
32 93 33 00-0513	EA	5	5 Gallon Prunus triloba - Pink Flowering Almond.....	23.45	
32 93 33 00-0514	EA	18	18" To 24" Prunus triloba - Pink Flowering Almond.....	26.34	
32 93 33 00-0515	EA	2	2' To 3' Prunus triloba - Pink Flowering Almond.....	30.63	
32 93 33 00-0516	EA	2	2' To 3' Prunus virginiana - Brilliant Chokeberry.....	20.83	
32 93 33 00-0517	EA	3	3' To 4' Prunus virginiana - Brilliant Chokeberry.....	25.55	
32 93 33 00-0518	EA	4	4' To 5' Prunus virginiana - Brilliant Chokeberry.....	30.63	
32 93 33 00-0519	EA	5	5' To 6' Prunus virginiana - Brilliant Chokeberry.....	35.09	
32 93 33 00-0520	EA	1	1 Gallon Punica granatum - Dwarf Pomegranate.....	10.83	
32 93 33 00-0521	EA	3	3 Gallon Punica granatum - Dwarf Pomegranate.....	31.97	
32 93 33 00-0522	EA	7	7 Gallon Punica granatum - Dwarf Pomegranate.....	65.66	
32 93 33 00-0523	EA	1	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	13.75	
32 93 33 00-0524	EA	5	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	45.72	
32 93 33 00-0525	EA	5	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	94.71	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0526	EA	1 Gallon Ralphialepis indica - Indian Hawthorne	11.00	
32 93 33 00-0527	EA	2 Gallon Ralphialepis indica - Indian Hawthorne	20.97	
32 93 33 00-0528	EA	5 Gallon Ralphialepis indica - Indian Hawthorne	37.30	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	16.72	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	47.81	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	143.49	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	83.88	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	114.99	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	149.53	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	273.46	
32 93 33 00-0536	EA	1 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	5.70	
32 93 33 00-0537	EA	5 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	13.52	
32 93 33 00-0538	EA	15 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	57.48	
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	17.88	
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	36.09	
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	47.10	
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	54.66	
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	63.94	
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	80.27	
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	116.71	
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	163.97	
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	20.11	
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	36.09	
32 93 33 00-0549	EA	15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	62.05	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	80.27	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	116.71	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	171.36	
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	229.63	
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azalea	45.72	
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azalea	163.97	
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	51.74	
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	91.10	
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	134.93	
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea	61.36	
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea	80.27	
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea	105.71	
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea	61.36	
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea	76.49	
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea	123.92	
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea	171.36	
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea	229.63	
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea	306.29	
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron	20.11	
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron	43.49	
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron	61.70	
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron	68.92	
32 93 33 00-0572	EA	15" To 18" Rhododendron - Hybrid Rhododendron	58.27	
32 93 33 00-0573	EA	18" To 24" Rhododendron - Hybrid Rhododendron	80.27	
32 93 33 00-0574	EA	24" To 30" Rhododendron - Hybrid Rhododendron	109.32	
32 93 33 00-0575	EA	30" To 36" Rhododendron - Hybrid Rhododendron	127.53	
32 93 33 00-0576	EA	36" To 42" Rhododendron - Hybrid Rhododendron	182.36	
32 93 33 00-0577	EA	42" To 48" Rhododendron - Hybrid Rhododendron	226.02	
32 93 33 00-0578	EA	15" To 18" Rhododendron - Pjm Rhododendron	65.66	
32 93 33 00-0579	EA	18" To 24" Rhododendron - Pjm Rhododendron	80.27	
32 93 33 00-0580	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	116.71	
32 93 33 00-0581	EA	2-1/2' To 3' Rhododendron - Pjm Rhododendron	149.53	
32 93 33 00-0582	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	182.36	
32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea	51.05	
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea	61.36	
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea	76.49	
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea	127.53	
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	57.60	
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	70.40	
32 93 33 00-0589	EA	18" B&B Rhododendron cvs - Lepidote Rhododendron	86.40	
32 93 33 00-0590	EA	24" B&B Rhododendron cvs - Lepidote Rhododendron	108.80	
32 93 33 00-0591	EA	30" B&B Rhododendron cvs - Lepidote Rhododendron	128.00	
32 93 33 00-0592	EA	36" B&B Rhododendron cvs - Lepidote Rhododendron	153.60	
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	16.50	
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	45.72	
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	38.40	
32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac	52.80	
32 93 33 00-0597	EA	18" B&B Rhus aromatica & cvs - Fragrant Sumac	60.80	
32 93 33 00-0598	EA	24" B&B Rhus aromatica & cvs - Fragrant Sumac	80.00	
32 93 33 00-0599	EA	36" B&B Rhus glabra - Smooth Sumac	48.00	
32 93 33 00-0600	EA	48" B&B Rhus typhina & cvs - Staghorn Sumac	80.00	
32 93 33 00-0601	EA	72" B&B Rhus typhina & cvs - Staghorn Sumac	128.00	
32 93 33 00-0602	EA	15" B&B Ribes alpinum & cvs - Alpine Currant	43.20	
32 93 33 00-0603	EA	18" B&B Ribes alpinum & cvs - Alpine Currant	49.60	
32 93 33 00-0604	EA	24" B&B Ribes alpinum & cvs - Alpine Currant	72.00	
32 93 33 00-0605	EA	30" B&B Ribes alpinum & cvs - Alpine Currant	96.00	
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose	26.40	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0607	EA	2	Gallon Rosa hybrids & cvs - Shrub Rose	32.00	
32 93 33 00-0608	EA	3	Gallon Rosa hybrids & cvs - Shrub Rose	40.00	
32 93 33 00-0609	EA	2	Gallon Rosa rugosa & cvs - Rugosa Rose	28.80	
32 93 33 00-0610	EA	3	Gallon Rosa rugosa & cvs - Rugosa Rose	36.80	
32 93 33 00-0611	EA	5	Gallon Sambucus canadensis - American Elder	52.80	
32 93 33 00-0612	EA	1	Gallon Santolina chamaecyparissus - Lavender Cotton	5.35	
32 93 33 00-0613	EA	5	Gallon Santolina chamaecyparissus - Lavender Cotton	13.23	
32 93 33 00-0614	EA	1	Gallon Santolina rosmarinifolia - Green Lavender Cotton	5.35	
32 93 33 00-0615	EA	5	Gallon Santolina rosmarinifolia - Green Lavender Cotton	13.23	
32 93 33 00-0616	EA	2	Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	23.72	
32 93 33 00-0617	EA	3	Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	34.72	
32 93 33 00-0618	EA	1	Gallon Sarcococca humilis - Fragrant Sarcococca	12.89	
32 93 33 00-0619	EA	5	Gallon Sarcococca humilis - Fragrant Sarcococca	33.69	
32 93 33 00-0620	EA	5	Gallon Senna artemisioides - Feathery Cassia	14.78	
32 93 33 00-0621	EA	15	Gallon Senna artemisioides - Feathery Cassia	58.82	
32 93 33 00-0622	EA	24"	Box Senna artemisioides - Feathery Cassia	184.77	
32 93 33 00-0623	EA	1	Gallon Skimmia japonica - Japanese Skimmia	16.50	
32 93 33 00-0624	EA	2	Gallon Skimmia japonica - Japanese Skimmia	32.83	
32 93 33 00-0625	EA	5	Gallon Skimmia japonica - Japanese Skimmia	52.94	
32 93 33 00-0626	EA	1	Gallon Sollya fusiformis - Bluebell Creeper	5.35	
32 93 33 00-0627	EA	5	Gallon Sollya fusiformis - Bluebell Creeper	13.23	
32 93 33 00-0628	EA	3'	To 4' Spiraea - Garland Spirea	76.49	
32 93 33 00-0629	EA	4'	To 5' Spiraea - Garland Spirea	116.71	
32 93 33 00-0630	EA	5	Gallon Spiraea - Snowmound Spirea	45.72	
32 93 33 00-0631	EA	18"	To 24" Spiraea - Snowmound Spirea	37.47	
32 93 33 00-0632	EA	2'	To 3' Spiraea - Snowmound Spirea	52.94	
32 93 33 00-0633	EA	3'	To 4' Spiraea - Snowmound Spirea	61.36	
32 93 33 00-0634	EA	4'	To 5' Spiraea - Snowmound Spirea	105.71	
32 93 33 00-0635	EA	1	Gallon Spiraea japonica & cvs - Japanese Spirea	16.50	
32 93 33 00-0636	EA	2	Gallon Spiraea japonica & cvs - Japanese Spirea	32.49	
32 93 33 00-0637	EA	3	Gallon Spiraea japonica & cvs - Japanese Spirea	37.60	
32 93 33 00-0638	EA	5	Gallon Spiraea japonica & cvs - Japanese Spirea	40.80	
32 93 33 00-0639	EA	18"	B&B Spiraea japonica & cvs - Japanese Spirea	41.60	
32 93 33 00-0640	EA	24"	B&B Spiraea japonica & cvs - Japanese Spirea	48.00	
32 93 33 00-0641	EA	30"	B&B Spiraea japonica & cvs - Japanese Spirea	54.40	
32 93 33 00-0642	EA	36"	B&B Spiraea japonica & cvs - Japanese Spirea	63.20	
32 93 33 00-0643	EA	2	Gallon Spiraea nipponica & cvs - Nippon Spirea	25.60	
32 93 33 00-0644	EA	5	Gallon Spiraea nipponica & cvs - Nippon Spirea	38.40	
32 93 33 00-0645	EA	18"	B&B Spiraea nipponica & cvs - Nippon Spirea	35.20	
32 93 33 00-0646	EA	24"	B&B Spiraea nipponica & cvs - Nippon Spirea	41.60	
32 93 33 00-0647	EA	30"	B&B Spiraea nipponica & cvs - Nippon Spirea	48.00	
32 93 33 00-0648	EA	36"	B&B Spiraea nipponica & cvs - Nippon Spirea	54.40	
32 93 33 00-0649	EA	48"	B&B Spiraea nipponica & cvs - Nippon Spirea	70.40	
32 93 33 00-0650	EA	1	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	16.50	
32 93 33 00-0651	EA	2	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	29.60	
32 93 33 00-0652	EA	4	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	38.40	
32 93 33 00-0653	EA	18"	B&B Spiraea x bumalda & cvs - Bumalda Spirea	33.60	
32 93 33 00-0654	EA	24"	B&B Spiraea x bumalda & cvs - Bumalda Spirea	40.80	
32 93 33 00-0655	EA	30"	B&B Spiraea x bumalda & cvs - Bumalda Spirea	48.00	
32 93 33 00-0656	EA	36"	B&B Spiraea x bumalda & cvs - Bumalda Spirea	54.40	
32 93 33 00-0657	EA	5	Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0658	EA	18"	B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0659	EA	24"	B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	44.80	
32 93 33 00-0660	EA	30"	B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	60.80	
32 93 33 00-0661	EA	36"	B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	70.40	
32 93 33 00-0662	EA	42"	B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	83.20	
32 93 33 00-0663	EA	5	Gallon Staphylea trifolia - Bladdernut	54.01	
32 93 33 00-0664	EA	2	Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra	38.40	
32 93 33 00-0665	EA	5	Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra	41.60	
32 93 33 00-0666	EA	24"	B&B Stephanandra incisa & cvs - Cutleaf Stephanandra	48.00	
32 93 33 00-0667	EA	30"	B&B Stephanandra incisa & cvs - Cutleaf Stephanandra	57.60	
32 93 33 00-0668	EA	2	Gallon Symphoricarpos albus - Common Snowberry	40.00	
32 93 33 00-0669	EA	5	Gallon Symphoricarpos albus - Common Snowberry	42.40	
32 93 33 00-0670	EA	24"	B&B Syringa meyeri & cvs - Meyer Lilac	70.40	
32 93 33 00-0671	EA	30"	B&B Syringa meyeri & cvs - Meyer Lilac	88.00	
32 93 33 00-0672	EA	36"	B&B Syringa meyeri & cvs - Meyer Lilac	102.40	
32 93 33 00-0673	EA	42"	B&B Syringa meyeri & cvs - Meyer Lilac	118.40	
32 93 33 00-0674	EA	18"	B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	70.40	
32 93 33 00-0675	EA	24"	B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	76.80	
32 93 33 00-0676	EA	30"	B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	88.00	
32 93 33 00-0677	EA	36"	B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	102.40	
32 93 33 00-0678	EA	42"	B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	118.40	
32 93 33 00-0679	EA	60"	B&B Syringa villosa & cvs - Late Lilac	56.00	
32 93 33 00-0680	EA	72"	B&B Syringa villosa & cvs - Late Lilac	60.80	
32 93 33 00-0681	EA	36"	B&B Syringa vulgaris & cvs - Common Lilac	48.00	
32 93 33 00-0682	EA	42"	B&B Syringa vulgaris & cvs - Common Lilac	54.40	
32 93 33 00-0683	EA	48"	B&B Syringa vulgaris & cvs - Common Lilac	60.80	
32 93 33 00-0684	EA	60"	B&B Syringa vulgaris & cvs - Common Lilac	70.40	
32 93 33 00-0685	EA	72"	B&B Syringa vulgaris & cvs - Common Lilac	86.40	
32 93 33 00-0686	EA	5	Gallon Syringa x chinensis & cvs - Chinese Lilac	40.00	
32 93 33 00-0687	EA	36"	B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	46.40	



**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0688	EA	48" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	60.80	
32 93 33 00-0689	EA	48" B&B Taxus cuspidata capitata - Capitata Japanese Yew	254.39	
32 93 33 00-0690	EA	54" B&B Taxus cuspidata capitata - Capitata Japanese Yew	284.79	
32 93 33 00-0691	EA	60" B&B Taxus cuspidata capitata - Capitata Japanese Yew	313.59	
32 93 33 00-0692	EA	72" B&B Taxus cuspidata capitata - Capitata Japanese Yew	377.59	
32 93 33 00-0693	EA	18" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	67.20	
32 93 33 00-0694	EA	24" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	88.00	
32 93 33 00-0695	EA	30" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	102.40	
32 93 33 00-0696	EA	36" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	112.00	
32 93 33 00-0697	EA	15" B&B Taxus x media & cvs - Anglojap Yew	67.20	
32 93 33 00-0698	EA	18" B&B Taxus x media & cvs - Anglojap Yew	88.00	
32 93 33 00-0699	EA	24" B&B Taxus x media & cvs - Anglojap Yew	104.00	
32 93 33 00-0700	EA	30" B&B Taxus x media & cvs - Anglojap Yew	123.20	
32 93 33 00-0701	EA	36" B&B Taxus x media & cvs - Anglojap Yew	185.60	
32 93 33 00-0702	EA	36" B&B Thuja occidentalis & cvs - Upright Arborvitae	102.40	
32 93 33 00-0703	EA	48" B&B Thuja occidentalis & cvs - Upright Arborvitae	137.60	
32 93 33 00-0704	EA	60" B&B Thuja occidentalis & cvs - Upright Arborvitae	207.99	
32 93 33 00-0705	EA	72" B&B Thuja occidentalis & cvs - Upright Arborvitae	303.99	
32 93 33 00-0706	EA	84" B&B Thuja occidentalis & cvs - Upright Arborvitae	348.79	
32 93 33 00-0707	EA	96" B&B Thuja occidentalis & cvs - Upright Arborvitae	404.79	
32 93 33 00-0708	EA	15" B&B Thuja occidentalis cvs - Dwarf Arborvitae	44.80	
32 93 33 00-0709	EA	18" B&B Thuja occidentalis cvs - Dwarf Arborvitae	62.40	
32 93 33 00-0710	EA	24" B&B Thuja occidentalis cvs - Dwarf Arborvitae	88.00	
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	76.49	
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	116.71	
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	153.15	
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	9.28	
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum	25.44	
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball	45.72	
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball	171.37	
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	80.27	
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	94.71	
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	133.21	
32 93 33 00-0721	EA	30" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	88.00	
32 93 33 00-0722	EA	36" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	105.60	
32 93 33 00-0723	EA	24" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	80.00	
32 93 33 00-0724	EA	30" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	96.00	
32 93 33 00-0725	EA	36" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	112.00	
32 93 33 00-0726	EA	42" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	128.00	
32 93 33 00-0727	EA	1 Gallon Viburnum davidii - David Viburnum	5.35	
32 93 33 00-0728	EA	5 Gallon Viburnum davidii - David Viburnum	13.23	
32 93 33 00-0729	EA	36" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	44.80	
32 93 33 00-0730	EA	42" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	48.00	
32 93 33 00-0731	EA	48" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	56.00	
32 93 33 00-0732	EA	60" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	64.00	
32 93 33 00-0733	EA	72" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	70.40	
32 93 33 00-0734	EA	30" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	43.20	
32 93 33 00-0735	EA	36" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	48.00	
32 93 33 00-0736	EA	42" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	60.80	
32 93 33 00-0737	EA	48" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	70.40	
32 93 33 00-0738	EA	60" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	96.00	
32 93 33 00-0739	EA	72" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	115.20	
32 93 33 00-0740	EA	36" B&B Viburnum lentago & cvs - Nannyberry Viburnum	48.00	
32 93 33 00-0741	EA	48" B&B Viburnum lentago & cvs - Nannyberry Viburnum	64.00	
32 93 33 00-0742	EA	5' B&B Viburnum lentago & cvs - Nannyberry Viburnum	80.00	
32 93 33 00-0743	EA	6' B&B Viburnum lentago & cvs - Nannyberry Viburnum	112.00	
32 93 33 00-0744	EA	7' B&B Viburnum lentago & cvs - Nannyberry Viburnum	160.00	
32 93 33 00-0745	EA	8' B&B Viburnum lentago & cvs - Nannyberry Viburnum	223.99	
32 93 33 00-0746	EA	9' B&B Viburnum lentago & cvs - Nannyberry Viburnum	287.99	
32 93 33 00-0747	EA	30" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	57.60	
32 93 33 00-0748	EA	36" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	64.00	
32 93 33 00-0749	EA	36" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	115.20	
32 93 33 00-0750	EA	48" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	176.00	
32 93 33 00-0751	EA	60" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	223.99	
32 93 33 00-0752	EA	72" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	271.99	
32 93 33 00-0753	EA	84" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	335.99	
32 93 33 00-0754	EA	96" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	399.99	
32 93 33 00-0755	EA	108" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	479.99	
32 93 33 00-0756	EA	120" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	559.98	
32 93 33 00-0757	EA	30" B&B Viburnum sargentii & cvs - Sargent Viburnum	48.80	
32 93 33 00-0758	EA	36" B&B Viburnum sargentii & cvs - Sargent Viburnum	53.60	
32 93 33 00-0759	EA	48" B&B Viburnum sargentii & cvs - Sargent Viburnum	60.80	
32 93 33 00-0760	EA	60" B&B Viburnum sargentii & cvs - Sargent Viburnum	70.40	
32 93 33 00-0761	EA	72" B&B Viburnum sargentii & cvs - Sargent Viburnum	80.80	
32 93 33 00-0762	EA	18" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	46.40	
32 93 33 00-0763	EA	24" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	56.00	
32 93 33 00-0764	EA	30" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	67.20	
32 93 33 00-0765	EA	36" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	76.80	
32 93 33 00-0766	EA	42" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	92.80	
32 93 33 00-0767	EA	48" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	102.40	
32 93 33 00-0768	EA	30" B&B Viburnum x carcephalum & cvs - Fragrant Viburnum	80.00	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0769	EA		36" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	96.00	
32 93 33 00-0770	EA		42" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	112.00	
32 93 33 00-0771	EA		48" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	128.00	
32 93 33 00-0772	EA		60" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	144.00	
32 93 33 00-0773	EA		30" B&B Viburnum x juddii & cvs - Judd Viburnum.....	102.40	
32 93 33 00-0774	EA		36" B&B Viburnum x juddii & cvs - Judd Viburnum.....	115.20	
32 93 33 00-0775	EA		42" B&B Viburnum x juddii & cvs - Judd Viburnum.....	131.20	
32 93 33 00-0776	EA		48" B&B Viburnum x juddii & cvs - Judd Viburnum.....	150.40	
32 93 33 00-0777	EA		2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball.....	94.71	
32 93 33 00-0778	EA		3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball.....	116.71	
32 93 33 00-0779	EA		4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball.....	171.36	
32 93 33 00-0780	EA		5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	52.80	
32 93 33 00-0781	EA		24" B&B Weigela florida & cvs - Old Fashioned Weigela.....	48.00	
32 93 33 00-0782	EA		30" B&B Weigela florida & cvs - Old Fashioned Weigela.....	54.40	
32 93 33 00-0783	EA		36" B&B Weigela florida & cvs - Old Fashioned Weigela.....	60.80	
32 93 33 00-0784	EA		42" B&B Weigela florida & cvs - Old Fashioned Weigela.....	70.40	
32 93 33 00-0785	EA		48" B&B Weigela florida & cvs - Old Fashioned Weigela.....	80.00	
32 93 33 00-0786	EA		1 Gallon Xylosma congestum - Shiny Xylosma.....	11.00	
32 93 33 00-0787	EA		5 Gallon Xylosma congestum - Shiny Xylosma.....	31.11	
32 93 33 00-0788	EA		15 Gallon Xylosma congestum - Shiny Xylosma.....	136.82	
32 93 33 00-0789	EA		1 Gallon Yucca aloifolia - Spanish Bayonet.....	9.28	
32 93 33 00-0790	EA		3 Gallon Yucca aloifolia - Spanish Bayonet.....	24.58	
32 93 33 00-0791	EA		1 Gallon Yucca filamentosa - Adams Needle.....	12.89	
32 93 33 00-0792	EA		3 Gallon Yucca filamentosa - Adams Needle.....	25.09	
32 93 33 00-0793	EA		5 Gallon Yucca filamentosa - Adams Needle.....	39.71	
32 93 33 00-0794	EA		5 Gallon Border Forsythia - Goldenbells.....	44.17	
32 93 33 00-0795	EA		2' To 3' Border Forsythia - Goldenbells.....	36.44	
32 93 33 00-0796	EA		3' To 4' Border Forsythia - Goldenbells.....	46.06	
32 93 33 00-0797	EA		4' To 5' Border Forsythia - Goldenbells.....	57.41	
32 93 33 00-0798	EA		5' To 6' Border Forsythia - Goldenbells.....	68.92	
32 93 33 00-0799	EA		6' To 8' Border Forsythia - Goldenbells.....	94.71	
32 93 33 00-0800	EA		3' Juniperus chinensis - Columnar Chinese Juniper.....	93.84	
32 93 33 00-0801	EA		4' Juniperus chinensis - Columnar Chinese Juniper.....	128.80	
32 93 33 00-0802	EA		5' Juniperus chinensis - Columnar Chinese Juniper.....	202.39	
32 93 33 00-0803	EA		6' Juniperus chinensis - Columnar Chinese Juniper.....	235.51	
32 93 33 00-0804	EA		7' Juniperus chinensis - Columnar Chinese Juniper.....	309.11	
32 93 33 00-0805	EA		2 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	18.40	
32 93 33 00-0806	EA		3 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	25.76	
32 93 33 00-0807	EA		5 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	62.37	
32 93 33 00-0808	EA		2 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	18.40	
32 93 33 00-0809	EA		3 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	25.76	

**32 93 43 Trees (32 93)**

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

**32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA		6' Clump Form Acer ginnala & cvs - Amur Maple.....	234.10	
32 93 43 00-0003	EA		7' Clump Form Acer ginnala & cvs - Amur Maple.....	286.12	
32 93 43 00-0004	EA		8' Clump Form Acer ginnala & cvs - Amur Maple.....	325.14	
32 93 43 00-0005	EA		10' Clump Form Acer ginnala & cvs - Amur Maple.....	377.16	
32 93 43 00-0006	EA		12' Clump Form Acer ginnala & cvs - Amur Maple.....	429.19	
32 93 43 00-0007	EA		14' Clump Form Acer ginnala & cvs - Amur Maple.....	507.22	
32 93 43 00-0008	EA		1-1/2" To 2" Caliper Acer griseum - Paperbark Maple.....	238.78	
32 93 43 00-0009	EA		2" To 2-1/2" Caliper Acer griseum - Paperbark Maple.....	832.36	
32 93 43 00-0010	EA		2-1/2" To 3" Caliper Acer griseum - Paperbark Maple.....	1,040.45	
32 93 43 00-0011	EA		5' Clump Form Acer griseum - Paperbark Maple.....	208.09	
32 93 43 00-0012	EA		1-1/2" Caliper Aesculus californica - California Buckeye.....	520.23	
32 93 43 00-0013	EA		2" Caliper Aesculus californica - California Buckeye.....	676.29	
32 93 43 00-0014	EA		2-1/2" Caliper Aesculus californica - California Buckeye.....	780.34	
32 93 43 00-0015	EA		3" Caliper Aesculus californica - California Buckeye.....	884.38	
32 93 43 00-0016	EA		3-1/2" Caliper Aesculus californica - California Buckeye.....	1,040.45	
32 93 43 00-0017	EA		36" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	128.00	
32 93 43 00-0018	EA		48" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	160.00	
32 93 43 00-0019	EA		60" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	198.39	
32 93 43 00-0020	EA		60" B&B Amelanchier arborea & cvs - Downy Serviceberry.....	160.00	
32 93 43 00-0021	EA		72" B&B Amelanchier arborea & cvs - Downy Serviceberry.....	191.99	
32 93 43 00-0022	EA		7' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	223.99	
32 93 43 00-0023	EA		8' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	255.99	
32 93 43 00-0024	EA		5' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	267.99	
32 93 43 00-0025	EA		6' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	319.99	
32 93 43 00-0026	EA		7' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	367.99	
32 93 43 00-0027	EA		8' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	415.99	
32 93 43 00-0028	EA		9' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	479.99	
32 93 43 00-0029	EA		7' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	367.99	
32 93 43 00-0030	EA		8' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	431.99	
32 93 43 00-0031	EA		9' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	495.99	
32 93 43 00-0032	EA		10' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	543.99	
32 93 43 00-0033	EA		30" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	128.00	
32 93 43 00-0034	EA		48" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	271.99	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 43 00-0035	EA	60" B&B Amelanchier stolonifera & cvs - Running Serviceberry	351.99	
32 93 43 00-0036	EA	2' To 4' Amelemchier - Juneberry	38.96	
32 93 43 00-0037	EA	4' To 5' Amelemchier - Juneberry	40.87	
32 93 43 00-0038	EA	5' To 6' Amelemchier - Juneberry	48.66	
32 93 43 00-0039	EA	6' To 8' Amelemchier - Juneberry	58.06	
32 93 43 00-0040	EA	6' Cercis occidentalis - Western Redbud	145.68	
32 93 43 00-0041	EA	8' Cercis occidentalis - Western Redbud	200.42	
32 93 43 00-0042	EA	2-1/2" Caliper Cercis occidentalis - Western Redbud	412.80	
32 93 43 00-0043	EA	3" Caliper Cercis occidentalis - Western Redbud	502.54	
32 93 43 00-0044	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia	49.29	
32 93 43 00-0045	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia	73.94	
32 93 43 00-0046	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia	92.43	
32 93 43 00-0047	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia	115.12	
32 93 43 00-0048	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	195.08	
32 93 43 00-0049	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	260.11	
32 93 43 00-0050	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	338.15	
32 93 43 00-0051	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	377.16	
32 93 43 00-0052	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	455.20	
32 93 43 00-0053	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	507.22	
32 93 43 00-0054	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	195.08	
32 93 43 00-0055	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	260.11	
32 93 43 00-0056	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	338.15	
32 93 43 00-0057	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	377.16	
32 93 43 00-0058	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	455.20	
32 93 43 00-0059	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	507.22	
32 93 43 00-0060	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	5.70	
32 93 43 00-0061	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	24.15	
32 93 43 00-0062	EA	20 Gallon Prunus subhirtella - Flowering Cherry	182.90	
32 93 43 00-0063	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	189.06	
32 93 43 00-0064	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	236.30	
32 93 43 00-0065	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	493.14	
32 93 43 00-0066	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	380.08	
32 93 43 00-0067	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry	739.71	
32 93 43 00-0068	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	47.24	
32 93 43 00-0069	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	129.40	
32 93 43 00-0070	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	168.52	
32 93 43 00-0071	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	53.40	
32 93 43 00-0072	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	102.70	
32 93 43 00-0073	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	189.06	
32 93 43 00-0074	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	226.03	
32 93 43 00-0075	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry	147.98	
32 93 43 00-0076	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry	123.24	
32 93 43 00-0077	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	180.75	
32 93 43 00-0078	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	215.76	
32 93 43 00-0079	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	277.38	
32 93 43 00-0080	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	142.80	
32 93 43 00-0081	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	178.50	
32 93 43 00-0082	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	185.64	
32 93 43 00-0083	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	221.33	
32 93 43 00-0084	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	299.87	
32 93 43 00-0085	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	392.69	
32 93 43 00-0086	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	499.79	
32 93 43 00-0087	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	142.80	
32 93 43 00-0088	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	178.50	
32 93 43 00-0089	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	121.38	
32 93 43 00-0090	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	185.64	
32 93 43 00-0091	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	221.14	
32 93 43 00-0092	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	299.87	
32 93 43 00-0093	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	392.69	
32 93 43 00-0094	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	260.11	
32 93 43 00-0095	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear	325.14	
32 93 43 00-0096	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	403.18	
32 93 43 00-0097	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear	455.20	
32 93 43 00-0098	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	507.22	
32 93 43 00-0099	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear	650.28	
32 93 43 00-0100	EA	1 Gallon Ribes aureum - Golden Currant	4.99	
32 93 43 00-0101	EA	5 Gallon Ribes aureum - Golden Currant	14.27	
32 93 43 00-0102	EA	1 Gallon Ribes sanguineum - Red Flowering Currant	4.99	
32 93 43 00-0103	EA	5 Gallon Ribes sanguineum - Red Flowering Currant	14.27	
32 93 43 00-0104	EA	1 Gallon Ribes viburnifolium - Evergreen Currant	4.99	
32 93 43 00-0105	EA	5 Gallon Ribes viburnifolium - Evergreen Currant	14.27	
32 93 43 00-0106	EA	8' Cassia leptophlia - Gold Medallion Tree	224.30	
32 93 43 00-0107	EA	10' Cassia leptophlia - Gold Medallion Tree	284.69	
32 93 43 00-0108	EA	12' Cassia leptophlia - Gold Medallion Tree	345.08	
32 93 43 00-0109	EA	6' Magnolia grandiflora 'St. Mary's'	258.81	
32 93 43 00-0110	EA	8' Magnolia grandiflora 'St. Mary's'	457.23	
32 93 43 00-0111	EA	10' Magnolia grandiflora 'St. Mary's'	574.56	
32 93 43 00-0112	EA	12' Magnolia grandiflora 'St. Mary's'	690.16	
32 93 43 00-0113	EA	14' Magnolia grandiflora 'St. Mary's'	802.31	
32 93 43 00-0114	EA	16' Magnolia grandiflora 'St. Mary's'	948.97	
32 93 43 00-0115	EA	24" Box Magnolia grandiflora 'St. Mary's'	284.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0116	EA	6'	Prunus cerasifera - Purple Leaf Plum.....	134.58	
32 93 43 00-0117	EA	8'	Prunus cerasifera - Purple Leaf Plum.....	155.29	
32 93 43 00-0118	EA	10'	Prunus cerasifera - Purple Leaf Plum.....	200.15	
32 93 43 00-0119	EA	24"	Box Prunus cerasifera - Purple Leaf Plum.....	213.09	
32 93 43 00-0120	EA	30"	Box Prunus cerasifera - Purple Leaf Plum.....	431.35	
32 93 43 00-0121	EA	36"	Box Prunus cerasifera - Purple Leaf Plum.....	661.69	
32 93 43 00-0122	EA	6'	Pittosporum phylliraeoides - Willow Pittorporum.....	281.24	
32 93 43 00-0123	EA	8'	Pittosporum phylliraeoides - Willow Pittorporum.....	402.02	
32 93 43 00-0124	EA	10'	Pittosporum phylliraeoides - Willow Pittorporum.....	481.39	
32 93 43 00-0125	EA	12'	Pittosporum phylliraeoides - Willow Pittorporum.....	621.14	
32 93 43 00-0126	EA	6'	Stenocarpus sinuatus - Firewheel Tree.....	414.10	
32 93 43 00-0127	EA	8'	Stenocarpus sinuatus - Firewheel Tree.....	552.13	
32 93 43 00-0128	EA	10'	Stenocarpus sinuatus - Firewheel Tree.....	690.16	
32 93 43 00-0129	EA	12'	Stenocarpus sinuatus - Firewheel Tree.....	828.19	
32 93 43 00-0130	EA	24"	Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	197.71	
32 93 43 00-0131	EA	36"	Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	572.33	
32 93 43 00-0132	EA	1-1/2"	Caliper Arbutus menziesii - Madrona.....	300.07	
32 93 43 00-0133	EA	2"	Caliper Arbutus menziesii - Madrona.....	390.09	
32 93 43 00-0134	EA	2-1/2"	Caliper Arbutus menziesii - Madrona.....	450.10	
32 93 43 00-0135	EA	3"	Caliper Arbutus menziesii - Madrona.....	510.12	
32 93 43 00-0136	EA	3-1/2"	Caliper Arbutus menziesii - Madrona.....	600.14	
32 93 43 00-0137	EA	1-1/2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	207.05	
32 93 43 00-0138	EA	2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	336.45	
32 93 43 00-0139	EA	2-1/2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	414.10	
32 93 43 00-0140	EA	3"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	457.23	
32 93 43 00-0141	EA	24"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	201.87	
32 93 43 00-0142	EA	30"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	465.86	
32 93 43 00-0143	EA	36"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	728.98	
32 93 43 00-0144	EA	1-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	188.07	
32 93 43 00-0145	EA	2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	305.40	
32 93 43 00-0146	EA	2-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	374.41	
32 93 43 00-0147	EA	3"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	422.72	
32 93 43 00-0148	EA	6'	Magnolia grandiflora - Southern Magnolia.....	127.68	
32 93 43 00-0149	EA	7'	Magnolia grandiflora - Southern Magnolia.....	193.24	
32 93 43 00-0150	EA	8'	Magnolia grandiflora - Southern Magnolia.....	270.89	
32 93 43 00-0151	EA	9'	Magnolia grandiflora - Southern Magnolia.....	360.61	
32 93 43 00-0152	EA	10'	Magnolia grandiflora - Southern Magnolia.....	548.68	
32 93 43 00-0153	EA	24"	Box Magnolia grandiflora - Southern Magnolia.....	224.30	
32 93 43 00-0154	EA	1-1/2"	Caliper Tipuana tipu - Tipu Tree.....	267.44	
32 93 43 00-0155	EA	2"	Caliper Tipuana tipu - Tipu Tree.....	348.53	
32 93 43 00-0156	EA	2-1/2"	Caliper Tipuana tipu - Tipu Tree.....	441.70	
32 93 43 00-0157	EA	3"	Caliper Tipuana tipu - Tipu Tree.....	508.99	
32 93 43 00-0158	EA	3-1/2"	Caliper Tipuana tipu - Tipu Tree.....	748.82	
32 93 43 00-0159	EA	4"	Caliper Tipuana tipu - Tipu Tree.....	1,000.73	
32 93 43 00-0160	EA	24"	Box Tipuana tipu - Tipu Tree.....	201.87	
32 93 43 00-0161	EA	6'	Albizia julibrissin - Silk Tree.....	414.10	
32 93 43 00-0162	EA	8'	Albizia julibrissin - Silk Tree.....	552.13	
32 93 43 00-0163	EA	10'	Albizia julibrissin - Silk Tree.....	690.16	
32 93 43 00-0164	EA	12'	Albizia julibrissin - Silk Tree.....	828.19	
32 93 43 00-0165	EA	6'	Brachychiton acerifolius - Flame Tree.....	414.10	
32 93 43 00-0166	EA	8'	Brachychiton acerifolius - Flame Tree.....	552.13	
32 93 43 00-0167	EA	10'	Brachychiton acerifolius - Flame Tree.....	690.16	
32 93 43 00-0168	EA	12'	Brachychiton acerifolius - Flame Tree.....	828.19	
32 93 43 00-0169	EA	1-1/2"	Caliper Chilopsis linearis - Desert Willow.....	334.73	
32 93 43 00-0170	EA	2"	Caliper Chilopsis linearis - Desert Willow.....	402.02	
32 93 43 00-0171	EA	2-1/2"	Caliper Chilopsis linearis - Desert Willow.....	427.90	
32 93 43 00-0172	EA	3"	Caliper Chilopsis linearis - Desert Willow.....	474.48	
32 93 43 00-0173	EA	5 Gallon	Chionanthus retusus - Chinese Fringe Tree.....	17.25	
32 93 43 00-0174	EA	15 Gallon	Chionanthus retusus - Chinese Fringe Tree.....	69.02	
32 93 43 00-0175	EA	24"	Box Chionanthus retusus - Chinese Fringe Tree.....	345.08	
32 93 43 00-0176	EA	5 Gallon	Calodendrum capense - Cape Chestnut.....	25.88	
32 93 43 00-0177	EA	15 Gallon	Calodendrum capense - Cape Chestnut.....	103.52	
32 93 43 00-0178	EA	24"	Box Calodendrum capense - Cape Chestnut.....	388.22	
32 93 43 00-0179	EA	6'	Chionanthus virginicus - White Fringe Tree.....	207.05	
32 93 43 00-0180	EA	8'	Chionanthus virginicus - White Fringe Tree.....	418.78	
32 93 43 00-0181	EA	10'	Chionanthus virginicus - White Fringe Tree.....	583.30	
32 93 43 00-0182	EA	15 Gallon	Geijera parvifolia - Australian Willow.....	179.48	
32 93 43 00-0183	EA	24"	Box Geijera parvifolia - Australian Willow.....	369.43	
32 93 43 00-0184	EA	30"	Box Geijera parvifolia - Australian Willow.....	688.00	
32 93 43 00-0185	EA	36"	Box Geijera parvifolia - Australian Willow.....	987.13	
32 93 43 00-0186	EA	1-1/2"	Caliper Ginko Biloba - Maidenhair Tree.....	532.45	
32 93 43 00-0187	EA	2"	Caliper Ginko Biloba - Maidenhair Tree.....	741.84	
32 93 43 00-0188	EA	2-1/2"	Caliper Ginko Biloba - Maidenhair Tree.....	894.40	
32 93 43 00-0189	EA	3"	Caliper Ginko Biloba - Maidenhair Tree.....	1,043.96	
32 93 43 00-0190	EA	3-1/2"	Caliper Ginko Biloba - Maidenhair Tree.....	1,367.02	
32 93 43 00-0191	EA	4"	Caliper Ginko Biloba - Maidenhair Tree.....	1,459.75	
32 93 43 00-0192	EA	4-1/2"	Caliper Ginko Biloba - Maidenhair Tree.....	1,555.48	
32 93 43 00-0193	EA	24"	Box Ginko Biloba - Maidenhair Tree.....	486.09	
32 93 43 00-0194	EA	15 Gallon	Sapium sebiferum - Chinese Tallow Tree.....	179.48	
32 93 43 00-0195	EA	24"	Box Sapium sebiferum - Chinese Tallow Tree.....	658.09	
32 93 43 00-0196	EA	4' To 5'	Lagerstroemia indica - Crape Myrtle.....	191.44	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 43 00-0197	EA	6' Lagerstroemia indica - Crape Myrtle.....	355.96	
32 93 43 00-0198	EA	8' Lagerstroemia indica - Crape Myrtle.....	367.93	
32 93 43 00-0199	EA	10' Lagerstroemia indica - Crape Myrtle.....	445.70	
32 93 43 00-0200	EA	24" Box Lagerstroemia indica - Crape Myrtle.....	349.98	
32 93 43 00-0201	EA	5 Gallon Celtis Sinensis - Chinese Hackberry.....	25.32	
32 93 43 00-0202	EA	15 Gallon Celtis Sinensis - Chinese Hackberry.....	66.75	
32 93 43 00-0203	EA	24" Box Celtis Sinensis - Chinese Hackberry.....	218.65	
32 93 43 00-0204	EA	36" Box Celtis Sinensis - Chinese Hackberry.....	638.69	
32 93 43 00-0205	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	25.32	
32 93 43 00-0206	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	66.75	
32 93 43 00-0207	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn.....	218.65	
32 93 43 00-0208	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn.....	638.69	
32 93 43 00-0209	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	7.48	
32 93 43 00-0210	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	20.71	
32 93 43 00-0211	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	90.91	
32 93 43 00-0212	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	218.65	
32 93 43 00-0213	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	575.40	
32 93 43 00-0214	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	56.39	
32 93 43 00-0215	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	184.13	
32 93 43 00-0216	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	489.09	
32 93 43 00-0217	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,093.26	
32 93 43 00-0218	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	16.11	
32 93 43 00-0219	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	56.39	
32 93 43 00-0220	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	184.13	
32 93 43 00-0221	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	489.09	
32 93 43 00-0222	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	1,093.26	
32 93 43 00-0223	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	16.11	
32 93 43 00-0224	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	67.90	
32 93 43 00-0225	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	184.13	
32 93 43 00-0226	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	517.86	
32 93 43 00-0227	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	1,323.42	
32 93 43 00-0228	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	16.11	
32 93 43 00-0229	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	67.90	
32 93 43 00-0230	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	184.13	
32 93 43 00-0231	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	517.86	
32 93 43 00-0232	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	1,323.42	
32 93 43 00-0233	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	16.11	
32 93 43 00-0234	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	67.90	
32 93 43 00-0235	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	184.13	
32 93 43 00-0236	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	517.86	
32 93 43 00-0237	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	1,323.42	
32 93 43 00-0238	EA	1 Gallon Pittosporum undulatum - Victorian Box.....	6.76	
32 93 43 00-0239	EA	5 Gallon Pittosporum undulatum - Victorian Box.....	14.57	
32 93 43 00-0240	EA	15 Gallon Pittosporum undulatum - Victorian Box.....	82.21	
32 93 43 00-0241	EA	24" Box Pittosporum undulatum - Victorian Box.....	197.71	
32 93 43 00-0242	EA	36" Box Pittosporum undulatum - Victorian Box.....	572.33	
32 93 43 00-0243	EA	48" Box Pittosporum undulatum - Victorian Box.....	1,300.75	
32 93 43 00-0244	EA	15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	57.48	
32 93 43 00-0245	EA	24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	207.09	

**32 93 43 00-0246****Deciduous Shade Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple.....	204.30	
32 93 43 00-0248	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple.....	250.44	
32 93 43 00-0249	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple.....	326.22	
32 93 43 00-0250	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple.....	422.88	
32 93 43 00-0251	EA	2' To 2-1/2' Acer palmatum - Japanese Maple.....	21.55	
32 93 43 00-0252	EA	4' To 5' Acer palmatum - Japanese Maple.....	45.25	
32 93 43 00-0253	EA	5' To 6' Acer palmatum - Japanese Maple.....	59.26	
32 93 43 00-0254	EA	6' To 7' Acer palmatum - Japanese Maple.....	107.74	
32 93 43 00-0255	EA	7' To 8' Acer palmatum - Japanese Maple.....	150.84	
32 93 43 00-0256	EA	8' To 10' Acer palmatum - Japanese Maple.....	193.94	
32 93 43 00-0257	EA	10' To 12' Acer palmatum - Japanese Maple.....	258.58	
32 93 43 00-0258	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	109.84	
32 93 43 00-0259	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	133.72	
32 93 43 00-0260	EA	3" Caliper Acer platanoides & cvs - Norway Maple.....	171.92	
32 93 43 00-0261	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	200.58	
32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....	214.90	
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	234.01	
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....	262.66	
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple.....	105.06	
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	133.72	
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple.....	171.92	
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	210.13	
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple.....	238.78	
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	276.99	
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple.....	310.42	
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple.....	128.94	
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple.....	171.92	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0274 EA 12' Clump Form Acer rubrum & cvs - Red Maple.....	200.58	
32 93 43 00-0275 EA 14' Clump Form Acer rubrum & cvs - Red Maple.....	229.23	
32 93 43 00-0276 EA 16' Clump Form Acer rubrum & cvs - Red Maple.....	257.89	
32 93 43 00-0277 EA 18' Clump Form Acer rubrum & cvs - Red Maple.....	286.54	
32 93 43 00-0278 EA 2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	167.15	
32 93 43 00-0279 EA 2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	186.25	
32 93 43 00-0280 EA 3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	210.13	
32 93 43 00-0281 EA 3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	238.78	
32 93 43 00-0282 EA 4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	286.54	
32 93 43 00-0283 EA 2" Caliper Betula nigra - River Birch.....	119.39	
32 93 43 00-0284 EA 2-1/2" Caliper Betula nigra - River Birch.....	135.20	
32 93 43 00-0285 EA 3" Caliper Betula nigra - River Birch.....	152.82	
32 93 43 00-0286 EA 3-1/2" Caliper Betula nigra - River Birch.....	191.03	
32 93 43 00-0287 EA 4" Caliper Betula nigra - River Birch.....	214.90	
32 93 43 00-0288 EA 4-1/2" Caliper Betula nigra - River Birch.....	238.78	
32 93 43 00-0289 EA 5" Caliper Betula nigra - River Birch.....	262.66	
32 93 43 00-0290 EA 8' Clump Form Betula nigra - River Birch.....	109.84	
32 93 43 00-0291 EA 10' Clump Form Betula nigra - River Birch.....	124.17	
32 93 43 00-0292 EA 12' Clump Form Betula nigra - River Birch.....	143.27	
32 93 43 00-0293 EA 14' Clump Form Betula nigra - River Birch.....	167.15	
32 93 43 00-0294 EA 16' Clump Form Betula nigra - River Birch.....	191.03	
32 93 43 00-0295 EA 12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	143.27	
32 93 43 00-0296 EA 14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	171.92	
32 93 43 00-0297 EA 16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	200.58	
32 93 43 00-0298 EA 18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	238.78	
32 93 43 00-0299 EA 20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	248.33	
32 93 43 00-0300 EA 2" Caliper Carpinus betulus & cvs - European Hornbeam.....	191.03	
32 93 43 00-0301 EA 2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	214.90	
32 93 43 00-0302 EA 3" Caliper Carpinus betulus & cvs - European Hornbeam.....	248.33	
32 93 43 00-0303 EA 3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	300.87	
32 93 43 00-0304 EA 6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	85.96	
32 93 43 00-0305 EA 7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	119.39	
32 93 43 00-0306 EA 8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	148.05	
32 93 43 00-0307 EA 2" Caliper Catalpa speciosa - Western Catalpa.....	105.06	
32 93 43 00-0308 EA 2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	143.27	
32 93 43 00-0309 EA 3" Caliper Catalpa speciosa - Western Catalpa.....	186.25	
32 93 43 00-0310 EA 3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	224.46	
32 93 43 00-0311 EA 4" Caliper Catalpa speciosa - Western Catalpa.....	257.89	
32 93 43 00-0312 EA 8' Clump Form Corylus cornuta californica - Western Filbert.....	133.72	
32 93 43 00-0313 EA 10' Clump Form Corylus cornuta californica - Western Filbert.....	162.37	
32 93 43 00-0314 EA 12' Clump Form Corylus cornuta californica - Western Filbert.....	191.03	
32 93 43 00-0315 EA 1-1/2" Caliper Diospyros - Persimmon.....	85.96	
32 93 43 00-0316 EA 2" Caliper Diospyros - Persimmon.....	105.06	
32 93 43 00-0317 EA 2-1/2" Caliper Diospyros - Persimmon.....	133.72	
32 93 43 00-0318 EA 3" Caliper Diospyros - Persimmon.....	167.15	
32 93 43 00-0319 EA 3-1/2" Caliper Diospyros - Persimmon.....	200.58	
32 93 43 00-0320 EA 2" Caliper Fagus sylvatica & cvs - European Beech.....	214.90	
32 93 43 00-0321 EA 2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	257.89	
32 93 43 00-0322 EA 3" Caliper Fagus sylvatica & cvs - European Beech.....	310.42	
32 93 43 00-0323 EA 3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	343.85	
32 93 43 00-0324 EA 4" Caliper Fagus sylvatica & cvs - European Beech.....	405.93	
32 93 43 00-0325 EA 4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	525.32	
32 93 43 00-0326 EA 5" Caliper Fagus sylvatica & cvs - European Beech.....	620.83	
32 93 43 00-0327 EA 2" Caliper Fraxinus americana & cvs - White Ash.....	119.39	
32 93 43 00-0328 EA 2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	143.27	
32 93 43 00-0329 EA 3" Caliper Fraxinus americana & cvs - White Ash.....	181.47	
32 93 43 00-0330 EA 3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	219.68	
32 93 43 00-0331 EA 4" Caliper Fraxinus americana & cvs - White Ash.....	257.89	
32 93 43 00-0332 EA 4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	286.54	
32 93 43 00-0333 EA 5" Caliper Fraxinus americana & cvs - White Ash.....	334.30	
32 93 43 00-0334 EA 1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	167.15	
32 93 43 00-0335 EA 2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	186.25	
32 93 43 00-0336 EA 2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	210.13	
32 93 43 00-0337 EA 3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	234.01	
32 93 43 00-0338 EA 3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	262.66	
32 93 43 00-0339 EA 4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	286.54	
32 93 43 00-0340 EA 4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	429.81	
32 93 43 00-0341 EA 5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	477.57	
32 93 43 00-0342 EA 2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	114.62	
32 93 43 00-0343 EA 2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	143.27	
32 93 43 00-0344 EA 3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	171.92	
32 93 43 00-0345 EA 3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	200.58	
32 93 43 00-0346 EA 4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	229.23	
32 93 43 00-0347 EA 4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	257.89	
32 93 43 00-0348 EA 5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	305.64	
32 93 43 00-0349 EA 10' - 12' Bursera Simaruba - Gumbo Limbo.....	60.41	
32 93 43 00-0350 EA 12' - 14' Bursera Simaruba - Gumbo Limbo.....	71.40	
32 93 43 00-0351 EA 14' - 16' Bursera Simaruba - Gumbo Limbo.....	98.86	
32 93 43 00-0352 EA 17' - 18' Bursera Simaruba - Gumbo Limbo.....	128.51	
32 93 43 00-0353 EA 19' - 20' Bursera Simaruba - Gumbo Limbo.....	142.79	
32 93 43 00-0354 EA 21' - 22' Bursera Simaruba - Gumbo Limbo.....	169.15	



**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0355 EA 1-1/2" Caliper Juglans californica - California Walnut.....	114.62	
32 93 43 00-0356 EA 2" Caliper Juglans californica - California Walnut.....	133.72	
32 93 43 00-0357 EA 2-1/2" Caliper Juglans californica - California Walnut.....	167.15	
32 93 43 00-0358 EA 3" Caliper Juglans californica - California Walnut.....	210.13	
32 93 43 00-0359 EA 3-1/2" Caliper Juglans californica - California Walnut.....	257.89	
32 93 43 00-0360 EA 4" Caliper Juglans californica - California Walnut.....	310.42	
32 93 43 00-0361 EA 4-1/2" Caliper Juglans californica - California Walnut.....	358.17	
32 93 43 00-0362 EA 5" Caliper Juglans californica - California Walnut.....	405.93	
32 93 43 00-0363 EA 5 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	12.93	
32 93 43 00-0364 EA 15 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	32.32	
32 93 43 00-0365 EA 20 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	64.65	
32 93 43 00-0366 EA 55 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	84.04	
32 93 43 00-0367 EA 1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	61.41	
32 93 43 00-0368 EA 2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	74.34	
32 93 43 00-0369 EA 2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	103.43	
32 93 43 00-0370 EA 1-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	152.82	
32 93 43 00-0371 EA 2" Caliper Liquidambar styraciflua - American Sweetgum.....	191.03	
32 93 43 00-0372 EA 2-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	238.78	
32 93 43 00-0373 EA 3" Caliper Liquidambar styraciflua - American Sweetgum.....	286.54	
32 93 43 00-0374 EA 3-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	334.30	
32 93 43 00-0375 EA 1-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	152.82	
32 93 43 00-0376 EA 2" Caliper Liriodendron tulipifera - Tulip Tree.....	210.13	
32 93 43 00-0377 EA 2-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	248.33	
32 93 43 00-0378 EA 3" Caliper Liriodendron tulipifera - Tulip Tree.....	286.54	
32 93 43 00-0379 EA 3-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	324.74	
32 93 43 00-0380 EA 8' Clump Form Liriodendron tulipifera - Tulip Tree.....	114.62	
32 93 43 00-0381 EA 10' Clump Form Liriodendron tulipifera - Tulip Tree.....	205.35	
32 93 43 00-0382 EA 12' Clump Form Liriodendron tulipifera - Tulip Tree.....	248.33	
32 93 43 00-0383 EA 1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	152.82	
32 93 43 00-0384 EA 2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	191.03	
32 93 43 00-0385 EA 2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	238.78	
32 93 43 00-0386 EA 3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	286.54	
32 93 43 00-0387 EA 3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	334.30	
32 93 43 00-0388 EA 4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	66.86	
32 93 43 00-0389 EA 5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	76.41	
32 93 43 00-0390 EA 6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	90.74	
32 93 43 00-0391 EA 7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	114.62	
32 93 43 00-0392 EA 8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	143.27	
32 93 43 00-0393 EA 30" Box Platanus Occidentalis - Buttonwood Sycamore.....	207.48	
32 93 43 00-0394 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	301.79	
32 93 43 00-0395 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	448.93	
32 93 43 00-0396 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	69.42	
32 93 43 00-0397 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	83.00	
32 93 43 00-0398 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	113.17	
32 93 43 00-0399 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	137.34	
32 93 43 00-0400 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	57.12	
32 93 43 00-0401 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	71.40	
32 93 43 00-0402 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	126.32	
32 93 43 00-0403 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	181.24	
32 93 43 00-0404 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	114.62	
32 93 43 00-0405 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	138.49	
32 93 43 00-0406 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	167.15	
32 93 43 00-0407 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	200.58	
32 93 43 00-0408 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	238.78	
32 93 43 00-0409 EA 2" Caliper Populus alba & cvs - White Poplar.....	114.62	
32 93 43 00-0410 EA 2-1/2" Caliper Populus alba & cvs - White Poplar.....	133.72	
32 93 43 00-0411 EA 3" Caliper Populus alba & cvs - White Poplar.....	152.82	
32 93 43 00-0412 EA 3-1/2" Caliper Populus alba & cvs - White Poplar.....	181.47	
32 93 43 00-0413 EA 4" Caliper Populus alba & cvs - White Poplar.....	200.58	
32 93 43 00-0414 EA 4-1/2" Caliper Populus alba & cvs - White Poplar.....	229.23	
32 93 43 00-0415 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	105.06	
32 93 43 00-0416 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	138.49	
32 93 43 00-0417 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	167.15	
32 93 43 00-0418 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	200.58	
32 93 43 00-0419 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	238.78	
32 93 43 00-0420 EA 2" Caliper Quercus palustris - Pin Oak.....	105.06	
32 93 43 00-0421 EA 2-1/2" Caliper Quercus palustris - Pin Oak.....	143.27	
32 93 43 00-0422 EA 3" Caliper Quercus palustris - Pin Oak.....	186.25	
32 93 43 00-0423 EA 3-1/2" Caliper Quercus palustris - Pin Oak.....	214.90	
32 93 43 00-0424 EA 4" Caliper Quercus palustris - Pin Oak.....	248.33	
32 93 43 00-0425 EA 4-1/2" Caliper Quercus palustris - Pin Oak.....	281.76	
32 93 43 00-0426 EA 5" Caliper Quercus palustris - Pin Oak.....	310.42	
32 93 43 00-0427 EA 2" Caliper Quercus shumardii - Shumard Oak.....	162.37	
32 93 43 00-0428 EA 2-1/2" Caliper Quercus shumardii - Shumard Oak.....	205.35	
32 93 43 00-0429 EA 3" Caliper Quercus shumardii - Shumard Oak.....	238.78	
32 93 43 00-0430 EA 3-1/2" Caliper Quercus shumardii - Shumard Oak.....	286.54	
32 93 43 00-0431 EA 4" Caliper Quercus shumardii - Shumard Oak.....	334.30	
32 93 43 00-0432 EA 4-1/2" Caliper Quercus shumardii - Shumard Oak.....	382.05	
32 93 43 00-0433 EA 5" Caliper Quercus shumardii - Shumard Oak.....	429.81	
32 93 43 00-0434 EA 24" Box Salix babylonica - Weeping Willow.....	120.71	
32 93 43 00-0435 EA 36" Box Salix babylonica - Weeping Willow.....	301.79	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0436	EA		1-1/2" To 2" Caliper Salix babylonica - Weeping Willow .....	69.42	
32 93 43 00-0437	EA		2" To 2-1/2" Caliper Salix babylonica - Weeping Willow .....	83.00	
32 93 43 00-0438	EA		2-1/2" To 3" Caliper Salix babylonica - Weeping Willow .....	90.54	
32 93 43 00-0439	EA		2' Thuja occidentalis - American Arborvitae .....	16.37	
32 93 43 00-0440	EA		2-1/2' Thuja occidentalis - American Arborvitae .....	17.68	
32 93 43 00-0441	EA		3' Thuja occidentalis - American Arborvitae .....	25.26	
32 93 43 00-0442	EA		4' Thuja occidentalis - American Arborvitae .....	34.71	
32 93 43 00-0443	EA		5' Thuja occidentalis - American Arborvitae .....	48.33	
32 93 43 00-0444	EA		6' Thuja occidentalis - American Arborvitae .....	67.00	
32 93 43 00-0445	EA		7' Thuja occidentalis - American Arborvitae .....	81.28	
32 93 43 00-0446	EA		8' Thuja occidentalis - American Arborvitae .....	114.23	
32 93 43 00-0447	EA		2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	120.11	
32 93 43 00-0448	EA		2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	145.08	
32 93 43 00-0449	EA		3" Caliper Tilia cordata & cvs - Littleleaf Linden .....	167.15	
32 93 43 00-0450	EA		3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	205.35	
32 93 43 00-0451	EA		4" Caliper Tilia cordata & cvs - Littleleaf Linden .....	234.01	
32 93 43 00-0452	EA		4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	262.66	
32 93 43 00-0453	EA		5" Caliper Tilia cordata & cvs - Littleleaf Linden .....	291.31	
32 93 43 00-0454	EA		2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	133.72	
32 93 43 00-0455	EA		2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	162.82	
32 93 43 00-0456	EA		3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	167.15	
32 93 43 00-0457	EA		3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	181.47	
32 93 43 00-0458	EA		4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	200.58	
32 93 43 00-0459	EA		4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	238.78	
32 93 43 00-0460	EA		5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	281.76	
32 93 43 00-0461	EA		2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	152.82	
32 93 43 00-0462	EA		2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	167.15	
32 93 43 00-0463	EA		3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	181.47	
32 93 43 00-0464	EA		3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	200.58	
32 93 43 00-0465	EA		4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	238.78	
32 93 43 00-0466	EA		4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	281.76	
32 93 43 00-0467	EA		5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm .....	324.74	
32 93 43 00-0468	EA		2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	152.82	
32 93 43 00-0469	EA		2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm .....	167.15	
32 93 43 00-0470	EA		3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	181.47	
32 93 43 00-0471	EA		3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	200.58	
32 93 43 00-0472	EA		4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	238.78	
32 93 43 00-0473	EA		4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	281.76	
32 93 43 00-0474	EA		5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm .....	324.74	
32 93 43 00-0475	EA		1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	278.19	
32 93 43 00-0476	EA		2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	496.56	
32 93 43 00-0477	EA		2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	726.89	
32 93 43 00-0478	EA		3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	903.37	
32 93 43 00-0479	EA		3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	1,169.60	
32 93 43 00-0480	EA		4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane .....	1,331.13	
32 93 43 00-0481	EA		24" Box Platanus acerifolia "Bloodgold" - London Plane .....	349.98	
32 93 43 00-0482	EA		1-1/2" Caliper Quercus suber - Cork Oak .....	418.78	
32 93 43 00-0483	EA		2" Caliper Quercus suber - Cork Oak .....	580.31	
32 93 43 00-0484	EA		2-1/2" Caliper Quercus suber - Cork Oak .....	741.84	
32 93 43 00-0485	EA		3" Caliper Quercus suber - Cork Oak .....	927.30	
32 93 43 00-0486	EA		3-1/2" Caliper Quercus suber - Cork Oak .....	1,390.95	
32 93 43 00-0487	EA		4" Caliper Quercus suber - Cork Oak .....	1,794.78	
32 93 43 00-0488	EA		4-1/2" Caliper Quercus suber - Cork Oak .....	2,333.21	
32 93 43 00-0489	EA		1-1/2" Caliper Quercus ilex - Holly Oak .....	463.65	
32 93 43 00-0490	EA		2" Caliper Quercus ilex - Holly Oak .....	625.18	
32 93 43 00-0491	EA		2-1/2" Caliper Quercus ilex - Holly Oak .....	765.77	
32 93 43 00-0492	EA		3" Caliper Quercus ilex - Holly Oak .....	927.30	
32 93 43 00-0493	EA		3-1/2" Caliper Quercus ilex - Holly Oak .....	1,390.95	
32 93 43 00-0494	EA		4" Caliper Quercus ilex - Holly Oak .....	1,794.78	

**32 93 43 00-0495**

**Evergreen Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496	EA		2' To 3' Cedrus atlantica - Blue Atlas Cedar .....	12.57	
32 93 43 00-0497	EA		3' To 4' Cedrus atlantica - Blue Atlas Cedar .....	20.21	
32 93 43 00-0498	EA		4' To 5' Cedrus atlantica - Blue Atlas Cedar .....	30.03	
32 93 43 00-0499	EA		5' To 6' Cedrus atlantica - Blue Atlas Cedar .....	40.40	
32 93 43 00-0500	EA		7' To 8' Cedrus atlantica - Blue Atlas Cedar .....	57.35	
32 93 43 00-0501	EA		6' To 8' Cedrus deodara - Indian Cedar .....	51.90	
32 93 43 00-0502	EA		8' To 10' Cedrus deodara - Indian Cedar .....	60.08	
32 93 43 00-0503	EA		10' To 12' Cedrus deodara - Indian Cedar .....	81.92	
32 93 43 00-0504	EA		12' To 14' Cedrus deodara - Indian Cedar .....	106.49	
32 93 43 00-0505	EA		14' To 16' Cedrus deodara - Indian Cedar .....	136.55	
32 93 43 00-0506	EA		15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress .....	16.22	
32 93 43 00-0507	EA		18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress .....	24.33	
32 93 43 00-0508	EA		2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress .....	37.85	
32 93 43 00-0509	EA		3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress .....	64.89	
32 93 43 00-0510	EA		5 Gallon Cupressocyparis leylandii - Leyland Cypress .....	8.92	
32 93 43 00-0511	EA		15 Gallon Cupressocyparis leylandii - Leyland Cypress .....	35.70	
32 93 43 00-0512	EA		4' To 5' Cupressocyparis leylandii - Leyland Cypress .....	15.62	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0513	EA	5'	To 6' Cupressocyparis leylandii - Leyland Cypress	20.08	
32 93 43 00-0514	EA	6'	To 7' Cupressocyparis leylandii - Leyland Cypress	31.24	
32 93 43 00-0515	EA	24"	Box Cupressocyparis leylandii - Leyland Cypress	75.86	
32 93 43 00-0516	EA	1	Gallon Cupressus macrocarpa - Monterey Cypress	1.63	
32 93 43 00-0517	EA	5	Gallon Cupressus macrocarpa - Monterey Cypress	7.32	
32 93 43 00-0518	EA	15	Gallon Cupressus macrocarpa - Monterey Cypress	24.41	
32 93 43 00-0519	EA	5	Gallon Cupressus sempervirens - Italian Cypress	8.40	
32 93 43 00-0520	EA	15	Gallon Cupressus sempervirens - Italian Cypress	23.10	
32 93 43 00-0521	EA	1	Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	2.47	
32 93 43 00-0522	EA	2	Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	4.83	
32 93 43 00-0523	EA	3	Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	5.98	
32 93 43 00-0524	EA	5	Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	7.03	
32 93 43 00-0525	EA	1	Gallon Juniperus - Blue Sargent Juniper	2.47	
32 93 43 00-0526	EA	2	Gallon Juniperus - Blue Sargent Juniper	4.83	
32 93 43 00-0527	EA	3	Gallon Juniperus - Blue Sargent Juniper	5.98	
32 93 43 00-0528	EA	5	Gallon Juniperus - Blue Sargent Juniper	7.03	
32 93 43 00-0529	EA	5	Gallon Juniperus - Compact Pfitzer Juniper	7.03	
32 93 43 00-0530	EA	15"	To 18" Juniperus - Compact Pfitzer Juniper	7.61	
32 93 43 00-0531	EA	18"	To 24" Juniperus - Compact Pfitzer Juniper	9.19	
32 93 43 00-0532	EA	2'	To 2 1/2' Juniperus - Compact Pfitzer Juniper	13.65	
32 93 43 00-0533	EA	2-1/2'	To 3' Juniperus - Compact Pfitzer Juniper	15.80	
32 93 43 00-0534	EA	5'	To 6' Juniperus - Fairview Juniper	23.54	
32 93 43 00-0535	EA	1	Gallon Juniperus - Hollywood Juniper	3.15	
32 93 43 00-0536	EA	5	Gallon Juniperus - Hollywood Juniper	8.77	
32 93 43 00-0537	EA	15	Gallon Juniperus - Hollywood Juniper	37.17	
32 93 43 00-0538	EA	4'	To 5' Juniperus - Hollywood Juniper	24.57	
32 93 43 00-0539	EA	5'	To 6' Juniperus - Hollywood Juniper	31.66	
32 93 43 00-0540	EA	1	Gallon Juniperus - Parson's Juniper	2.47	
32 93 43 00-0541	EA	2	Gallon Juniperus - Parson's Juniper	4.88	
32 93 43 00-0542	EA	3	Gallon Juniperus - Parson's Juniper	6.04	
32 93 43 00-0543	EA	5	Gallon Juniperus - Parson's Juniper	7.14	
32 93 43 00-0544	EA	5	Gallon Juniperus - Skyrocket Juniper	8.82	
32 93 43 00-0545	EA	15	Gallon Juniperus - Skyrocket Juniper	37.54	
32 93 43 00-0546	EA	2'	To 3' Juniperus - Skyrocket Juniper	13.23	
32 93 43 00-0547	EA	3'	To 4' Juniperus - Skyrocket Juniper	18.74	
32 93 43 00-0548	EA	4'	To 5' Juniperus - Skyrocket Juniper	24.83	
32 93 43 00-0549	EA	5'	To 6' Juniperus - Skyrocket Juniper	32.02	
32 93 43 00-0550	EA	6'	To 8' Juniperus - Skyrocket Juniper	41.37	
32 93 43 00-0551	EA	1	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	2.47	
32 93 43 00-0552	EA	2	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	4.86	
32 93 43 00-0553	EA	3	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	5.96	
32 93 43 00-0554	EA	5	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	7.06	
32 93 43 00-0555	EA	1	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	2.47	
32 93 43 00-0556	EA	2	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	4.86	
32 93 43 00-0557	EA	3	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	5.96	
32 93 43 00-0558	EA	5	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	7.06	
32 93 43 00-0559	EA	3'	Pinus sylvestris - Scotch Pine	22.93	
32 93 43 00-0560	EA	4'	Pinus sylvestris - Scotch Pine	31.83	
32 93 43 00-0561	EA	5'	Pinus sylvestris - Scotch Pine	44.68	
32 93 43 00-0562	EA	6'	Pinus sylvestris - Scotch Pine	61.99	
32 93 43 00-0563	EA	7'	Pinus sylvestris - Scotch Pine	75.95	
32 93 43 00-0564	EA	8'	Pinus sylvestris - Scotch Pine	107.23	
32 93 43 00-0565	EA	9'	Pinus sylvestris - Scotch Pine	136.13	
32 93 43 00-0566	EA	10'	Pinus sylvestris - Scotch Pine	157.07	
32 93 43 00-0567	EA	12'	Pinus sylvestris - Scotch Pine	184.99	
32 93 43 00-0568	EA	14'	Pinus sylvestris - Scotch Pine	209.43	
32 93 43 00-0569	EA	16'	Pinus sylvestris - Scotch Pine	244.33	
32 93 43 00-0570	EA	1	Gallon Pinus thunbergiana - Japanese Black Pine	2.47	
32 93 43 00-0571	EA	5	Gallon Pinus thunbergiana - Japanese Black Pine	8.77	
32 93 43 00-0572	EA	15	Gallon Pinus thunbergiana - Japanese Black Pine	28.40	
32 93 43 00-0573	EA	2'	To 3' Pinus thunbergiana - Japanese Black Pine	12.02	
32 93 43 00-0574	EA	3'	To 4' Pinus thunbergiana - Japanese Black Pine	15.28	
32 93 43 00-0575	EA	4'	To 5' Pinus thunbergiana - Japanese Black Pine	22.94	
32 93 43 00-0576	EA	5'	To 6' Pinus thunbergiana - Japanese Black Pine	44.78	
32 93 43 00-0577	EA	6'	To 7' Pinus Thunbergiana - Japanese Black Pine	50.24	
32 93 43 00-0578	EA	7'	To 8' Pinus thunbergiana - Japanese Black Pine	62.79	
32 93 43 00-0579	EA	6'	Pinus flexilis & cvs - Limber Pine	87.26	
32 93 43 00-0580	EA	7'	Pinus flexilis & cvs - Limber Pine	101.22	
32 93 43 00-0581	EA	8'	Pinus flexilis & cvs - Limber Pine	125.66	
32 93 43 00-0582	EA	9'	Pinus flexilis & cvs - Limber Pine	153.58	
32 93 43 00-0583	EA	10'	Pinus flexilis & cvs - Limber Pine	174.52	
32 93 43 00-0584	EA	1	Gallon Pinus mugo - Mugho Pine	3.25	
32 93 43 00-0585	EA	2	Gallon Pinus mugo - Mugho Pine	6.88	
32 93 43 00-0586	EA	3	Gallon Pinus mugo - Mugho Pine	8.61	
32 93 43 00-0587	EA	5	Gallon Pinus mugo - Mugho Pine	10.92	
32 93 43 00-0588	EA	12"	To 15" Spread Pinus mugo - Mugho Pine	8.45	
32 93 43 00-0589	EA	15"	To 18" Spread Pinus mugo - Mugho Pine	10.08	
32 93 43 00-0590	EA	18"	To 24" Spread Pinus mugo - Mugho Pine	13.65	
32 93 43 00-0591	EA	2'	To 2-1/2' Spread Pinus mugo - Mugho Pine	19.11	
32 93 43 00-0592	EA	2-1/2'	To 3' Spread Pinus mugo - Mugho Pine	24.57	
32 93 43 00-0593	EA	3'	To 3-1/2' Spread Pinus mugo - Mugho Pine	30.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0594	EA		3-1/2' To 4' Spread Pinus mugo - Mugho Pine.....	37.17	
32 93 43 00-0595	EA		6' Pinus nigra - Austrian Pine.....	87.26	
32 93 43 00-0596	EA		7' Pinus nigra - Austrian Pine.....	104.71	
32 93 43 00-0597	EA		8' Pinus nigra - Austrian Pine.....	136.13	
32 93 43 00-0598	EA		9' Pinus nigra - Austrian Pine.....	157.07	
32 93 43 00-0599	EA		10' Pinus nigra - Austrian Pine.....	184.99	
32 93 43 00-0600	EA		12' Pinus nigra - Austrian Pine.....	209.43	
32 93 43 00-0601	EA		14' Pinus nigra - Austrian Pine.....	233.86	
32 93 43 00-0602	EA		16' Pinus nigra - Austrian Pine.....	265.27	
32 93 43 00-0603	EA		1 Gallon Podocarpus - Chinese Podocarpus.....	1.63	
32 93 43 00-0604	EA		3 Gallon Podocarpus - Chinese Podocarpus.....	3.78	
32 93 43 00-0605	EA		7 Gallon Podocarpus - Chinese Podocarpus.....	10.92	
32 93 43 00-0606	EA		15 Gallon Podocarpus - Chinese Podocarpus.....	17.74	
32 93 43 00-0607	EA		4' To 5' Podocarpus - Chinese Podocarpus.....	27.30	
32 93 43 00-0608	EA		5' To 6' Sequoia sempervirens - Dawn Redwood.....	34.12	
32 93 43 00-0609	EA		6' To 8' Sequoia sempervirens - Dawn Redwood.....	46.07	
32 93 43 00-0610	EA		8' To 10' Sequoia sempervirens - Dawn Redwood.....	56.30	
32 93 43 00-0611	EA		3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	6.58	
32 93 43 00-0612	EA		3' To 4' Thuja occidentalis 'Woodwadii' - Woodward Arborvitae.....	30.16	
32 93 43 00-0613	EA		6' Cedrus decurrens - Incese Cedar.....	58.60	
32 93 43 00-0614	EA		8' Cedrus decurrens - Incese Cedar.....	121.22	
32 93 43 00-0615	EA		10' Cedrus decurrens - Incese Cedar.....	160.56	
32 93 43 00-0616	EA		12' Cedrus decurrens - Incese Cedar.....	212.74	
32 93 43 00-0617	EA		6' Melaleuca linariifolia - Flaxleaf Paperbark.....	168.59	
32 93 43 00-0618	EA		8' Melaleuca linariifolia - Flaxleaf Paperbark.....	224.78	
32 93 43 00-0619	EA		10' Melaleuca linariifolia - Flaxleaf Paperbark.....	280.98	
32 93 43 00-0620	EA		12' Melaleuca linariifolia - Flaxleaf Paperbark.....	337.18	
32 93 43 00-0621	EA		24" Box Melaleuca linariifolia - Flaxleaf Paperbark.....	166.98	
32 93 43 00-0622	EA		6' Melaleuca quinquenervia - Cajeput Tree.....	168.59	
32 93 43 00-0623	EA		8' Melaleuca quinquenervia - Cajeput Tree.....	224.78	
32 93 43 00-0624	EA		10' Melaleuca quinquenervia - Cajeput Tree.....	280.98	
32 93 43 00-0625	EA		12' Melaleuca quinquenervia - Cajeput Tree.....	337.18	
32 93 43 00-0626	EA		24" Box Melaleuca quinquenervia - Cajeput Tree.....	93.93	
32 93 43 00-0627	EA		30" Box Melaleuca quinquenervia - Cajeput Tree.....	236.83	
32 93 43 00-0628	EA		36" Box Melaleuca quinquenervia - Cajeput Tree.....	373.30	
32 93 43 00-0629	EA		4' Metrosideros excelsus - New Zealand Christmas Tree.....	49.77	
32 93 43 00-0630	EA		5' Metrosideros excelsus - New Zealand Christmas Tree.....	67.44	
32 93 43 00-0631	EA		6' Metrosideros excelsus - New Zealand Christmas Tree.....	114.80	
32 93 43 00-0632	EA		8' Metrosideros excelsus - New Zealand Christmas Tree.....	142.10	
32 93 43 00-0633	EA		24" Box Metrosideros excelsus - New Zealand Christmas Tree.....	158.17	
32 93 43 00-0634	EA		6' Pinus canariensis - Canary Island Pine.....	192.67	
32 93 43 00-0635	EA		8' Pinus canariensis - Canary Island Pine.....	256.90	
32 93 43 00-0636	EA		10' Pinus canariensis - Canary Island Pine.....	321.12	
32 93 43 00-0637	EA		12' Pinus canariensis - Canary Island Pine.....	385.34	
32 93 43 00-0638	EA		24" Box Pinus canariensis - Canary Island Pine.....	198.29	
32 93 43 00-0639	EA		6' Pinus pinea - Italian Stone Pine.....	192.67	
32 93 43 00-0640	EA		8' Pinus pinea - Italian Stone Pine.....	256.90	
32 93 43 00-0641	EA		10' Pinus pinea - Italian Stone Pine.....	321.12	
32 93 43 00-0642	EA		12' Pinus pinea - Italian Stone Pine.....	385.34	
32 93 43 00-0643	EA		6' Pittosporum undulatum - Victorian Box.....	105.97	
32 93 43 00-0644	EA		8' Pittosporum undulatum - Victorian Box.....	167.79	
32 93 43 00-0645	EA		10' Pittosporum undulatum - Victorian Box.....	220.77	
32 93 43 00-0646	EA		6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	200.70	
32 93 43 00-0647	EA		8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	264.92	
32 93 43 00-0648	EA		10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	337.18	
32 93 43 00-0649	EA		12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	401.40	
32 93 43 00-0650	EA		24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	93.93	
32 93 43 00-0651	EA		1 Gallon Podocarpus macrophyllus - Yew Pine.....	3.73	
32 93 43 00-0652	EA		3 Gallon Podocarpus macrophyllus - Yew Pine.....	8.75	
32 93 43 00-0653	EA		5 Gallon Podocarpus macrophyllus - Yew Pine.....	11.48	
32 93 43 00-0654	EA		15 Gallon Podocarpus macrophyllus - Yew Pine.....	49.77	
32 93 43 00-0655	EA		24" Box Podocarpus macrophyllus - Yew Pine.....	96.34	
32 93 43 00-0656	EA		24" Box Rhus lancea - African Sumac.....	99.15	
32 93 43 00-0657	EA		30" Box Rhus lancea - African Sumac.....	160.56	
32 93 43 00-0658	EA		8' Rhus lancea - African Sumac.....	240.84	
32 93 43 00-0659	EA		10' Rhus lancea - African Sumac.....	268.94	
32 93 43 00-0660	EA		12' Rhus lancea - African Sumac.....	321.12	

**32 93 43 00-0661**

**Palm And Subtropical Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA		4' To 5' Archontophoenix cunninghamiana - King Palm.....	91.19	
32 93 43 00-0663	EA		6' To 8' Archontophoenix cunninghamiana - King Palm.....	141.85	
32 93 43 00-0664	EA		8' To 10' Archontophoenix cunninghamiana - King Palm.....	182.38	
32 93 43 00-0665	EA		10' To 12' Archontophoenix cunninghamiana - King Palm.....	243.17	
32 93 43 00-0666	EA		4' To 5' Arecastrum romanzoffianum - Queen Palm.....	69.08	
32 93 43 00-0667	EA		6' To 8' Arecastrum romanzoffianum - Queen Palm.....	96.72	
32 93 43 00-0668	EA		8' To 10' Arecastrum romanzoffianum - Queen Palm.....	124.35	
32 93 43 00-0669	EA		10' To 12' Arecastrum romanzoffianum - Queen Palm.....	151.98	
32 93 43 00-0670	EA		12' To 14' Arecastrum romanzoffianum - Queen Palm.....	184.22	



**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0671 EA 14' To 16' Arecastrum romanzoffianum - Queen Palm.....	230.28	
32 93 43 00-0672 EA 3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	193.43	
32 93 43 00-0673 EA 5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	303.96	
32 93 43 00-0674 EA 3' To 4' Chamaerops humilis - European Fan Palm.....	165.80	
32 93 43 00-0675 EA 5' To 6' Chamaerops humilis - European Fan Palm.....	221.06	
32 93 43 00-0676 EA 7' To 8' Chamaerops humilis - European Fan Palm.....	515.82	
32 93 43 00-0677 EA 9' To 10' Chamaerops humilis - European Fan Palm.....	884.26	
32 93 43 00-0678 EA 12' To 16' Cocos nucifera - Coconut Palm.....	388.47	
32 93 43 00-0679 EA 6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	128.95	
32 93 43 00-0680 EA 8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	257.91	
32 93 43 00-0681 EA 10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	331.60	
32 93 43 00-0682 EA 12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	460.55	
32 93 43 00-0683 EA 4' To 5' Rhaps excelsa - Lady Palm.....	350.02	
32 93 43 00-0684 EA 6' To 7' Rhaps excelsa - Lady Palm.....	497.39	
32 93 43 00-0685 EA 8' To 9' Roystonea regia - Royal Palm.....	281.86	
32 93 43 00-0686 EA 10' To 11' Roystonea regia - Royal Palm.....	344.49	
32 93 43 00-0687 EA 12' To 13' Roystonea regia - Royal Palm.....	407.13	
32 93 43 00-0688 EA 14' To 15' Roystonea regia - Royal Palm.....	469.76	
32 93 43 00-0689 EA 16' To 17' Roystonea regia - Royal Palm.....	532.40	
32 93 43 00-0690 EA 18' To 19' Roystonea regia - Royal Palm.....	595.03	
32 93 43 00-0691 EA 20' To 21' Roystonea regia - Royal Palm.....	657.67	
32 93 43 00-0692 EA 10' To 16' Sabal palmetto - Cabbage Palm.....	142.44	
32 93 43 00-0693 EA 6' To 7' Thrinax morrisii - Key Thatch Palm.....	386.86	
32 93 43 00-0694 EA 8' To 9' Thrinax morrisii - Key Thatch Palm.....	497.39	
32 93 43 00-0695 EA 10' To 11' Thrinax morrisii - Key Thatch Palm.....	607.93	
32 93 43 00-0696 EA 9' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	138.16	
32 93 43 00-0697 EA 11' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	230.28	
32 93 43 00-0698 EA 15' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	350.02	
32 93 43 00-0699 EA 17' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	396.07	
32 93 43 00-0700 EA 20' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	460.55	
32 93 43 00-0701 EA 4' To 5' Bauninia blakeana - Hong Kong Orchid.....	396.07	
32 93 43 00-0702 EA 6' Bauninia blakeana - Hong Kong Orchid.....	469.76	
32 93 43 00-0703 EA 8' Bauninia blakeana - Hong Kong Orchid.....	626.35	
32 93 43 00-0704 EA 10' Bauninia blakeana - Hong Kong Orchid.....	782.94	
32 93 43 00-0705 EA 4' To 5' Acacia baileyana - Bailey Acacia.....	219.68	
32 93 43 00-0706 EA 6' Acacia baileyana - Bailey Acacia.....	263.62	
32 93 43 00-0707 EA 8' Acacia baileyana - Bailey Acacia.....	307.55	
32 93 43 00-0708 EA 10' Acacia baileyana - Bailey Acacia.....	384.44	
32 93 43 00-0709 EA 6' Agonis flexuosa - Peppermint Tree.....	131.81	
32 93 43 00-0710 EA 8' Agonis flexuosa - Peppermint Tree.....	164.76	
32 93 43 00-0711 EA 10' Agonis flexuosa - Peppermint Tree.....	197.71	
32 93 43 00-0712 EA 24" Box Agonis flexuosa - Peppermint Tree.....	164.21	
32 93 43 00-0713 EA 6' Bauhinia purpurea - Purple Orchid Tree.....	497.39	
32 93 43 00-0714 EA 8' Bauhinia purpurea - Purple Orchid Tree.....	663.19	
32 93 43 00-0715 EA 10' Bauhinia purpurea - Purple Orchid Tree.....	828.99	
32 93 43 00-0716 EA 24" Box Bauhinia purpurea - Purple Orchid Tree.....	215.54	
32 93 43 00-0717 EA 6' Bauhinia variegata candida - White Orchid Tree.....	552.66	
32 93 43 00-0718 EA 8' Bauhinia variegata candida - White Orchid Tree.....	736.88	
32 93 43 00-0719 EA 10' Bauhinia variegata candida - White Orchid Tree.....	921.10	
32 93 43 00-0720 EA 6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	296.57	
32 93 43 00-0721 EA 8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	395.42	
32 93 43 00-0722 EA 10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	494.28	
32 93 43 00-0723 EA 6' Eriobotrya deflexa - Bronze Loquat.....	497.39	
32 93 43 00-0724 EA 8' Eriobotrya deflexa - Bronze Loquat.....	663.19	
32 93 43 00-0725 EA 10' Eriobotrya deflexa - Bronze Loquat.....	828.99	
32 93 43 00-0726 EA 6' Eucalyptus erythrocorys - Red Cap Gum.....	497.39	
32 93 43 00-0727 EA 8' Eucalyptus erythrocorys - Red Cap Gum.....	663.19	
32 93 43 00-0728 EA 10' Eucalyptus erythrocorys - Red Cap Gum.....	828.99	
32 93 43 00-0729 EA 6' Eucalyptus torquata - Coral Gum.....	497.39	
32 93 43 00-0730 EA 8' Eucalyptus torquata - Coral Gum.....	663.19	
32 93 43 00-0731 EA 10' Eucalyptus torquata - Coral Gum.....	828.99	
32 93 43 00-0732 EA 8' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	307.55	
32 93 43 00-0733 EA 10' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	417.39	
32 93 43 00-0734 EA 12' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	516.25	
32 93 43 00-0735 EA 1 Gallon Washingtonia robusta - Mexican Fan Palm.....	5.18	
32 93 43 00-0736 EA 5 Gallon Washingtonia robusta - Mexican Fan Palm.....	16.11	
32 93 43 00-0737 EA 15 Gallon Washingtonia robusta - Mexican Fan Palm.....	56.39	
32 93 43 00-0738 EA 24" Box Washingtonia robusta - Mexican Fan Palm.....	184.13	
32 93 43 00-0739 EA 36" Box Washingtonia robusta - Mexican Fan Palm.....	489.09	
32 93 43 00-0740 EA 6' Washingtonia robusta - Mexican Fan Palm.....	497.39	
32 93 43 00-0741 EA 8' Washingtonia robusta - Mexican Fan Palm.....	663.19	
32 93 43 00-0742 EA 10' Washingtonia robusta - Mexican Fan Palm.....	828.99	
32 93 43 00-0743 EA 12' Washingtonia robusta - Mexican Fan Palm.....	994.79	
32 93 43 00-0744 EA 6' Olea europaea - Olive "Fruitless".....	216.76	
32 93 43 00-0745 EA 8' Olea europaea - Olive "Fruitless".....	289.01	
32 93 43 00-0746 EA 10' Olea europaea - Olive "Fruitless".....	361.26	
32 93 43 00-0747 EA 12' Olea europaea - Olive "Fruitless".....	433.51	
32 93 43 00-0748 EA 24" Box Olea europaea - Olive "Fruitless".....	266.53	
32 93 43 00-0749 EA 6' Eucalyptus polyanthemos - Silver Dollar Gum.....	497.39	
32 93 43 00-0750 EA 8' Eucalyptus polyanthemos - Silver Dollar Gum.....	663.19	
32 93 43 00-0751 EA 10' Eucalyptus polyanthemos - Silver Dollar Gum.....	828.99	





		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0752 EA 6' Eucalyptus leucoxylon - White Ironbark .....	497.39	
32 93 43 00-0753 EA 8' Eucalyptus leucoxylon - White Ironbark .....	663.19	
32 93 43 00-0754 EA 10' Eucalyptus leucoxylon - White Ironbark .....	828.99	
32 93 43 00-0755 EA 12' Eucalyptus leucoxylon - White Ironbark .....	994.79	
32 93 43 00-0756 EA 6' Callistemon viminalis - Weeping Bottle Brush .....	296.57	
32 93 43 00-0757 EA 8' Callistemon viminalis - Weeping Bottle Brush .....	395.42	
32 93 43 00-0758 EA 10' Callistemon viminalis - Weeping Bottle Brush .....	494.28	
32 93 43 00-0759 EA 12' Callistemon viminalis - Weeping Bottle Brush .....	593.14	
32 93 43 00-0760 EA 6' Eucalyptus gunnii - Cider Gum .....	497.39	
32 93 43 00-0761 EA 8' Eucalyptus gunnii - Cider Gum .....	663.19	
32 93 43 00-0762 EA 10' Eucalyptus gunnii - Cider Gum .....	828.99	
32 93 43 00-0763 EA 6' Jacarandra acutifolia - Jacaranda .....	497.39	
32 93 43 00-0764 EA 8' Jacarandra acutifolia - Jacaranda .....	663.19	
32 93 43 00-0765 EA 10' Jacarandra acutifolia - Jacaranda .....	828.99	
32 93 43 00-0766 EA 24" Box Jacarandra acutifolia - Jacaranda .....	215.54	
32 93 43 00-0767 EA 5 Gallon Phoenix roebelenii - Pygmy Date Palm .....	19.71	
32 93 43 00-0768 EA 7 Gallon Phoenix roebelenii - Pygmy Date Palm .....	48.04	
32 93 43 00-0769 EA 15 Gallon Phoenix roebelenii - Pygmy Date Palm .....	72.68	
32 93 43 00-0770 EA 24" Box Phoenix roebelenii - Pygmy Date Palm .....	215.56	
32 93 43 00-0771 EA 5 Gallon Pistacia chinensis - Chinese Pistache .....	33.16	
32 93 43 00-0772 EA 15 Gallon Pistacia chinensis - Chinese Pistache .....	110.53	
32 93 43 00-0773 EA 24" Box Pistacia chinensis - Chinese Pistache .....	429.23	
32 93 43 00-0774 EA 36" Box Pistacia chinensis - Chinese Pistache .....	1,142.16	
32 93 43 00-0775 EA 48" Box Pistacia chinensis - Chinese Pistache .....	2,431.70	
32 93 43 00-0776 EA 5 Gallon Pyrus kawakamii - Evergreen Pear, Single .....	20.43	
32 93 43 00-0777 EA 15 Gallon Pyrus kawakamii - Evergreen Pear, Single .....	68.10	
32 93 43 00-0778 EA 24" Box Pyrus kawakamii - Evergreen Pear, Single .....	255.93	
32 93 43 00-0779 EA 30" Box Pyrus kawakamii - Evergreen Pear, Single .....	467.92	
32 93 43 00-0780 EA 36" Box Pyrus kawakamii - Evergreen Pear, Single .....	681.01	
32 93 43 00-0781 EA 5 Gallon Pyrus kawakamii - Evergreen Pear, Multi .....	20.43	
32 93 43 00-0782 EA 15 Gallon Pyrus kawakamii - Evergreen Pear, Multi .....	72.49	
32 93 43 00-0783 EA 24" Box Pyrus kawakamii - Evergreen Pear, Multi .....	263.62	
32 93 43 00-0784 EA 30" Box Pyrus kawakamii - Evergreen Pear, Multi .....	467.92	
32 93 43 00-0785 EA 36" Box Pyrus kawakamii - Evergreen Pear, Multi .....	681.01	

**32 93 83 Planting Of Trees, Shrubs And Ground Cover (32 93)**

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0002 EA 3" To 5" Bare Root Seedlings Tree Planting .....		1.15
32 93 83 00-0003 EA 6" To 10" Bare Root Seedlings Tree Planting .....		1.85
32 93 83 00-0004 EA 11" To 16" Bare Root Seedlings Tree Planting .....		2.31
32 93 83 00-0005 EA 17" To 24" Bare Root Seedlings Tree Planting .....		3.68
32 93 83 00-0006 EA 1 Gallon Container Tree Planting .....		18.42
<i>For &gt;10 To 25, Deduct</i>		
		-0.92
<i>For &gt;25 To 50, Deduct</i>		
		-2.30
<i>For &gt;50 To 100, Deduct</i>		
		-3.68
<i>For &gt;100, Deduct</i>		
		-5.53
32 93 83 00-0007 EA 2 Gallon Container Tree Planting .....		25.79
<i>For &gt;10 To 25, Deduct</i>		
		-1.29
<i>For &gt;25 To 50, Deduct</i>		
		-3.22
<i>For &gt;50 To 100, Deduct</i>		
		-5.16
<i>For &gt;100, Deduct</i>		
		-7.74
32 93 83 00-0008 EA 3 Gallon Container Tree Planting .....		33.16
<i>For &gt;10 To 25, Deduct</i>		
		-1.66
<i>For &gt;25 To 50, Deduct</i>		
		-4.15
<i>For &gt;50 To 100, Deduct</i>		
		-6.63
<i>For &gt;100, Deduct</i>		
		-9.95
32 93 83 00-0009 EA 5 Gallon Container Tree Planting .....		55.26
<i>For &gt;10 To 25, Deduct</i>		
		-2.76
<i>For &gt;25 To 50, Deduct</i>		
		-6.91
<i>For &gt;50 To 100, Deduct</i>		
		-11.05
<i>For &gt;100, Deduct</i>		
		-16.58
32 93 83 00-0010 EA 7 Gallon Container Tree Planting .....		73.69
<i>For &gt;10 To 25, Deduct</i>		
		-3.68
<i>For &gt;25 To 50, Deduct</i>		
		-9.21
<i>For &gt;50 To 100, Deduct</i>		
		-14.74
<i>For &gt;100, Deduct</i>		
		-22.11
32 93 83 00-0011 EA 10 Gallon Container Tree Planting .....		95.79
<i>For &gt;10 To 25, Deduct</i>		
		-4.79
<i>For &gt;25 To 50, Deduct</i>		
		-11.97
<i>For &gt;50 To 100, Deduct</i>		
		-19.16
<i>For &gt;100, Deduct</i>		
		-28.74
32 93 83 00-0012 EA 15 Gallon Container Tree Planting .....		136.31
<i>For &gt;10 To 25, Deduct</i>		
		-6.82
<i>For &gt;25 To 50, Deduct</i>		
		-17.04
<i>For &gt;50 To 100, Deduct</i>		
		-27.26
<i>For &gt;100, Deduct</i>		
		-40.89

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	224.74	
For >10 To 25, Deduct	-11.24	
For >25 To 50, Deduct	-28.09	
For >50 To 100, Deduct	-44.95	
For >100, Deduct	-67.42	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	291.06	
For >10 To 25, Deduct	-14.55	
For >25 To 50, Deduct	-36.38	
For >50 To 100, Deduct	-58.21	
For >100, Deduct	-87.32	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	350.00	
For >10 To 25, Deduct	-17.50	
For >25 To 50, Deduct	-43.75	
For >50 To 100, Deduct	-70.00	
For >100, Deduct	-105.00	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	434.74	
For >10 To 25, Deduct	-21.74	
For >25 To 50, Deduct	-54.34	
For >50 To 100, Deduct	-86.95	
For >100, Deduct	-130.42	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	515.79	
For >10 To 25, Deduct	-25.79	
For >25 To 50, Deduct	-64.47	
For >50 To 100, Deduct	-103.16	
For >100, Deduct	-154.74	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting.....	184.21	
For >10 To 25, Deduct	-9.21	
For >25 To 50, Deduct	-23.03	
For >50 To 100, Deduct	-36.84	
For >100, Deduct	-55.26	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting.....	245.38	
For >10 To 25, Deduct	-12.27	
For >25 To 50, Deduct	-30.67	
For >50 To 100, Deduct	-49.08	
For >100, Deduct	-73.61	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting.....	276.32	
For >10 To 25, Deduct	-13.82	
For >25 To 50, Deduct	-34.54	
For >50 To 100, Deduct	-55.26	
For >100, Deduct	-82.90	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting.....	322.37	
For >10 To 25, Deduct	-16.12	
For >25 To 50, Deduct	-40.30	
For >50 To 100, Deduct	-64.47	
For >100, Deduct	-96.71	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting.....	431.05	
For >10 To 25, Deduct	-21.55	
For >25 To 50, Deduct	-53.88	
For >50 To 100, Deduct	-86.21	
For >100, Deduct	-129.32	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting.....	493.69	
For >10 To 25, Deduct	-24.68	
For >25 To 50, Deduct	-61.71	
For >50 To 100, Deduct	-98.74	
For >100, Deduct	-148.11	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting.....	598.69	
For >10 To 25, Deduct	-29.93	
For >25 To 50, Deduct	-74.84	
For >50 To 100, Deduct	-119.74	
For >100, Deduct	-179.61	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting.....	718.43	
For >10 To 25, Deduct	-35.92	
For >25 To 50, Deduct	-89.80	
For >50 To 100, Deduct	-143.69	
For >100, Deduct	-215.53	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting.....	828.96	
For >10 To 25, Deduct	-41.45	
For >25 To 50, Deduct	-103.62	
For >50 To 100, Deduct	-165.79	
For >100, Deduct	-248.69	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting .....	276.32	
For >10 To 25, Deduct	-13.82	
For >25 To 50, Deduct	-34.54	
For >50 To 100, Deduct	-55.26	
For >100, Deduct	-82.90	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting.....	322.37	
For >10 To 25, Deduct	-16.12	
For >25 To 50, Deduct	-40.30	
For >50 To 100, Deduct	-64.47	
For >100, Deduct	-96.71	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting .....	432.90	
For >10 To 25, Deduct	-21.65	
For >25 To 50, Deduct	-54.11	
For >50 To 100, Deduct	-86.58	
For >100, Deduct	-129.87	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting .....	497.38	
For >10 To 25, Deduct	-24.87	
For >25 To 50, Deduct	-62.17	
For >50 To 100, Deduct	-99.48	
For >100, Deduct	-149.21	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting .....	552.64	
For >10 To 25, Deduct	-27.63	
For >25 To 50, Deduct	-69.08	
For >50 To 100, Deduct	-110.53	
For >100, Deduct	-165.79	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting .....	633.69	
For >10 To 25, Deduct	-31.68	
For >25 To 50, Deduct	-79.21	
For >50 To 100, Deduct	-126.74	
For >100, Deduct	-190.11	
<b>32 93 83 00-0033 Planting Shrubs <sup>(32 93 83)</sup></b>		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting.....	15.67	
For >10 To 25, Deduct	-0.78	
For >25 To 50, Deduct	-1.96	
For >50 To 100, Deduct	-3.13	
For >100, Deduct	-4.70	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting.....	22.11	
For >10 To 25, Deduct	-1.11	
For >25 To 50, Deduct	-2.76	
For >50 To 100, Deduct	-4.42	
For >100, Deduct	-6.63	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting.....	27.63	
For >10 To 25, Deduct	-1.38	
For >25 To 50, Deduct	-3.45	
For >50 To 100, Deduct	-5.53	
For >100, Deduct	-8.29	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting.....	36.84	
For >10 To 25, Deduct	-1.84	
For >25 To 50, Deduct	-4.61	
For >50 To 100, Deduct	-7.37	
For >100, Deduct	-11.05	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting.....	46.06	
For >10 To 25, Deduct	-2.30	
For >25 To 50, Deduct	-5.76	
For >50 To 100, Deduct	-9.21	
For >100, Deduct	-13.82	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting.....	62.64	
For >10 To 25, Deduct	-3.13	
For >25 To 50, Deduct	-7.83	
For >50 To 100, Deduct	-12.53	
For >100, Deduct	-18.79	
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting.....	82.89	
For >10 To 25, Deduct	-4.14	
For >25 To 50, Deduct	-10.36	
For >50 To 100, Deduct	-16.58	
For >100, Deduct	-24.87	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting.....	114.21	
For >10 To 25, Deduct	-5.71	
For >25 To 50, Deduct	-14.28	
For >50 To 100, Deduct	-22.84	
For >100, Deduct	-34.26	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting.....	191.59	
For >10 To 25, Deduct	-9.58	
For >25 To 50, Deduct	-23.95	
For >50 To 100, Deduct	-38.32	
For >100, Deduct	-57.48	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting.....	245.38	
For >10 To 25, Deduct	-12.27	
For >25 To 50, Deduct	-30.67	
For >50 To 100, Deduct	-49.08	
For >100, Deduct	-73.61	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting.....	51.58	
For >10 To 25, Deduct	-2.58	
For >25 To 50, Deduct	-6.45	
For >50 To 100, Deduct	-10.32	
For >100, Deduct	-15.47	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting.....	53.42	
For >10 To 25, Deduct	-2.67	
For >25 To 50, Deduct	-6.68	
For >50 To 100, Deduct	-10.68	
For >100, Deduct	-16.03	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting.....	58.94	
For >10 To 25, Deduct	-2.95	
For >25 To 50, Deduct	-7.37	
For >50 To 100, Deduct	-11.79	
For >100, Deduct	-17.68	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting.....	58.94	
For >10 To 25, Deduct	-2.95	
For >25 To 50, Deduct	-7.37	
For >50 To 100, Deduct	-11.79	
For >100, Deduct	-17.68	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting.....	64.47	
For >10 To 25, Deduct	-3.22	
For >25 To 50, Deduct	-8.06	
For >50 To 100, Deduct	-12.89	
For >100, Deduct	-19.34	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting.....	68.16	
For >10 To 25, Deduct	-3.41	
For >25 To 50, Deduct	-8.52	
For >50 To 100, Deduct	-13.63	
For >100, Deduct	-20.45	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting.....	73.69	
For >10 To 25, Deduct	-3.68	
For >25 To 50, Deduct	-9.21	
For >50 To 100, Deduct	-14.74	
For >100, Deduct	-22.11	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting .....	110.53	
For >10 To 25, Deduct	-5.53	
For >25 To 50, Deduct	-13.82	
For >50 To 100, Deduct	-22.11	
For >100, Deduct	-33.16	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting .....	156.58	
For >10 To 25, Deduct	-7.83	
For >25 To 50, Deduct	-19.57	
For >50 To 100, Deduct	-31.32	
For >100, Deduct	-46.97	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting .....	208.17	
For >10 To 25, Deduct	-10.41	
For >25 To 50, Deduct	-26.02	
For >50 To 100, Deduct	-41.63	
For >100, Deduct	-62.45	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting .....	235.80	
For >10 To 25, Deduct	-11.79	
For >25 To 50, Deduct	-29.48	
For >50 To 100, Deduct	-47.16	
For >100, Deduct	-70.74	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting .....	254.21	
For >10 To 25, Deduct	-12.71	
For >25 To 50, Deduct	-31.78	
For >50 To 100, Deduct	-50.84	
For >100, Deduct	-76.26	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting .....	276.32	
For >10 To 25, Deduct	-13.82	
For >25 To 50, Deduct	-34.54	
For >50 To 100, Deduct	-55.26	
For >100, Deduct	-82.90	
<b>32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83)</b>		
See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting .....	1.53	
For >10 To 25, Deduct	-0.08	
For >25 To 50, Deduct	-0.19	
For >50 To 100, Deduct	-0.31	
For >100, Deduct	-0.46	
32 93 83 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting .....	1.75	
For >10 To 25, Deduct	-0.09	
For >25 To 50, Deduct	-0.22	
For >50 To 100, Deduct	-0.35	
For >100, Deduct	-0.53	
32 93 83 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting .....	2.05	
For >10 To 25, Deduct	-0.10	
For >25 To 50, Deduct	-0.26	
For >50 To 100, Deduct	-0.41	
For >100, Deduct	-0.62	
32 93 83 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting .....	2.46	
For >10 To 25, Deduct	-0.12	
For >25 To 50, Deduct	-0.31	
For >50 To 100, Deduct	-0.49	
For >100, Deduct	-0.74	
32 93 83 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting .....	3.07	
For >10 To 25, Deduct	-0.15	
For >25 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.61	
For >100, Deduct	-0.92	
32 93 83 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting .....	4.60	
For >10 To 25, Deduct	-0.23	
For >25 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-0.92	
For >100, Deduct	-1.38	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0064	EA		1 Gallon Container Groundcover And Flower Planting .....	14.73	
			<i>For &gt;10 To 25, Deduct</i>	-0.74	
			<i>For &gt;25 To 50, Deduct</i>	-1.84	
			<i>For &gt;50 To 100, Deduct</i>	-2.95	
			<i>For &gt;100, Deduct</i>	-4.42	
32 93 83 00-0065	EA		2 Gallon Container Groundcover And Flower Planting .....	20.26	
			<i>For &gt;10 To 25, Deduct</i>	-1.01	
			<i>For &gt;25 To 50, Deduct</i>	-2.53	
			<i>For &gt;50 To 100, Deduct</i>	-4.05	
			<i>For &gt;100, Deduct</i>	-6.08	
32 93 83 00-0066	EA		3 Gallon Container Groundcover And Flower Planting .....	25.79	
			<i>For &gt;10 To 25, Deduct</i>	-1.29	
			<i>For &gt;25 To 50, Deduct</i>	-3.22	
			<i>For &gt;50 To 100, Deduct</i>	-5.16	
			<i>For &gt;100, Deduct</i>	-7.74	
32 93 83 00-0067	EA		4 Gallon Container Groundcover And Flower Planting .....	33.16	
			<i>For &gt;10 To 25, Deduct</i>	-1.66	
			<i>For &gt;25 To 50, Deduct</i>	-4.15	
			<i>For &gt;50 To 100, Deduct</i>	-6.63	
			<i>For &gt;100, Deduct</i>	-9.95	
32 93 83 00-0068	EA		5 Gallon Container Groundcover And Flower Planting .....	40.53	
			<i>For &gt;10 To 25, Deduct</i>	-2.03	
			<i>For &gt;25 To 50, Deduct</i>	-5.07	
			<i>For &gt;50 To 100, Deduct</i>	-8.11	
			<i>For &gt;100, Deduct</i>	-12.16	
32 93 83 00-0069	EA		7 Gallon Container Groundcover And Flower Planting .....	55.26	
			<i>For &gt;10 To 25, Deduct</i>	-2.76	
			<i>For &gt;25 To 50, Deduct</i>	-6.91	
			<i>For &gt;50 To 100, Deduct</i>	-11.05	
			<i>For &gt;100, Deduct</i>	-16.58	
32 93 83 00-0070	EA		Bulb Planting.....	0.92	
			<i>For &gt;10 To 25, Deduct</i>	-0.05	
			<i>For &gt;25 To 50, Deduct</i>	-0.12	
			<i>For &gt;50 To 100, Deduct</i>	-0.18	
			<i>For &gt;100, Deduct</i>	-0.28	
32 93 83 00-0071	EA		Flats Of 24 Groundcover And Flower Planting.....	25.79	
			<i>For &gt;10 To 25, Deduct</i>	-1.29	
			<i>For &gt;25, Deduct</i>	-3.22	
32 93 83 00-0072	EA		Flats Of 36 Groundcover And Flower Planting.....	36.58	
			<i>For &gt;10 To 25, Deduct</i>	-1.83	
			<i>For &gt;25, Deduct</i>	-4.57	
32 93 83 00-0073	EA		Flats Of 48 Groundcover And Flower Planting.....	48.70	
			<i>For &gt;10 To 25, Deduct</i>	-2.44	
			<i>For &gt;25, Deduct</i>	-6.09	

**32 93 83 00-0074**

**Tree Pits** (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 83 00-0075	EA		2' x 1-1/4' Deep Tree Pit.....	114.41	
32 93 83 00-0076	EA		2' x 2-1/2' Deep Tree Pit.....	171.59	
32 93 83 00-0077	EA		2-1/2' x 1-1/2' Deep Tree Pit .....	220.15	
32 93 83 00-0078	EA		2-1/2' x 3' Deep Tree Pit.....	330.17	
32 93 83 00-0079	EA		3' x 1-3/4' Deep Tree Pit.....	342.58	
32 93 83 00-0080	EA		3' x 3-1/2' Deep Tree Pit.....	511.59	
32 93 83 00-0081	EA		3-1/2' x 1-3/4' Deep Tree Pit .....	421.44	
32 93 83 00-0082	EA		3-1/2' x 3-1/2' Deep Tree Pit .....	631.41	
32 93 83 00-0083	EA		4' x 2' Deep Tree Pit.....	504.40	
32 93 83 00-0084	EA		4' x 4' Deep Tree Pit.....	756.25	
32 93 83 00-0085	EA		4-1/2' x 2' Deep Tree Pit.....	728.98	
32 93 83 00-0086	EA		4-1/2' x 4' Deep Tree Pit.....	1,095.30	
32 93 83 00-0087	EA		5' x 2-1/4' Deep Tree Pit.....	969.56	
32 93 83 00-0088	EA		5' x 4-1/2' Deep Tree Pit.....	1,445.64	
32 93 83 00-0089	EA		6' x 2-1/2' Deep Tree Pit.....	1,374.90	
32 93 83 00-0090	EA		6' x 5' Deep Tree Pit.....	2,059.74	
32 93 83 00-0091	EA		7' x 3' Deep Tree Pit.....	2,317.95	
32 93 83 00-0092	EA		7' x 6' Deep Tree Pit.....	3,492.73	
32 93 83 00-0093	EA		8' x 3-1/4' Deep Tree Pit.....	3,193.90	
32 93 83 00-0094	EA		8' x 6-1/2' Deep Tree Pit.....	4,789.11	

**32 94 Planting Accessories** (32 90)

**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

**32 94 13 00-0001 Landscape Edging** (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF		6" Poly/Vinyl Landscape Edging With Non-Round Top.....	3.95	0.94
			<i>For &gt;2,000 To 5,000 LF, Deduct</i>	-0.21	
			<i>For &gt;5,000 LF, Deduct</i>	-0.41	



**32 Exterior Improvements****32 90 Planting****32 94 Planting Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94	13 00-0003	LF	5" Polyethylene Landscape Edging With Round Top..... <i>For &gt;2,000 To 5,000 LF, Deduct</i> <i>For &gt;5,000 LF, Deduct</i>	2.53 -0.07 -0.13	0.94
32 94	13 00-0004	LF	5-1/2" Polyethylene Landscape Edging With Round Top..... <i>For &gt;2,000 To 5,000 LF, Deduct</i> <i>For &gt;5,000 LF, Deduct</i>	2.57 -0.07 -0.14	0.94
32 94	13 00-0005	LF	5" Polyethylene Landscape Edging With Corrugated Sides And Round Top..... <i>For &gt;2,000 To 5,000 LF, Deduct</i> <i>For &gt;5,000 LF, Deduct</i>	2.59 -0.07 -0.14	0.94
32 94	13 00-0006	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	7.09 -0.66	2.23
32 94	13 00-0007	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	7.64 -0.80	2.23
32 94	13 00-0008	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	7.68 -0.81	2.23
32 94	13 00-0009	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	8.66 -1.02	2.30
32 94	13 00-0010	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	9.34 -1.19	2.30
32 94	13 00-0011	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	9.32 -1.19	2.30
32 94	13 00-0012	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	7.88 -0.80	2.38
32 94	13 00-0013	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	8.63 -0.99	2.38
32 94	13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	8.71 -1.01	2.38
32 94	13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	9.68 -1.21	2.45
32 94	13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	10.43 -1.40	2.45
32 94	13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	10.50 -1.42	2.45
32 94	13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	7.51 -0.73	2.30
32 94	13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	8.62 -1.00	2.30
32 94	13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging..... <i>For &gt;1,000 LF, Deduct</i>	11.58 -1.74	2.30
32 94	13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For &gt;1,000 LF, Deduct</i>	5.90 -0.36	2.23
32 94	13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For &gt;1,000 LF, Deduct</i>	6.56 -0.53	2.23
32 94	13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For &gt;1,000 LF, Deduct</i>	7.14 -0.67	2.23
32 94	13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For &gt;1,000 LF, Deduct</i>	7.26 -0.70	2.23

**32 94 16 Landscape Timbers (32 94)**

32 94	16 00-0001	LF	1" x 4" Redwood Edging.....	4.44	1.48
32 94	16 00-0002	LF	2" x 4" Redwood Edging.....	6.10	2.21
32 94	16 00-0003	LF	4" x 6" Pressure Treated Hardwood.....	9.19	2.95
32 94	16 00-0004	LF	6" x 6" Pressure Treated Hardwood.....	12.06	3.69
32 94	16 00-0005	LF	6" x 8" Pressure Treated Hardwood.....	14.04	4.33
32 94	16 00-0006	LF	1" x 4" Pressure Treated Pine.....	3.51	1.48
32 94	16 00-0007	LF	2" x 4" Pressure Treated Pine.....	5.34	2.21
32 94	16 00-0008	LF	4" x 6" Pressure Treated Pine.....	8.72	2.86
32 94	16 00-0009	LF	6" x 6" Pressure Treated Pine.....	11.95	3.69
32 94	16 00-0010	LF	6" x 8" Pressure Treated Pine.....	14.69	4.33
32 94	16 00-0011	LF	6" x 8" Railroad Ties.....	12.75	4.15
32 94	16 00-0012	LF	7" x 9" Railroad Ties.....	15.36	5.21

**32 94 23 Plant Protection (32 94)**

32 94	23 00-0001	SF	Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge.....	1.90	
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**32 94 43 Tree Grates (32 94)****32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94	43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame.....	642.80	55.09
32 94	43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame.....	739.63	55.09
32 94	43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame.....	897.41	73.45
32 94	43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,108.18	73.45
32 94	43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame.....	1,419.75	91.82
32 94	43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame.....	1,496.34	110.18
32 94	43 00-0009	EA	60" Diameter, >350 LB Cast Iron Tree Grate With Frame.....	1,643.03	110.18
32 94	43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame.....	2,191.98	156.08
32 94	43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame.....	2,277.43	156.08
32 94	43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame.....	2,348.63	156.08



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Planting Accessories	32 94

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0013 EA 72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame .....	2,405.60	156.08
32 94 43 00-0014 EA 72" Diameter, >700 LB Cast Iron Tree Grate With Frame.....	2,448.32	156.08
32 94 43 00-0015 EA 93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame.....	2,691.40	183.63
<b>32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)</b>		
32 94 43 00-0017 EA 30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame .....	594.37	55.09
32 94 43 00-0018 EA 36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame .....	715.42	55.09
32 94 43 00-0019 EA 48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame .....	1,066.57	91.82
32 94 43 00-0020 EA 48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame .....	1,251.71	91.82
32 94 43 00-0021 EA 48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame .....	1,422.60	91.82
32 94 43 00-0022 EA 48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame .....	1,579.25	91.82
32 94 43 00-0023 EA 48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame .....	1,721.66	91.82
32 94 43 00-0024 EA 48" x 48", >400 LB Cast Iron Tree Grate With Frame .....	1,849.83	91.82
32 94 43 00-0025 EA 60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame .....	1,795.12	128.54
32 94 43 00-0026 EA 60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame .....	1,923.29	128.54
32 94 43 00-0027 EA 60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame .....	2,037.21	128.54
32 94 43 00-0028 EA 60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame .....	2,136.90	128.54
32 94 43 00-0029 EA 60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame .....	2,222.35	128.54
32 94 43 00-0030 EA 60" x 60", >600 LB Cast Iron Tree Grate With Frame .....	2,293.55	128.54
32 94 43 00-0031 EA 72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame .....	2,191.98	156.08
32 94 43 00-0032 EA 72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame .....	2,277.43	156.08
32 94 43 00-0033 EA 72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame .....	2,348.63	156.08
32 94 43 00-0034 EA 72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame .....	2,405.60	156.08
32 94 43 00-0035 EA 72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame .....	2,448.32	156.08
32 94 43 00-0036 EA 72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame .....	2,476.80	156.08
32 94 43 00-0037 EA 72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame .....	2,491.04	156.08
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame .....	2,505.28	156.08
<b>32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)</b>		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame .....	1,108.18	73.45
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame .....	1,129.54	73.45
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame .....	1,381.30	91.82
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame .....	1,619.12	91.82
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame .....	1,721.66	91.82
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame .....	2,320.15	156.08
<b>32 94 49 Plant And Tree Accessories (32 94)</b>		
<b>32 94 49 00-0001 Tree Guying (32 94 49)</b>		
<b>32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)</b>		
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap .....	20.47	
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap.....	36.21	
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap.....	62.28	
<b>32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)</b>		
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope .....	86.37	
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope .....	116.55	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope .....	149.42	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope .....	192.82	
<b>32 94 49 00-0011 Tree Wrap (32 94 49)</b>		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree .....	5.46	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree .....	8.99	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree .....	17.65	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree .....	26.89	
<b>32 94 49 00-0016 Tree Guards (32 94 49)</b>		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....	9.28	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....	8.51	
<b>32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)</b>		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs.....	5.63	
<b>32 94 49 00-0021 Root Barriers (32 94 49)</b>		
32 94 49 00-0022 EA 12" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	8.27	
32 94 49 00-0023 EA 18" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	11.40	
32 94 49 00-0024 EA 24" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	13.39	
32 94 49 00-0025 EA 36" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	24.43	
32 94 49 00-0026 EA 48" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	33.49	

**32 Exterior Improvements****32 90 Planting****32 94 Planting Accessories**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**32 96 Transplanting** (32 90)

See CSI section 32 94 49 00-0001 for guying.

**32 96 33 Shrub Transplanting** (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

**32 96 33 00-0001 Moving Shrubs On Site, Relocate** (32 96 33)

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002	EA	Up To 18" Root Ball, Move Shrubs On Site.....	62.86
		<i>For &gt;25 To 50, Deduct</i>	-6.29
		<i>For &gt;50, Deduct</i>	-9.43
32 96 33 00-0003	EA	>18" To 24" Root Ball, Move Shrubs On Site.....	85.05
		<i>For &gt;25 To 50, Deduct</i>	-8.51
		<i>For &gt;50, Deduct</i>	-12.76
32 96 33 00-0004	EA	>24" To 30" Root Ball, Move Shrubs On Site.....	144.21
		<i>For &gt;25 To 50, Deduct</i>	-14.42
		<i>For &gt;50, Deduct</i>	-21.63
32 96 33 00-0005	EA	>30" To 36" Root Ball, Move Shrubs On Site.....	221.88
		<i>For &gt;25 To 50, Deduct</i>	-22.19
		<i>For &gt;50, Deduct</i>	-33.28

**32 96 43 Tree Transplanting** (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

**32 96 43 00-0001 Moving Trees On Site, Relocate** (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0844 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002	EA	Up To 24" Root Ball, Move Trees On Site.....	236.60
		<i>For &gt;5 To 10, Deduct</i>	-11.83
		<i>For &gt;10 To 20, Deduct</i>	-23.66
		<i>For &gt;20, Deduct</i>	-35.49
32 96 43 00-0003	EA	>24" To 30" Root Ball, Move Trees On Site.....	324.49
		<i>For &gt;5 To 10, Deduct</i>	-16.22
		<i>For &gt;10 To 20, Deduct</i>	-32.45
		<i>For &gt;20, Deduct</i>	-48.67
32 96 43 00-0004	EA	>30" To 36" Root Ball, Move Trees On Site.....	525.80
		<i>For &gt;5 To 10, Deduct</i>	-26.29
		<i>For &gt;10 To 20, Deduct</i>	-52.58
		<i>For &gt;20, Deduct</i>	-78.87
32 96 43 00-0005	EA	>36" To 48" Root Ball, Move Trees On Site.....	873.63
		<i>For &gt;5 To 10, Deduct</i>	-43.68
		<i>For &gt;10 To 20, Deduct</i>	-87.36
		<i>For &gt;20, Deduct</i>	-131.04
32 96 43 00-0006	EA	>48" To 60" Root Ball, Move Trees On Site.....	1,419.64
		<i>For &gt;5 To 10, Deduct</i>	-70.98
		<i>For &gt;10 To 20, Deduct</i>	-141.96
		<i>For &gt;20, Deduct</i>	-212.95
32 96 43 00-0007	EA	>60" To 72" Root Ball, Move Trees On Site.....	1,831.80
		<i>For &gt;5 To 10, Deduct</i>	-91.59
		<i>For &gt;10 To 20, Deduct</i>	-183.18
		<i>For &gt;20, Deduct</i>	-274.77
32 96 43 00-0008	EA	>72" To 84" Root Ball, Move Trees On Site.....	2,366.08
		<i>For &gt;5 To 10, Deduct</i>	-118.30
		<i>For &gt;10 To 20, Deduct</i>	-236.61
		<i>For &gt;20, Deduct</i>	-354.91
32 96 43 00-0009	EA	>84" To 96" Root Ball, Move Trees On Site.....	2,839.30
		<i>For &gt;5 To 10, Deduct</i>	-141.97
		<i>For &gt;10 To 20, Deduct</i>	-283.93
		<i>For &gt;20, Deduct</i>	-425.90
32 96 43 00-0010	EA	>96" To 120" Root Ball, Move Trees On Site.....	3,226.47
		<i>For &gt;5 To 10, Deduct</i>	-161.32
		<i>For &gt;10 To 20, Deduct</i>	-322.65
		<i>For &gt;20, Deduct</i>	-483.97

**END OF SECTION 32**



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 33 Utilities

#### 33 01 Operation And Maintenance Of Utilities <sup>(33)</sup>

#### 33 01 10 Operation And Maintenance Of Water Utilities <sup>(33 01)</sup>

#### 33 01 10 54 **Cleaning of Water Utility Piping** <sup>(33 01 10)</sup>

See CSI section 33 01 30 41-0006 for cleaning of water lines.

#### 33 01 10 58 **Disinfection of Water Utility Piping Systems** <sup>(33 01 10)</sup>

#### 33 01 10 58-0001 **Water Main Disinfection/Sterilization** <sup>(33 01 10 58)</sup>

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method.....	833.04	
33 01 10 58-0003	EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method .....	416.53	
33 01 10 58-0004	LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization .....	0.31	
	<i>For &gt;250 To 500, Deduct</i>	-0.02	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.03	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.05	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.06	
	<i>For &gt;5,000, Deduct</i>	-0.08	
33 01 10 58-0005	LF 6" Diameter Pipe Water Main Disinfection/Sterilization .....	0.48	
	<i>For &gt;250 To 500, Deduct</i>	-0.02	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.05	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.07	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.10	
	<i>For &gt;5,000, Deduct</i>	-0.12	
33 01 10 58-0006	LF 8" Diameter Pipe Water Main Disinfection/Sterilization .....	0.63	
	<i>For &gt;250 To 500, Deduct</i>	-0.03	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.06	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.09	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.13	
	<i>For &gt;5,000, Deduct</i>	-0.16	
33 01 10 58-0007	LF 10" Diameter Pipe Water Main Disinfection/Sterilization .....	0.74	
	<i>For &gt;250 To 500, Deduct</i>	-0.04	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.07	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.11	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.15	
	<i>For &gt;5,000, Deduct</i>	-0.19	
33 01 10 58-0008	LF 12" Diameter Pipe Water Main Disinfection/Sterilization .....	0.96	
	<i>For &gt;250 To 500, Deduct</i>	-0.05	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.10	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.14	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.19	
	<i>For &gt;5,000, Deduct</i>	-0.24	
33 01 10 58-0009	LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization .....	1.08	
	<i>For &gt;250 To 500, Deduct</i>	-0.05	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.11	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.16	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.22	
	<i>For &gt;5,000, Deduct</i>	-0.27	
33 01 10 58-0010	LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization .....	1.25	
	<i>For &gt;250 To 500, Deduct</i>	-0.06	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.13	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.19	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.25	
	<i>For &gt;5,000, Deduct</i>	-0.31	
33 01 10 58-0011	LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization .....	1.47	
	<i>For &gt;250 To 500, Deduct</i>	-0.07	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.15	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.22	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.29	
	<i>For &gt;5,000, Deduct</i>	-0.37	
33 01 10 58-0012	LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization .....	1.89	
	<i>For &gt;250 To 500, Deduct</i>	-0.09	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.19	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.28	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.38	
	<i>For &gt;5,000, Deduct</i>	-0.47	
33 01 10 58-0013	LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization .....	2.78	
	<i>For &gt;250 To 500, Deduct</i>	-0.14	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.28	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.42	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.56	
	<i>For &gt;5,000, Deduct</i>	-0.70	
33 01 10 58-0014	LF >60" Diameter Pipe Water Main Disinfection/Sterilization .....	3.84	
	<i>For &gt;250 To 500, Deduct</i>	-0.19	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.38	
	<i>For &gt;1,000 To 2,000, Deduct</i>	-0.58	
	<i>For &gt;2,000 To 5,000, Deduct</i>	-0.77	
	<i>For &gt;5,000, Deduct</i>	-0.96	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 10 Operation And Maintenance Of Water Utilities**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST
**33 01 10 71 Relining Water Utilities Pipelines** (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		4,162.49
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location		1,665.00
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement		52.17
	For 3/16" Thickness, Add		0.58
	For 1/4" Thickness, Add		1.16
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		46.40
	For 3/16" Thickness, Add		0.58
	For 1/4" Thickness, Add		1.16
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		38.69
	For 3/16" Thickness, Add		0.58
	For 1/4" Thickness, Add		1.16
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement		28.99
	For 3/16" Thickness, Add		0.58
	For 1/4" Thickness, Add		1.16
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement		54.05
	For 3/16" Thickness, Add		0.87
	For 1/4" Thickness, Add		1.73
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		48.07
	For 3/16" Thickness, Add		0.87
	For 1/4" Thickness, Add		1.73
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		40.09
	For 3/16" Thickness, Add		0.87
	For 1/4" Thickness, Add		1.73
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement		30.27
	For 3/16" Thickness, Add		0.87
	For 1/4" Thickness, Add		1.73
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement		55.87
	For 3/16" Thickness, Add		1.16
	For 1/4" Thickness, Add		2.31
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		49.76
	For 3/16" Thickness, Add		1.16
	For 1/4" Thickness, Add		2.31
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		41.51
	For 3/16" Thickness, Add		1.16
	For 1/4" Thickness, Add		2.31
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		31.56
	For 3/16" Thickness, Add		1.16
	For 1/4" Thickness, Add		2.31
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement		57.20
	For 3/16" Thickness, Add		1.45
	For 1/4" Thickness, Add		2.89
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		50.99
	For 3/16" Thickness, Add		1.45
	For 1/4" Thickness, Add		2.89
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		42.62
	For 3/16" Thickness, Add		1.45
	For 1/4" Thickness, Add		2.89
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement		32.84
	For 3/16" Thickness, Add		1.45
	For 1/4" Thickness, Add		2.89
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement		61.70
	For 3/16" Thickness, Add		1.74
	For 1/4" Thickness, Add		3.47
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		55.10
	For 3/16" Thickness, Add		1.74
	For 1/4" Thickness, Add		3.47
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		46.19
	For 3/16" Thickness, Add		1.74
	For 1/4" Thickness, Add		3.47
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement		35.62
	For 3/16" Thickness, Add		1.74
	For 1/4" Thickness, Add		3.47
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		65.79
	For 1/4" Thickness, Add		1.93
	For 5/16" Thickness, Add		3.86
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		58.93
	For 1/4" Thickness, Add		1.93
	For 5/16" Thickness, Add		3.86
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		49.66
	For 1/4" Thickness, Add		1.93
	For 5/16" Thickness, Add		3.86
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		39.53
	For 1/4" Thickness, Add		1.93
	For 5/16" Thickness, Add		3.86





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement .....	68.68	
<i>For 1/4" Thickness, Add</i>	2.31	
<i>For 5/16" Thickness, Add</i>	4.62	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement .....	61.63	
<i>For 1/4" Thickness, Add</i>	2.31	
<i>For 5/16" Thickness, Add</i>	4.62	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement .....	52.04	
<i>For 1/4" Thickness, Add</i>	2.31	
<i>For 5/16" Thickness, Add</i>	4.62	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement .....	42.44	
<i>For 1/4" Thickness, Add</i>	2.31	
<i>For 5/16" Thickness, Add</i>	4.62	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement .....	72.39	
<i>For 1/4" Thickness, Add</i>	2.70	
<i>For 5/16" Thickness, Add</i>	5.39	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement .....	65.10	
<i>For 1/4" Thickness, Add</i>	2.70	
<i>For 5/16" Thickness, Add</i>	5.39	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement .....	55.05	
<i>For 1/4" Thickness, Add</i>	2.70	
<i>For 5/16" Thickness, Add</i>	5.39	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement .....	46.06	
<i>For 1/4" Thickness, Add</i>	2.70	
<i>For 5/16" Thickness, Add</i>	5.39	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement .....	76.20	
<i>For 1/4" Thickness, Add</i>	3.08	
<i>For 5/16" Thickness, Add</i>	6.17	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	68.59	
<i>For 1/4" Thickness, Add</i>	3.08	
<i>For 5/16" Thickness, Add</i>	6.17	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	58.23	
<i>For 1/4" Thickness, Add</i>	3.08	
<i>For 5/16" Thickness, Add</i>	6.17	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	49.86	
<i>For 1/4" Thickness, Add</i>	3.08	
<i>For 5/16" Thickness, Add</i>	6.17	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement .....	81.07	
<i>For 1/4" Thickness, Add</i>	3.85	
<i>For 5/16" Thickness, Add</i>	7.71	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	73.02	
<i>For 1/4" Thickness, Add</i>	3.85	
<i>For 5/16" Thickness, Add</i>	7.71	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	62.04	
<i>For 1/4" Thickness, Add</i>	3.85	
<i>For 5/16" Thickness, Add</i>	7.71	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	53.59	
<i>For 1/4" Thickness, Add</i>	3.85	
<i>For 5/16" Thickness, Add</i>	7.71	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement .....	85.86	
<i>For 1/4" Thickness, Add</i>	4.63	
<i>For 5/16" Thickness, Add</i>	9.25	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	77.46	
<i>For 1/4" Thickness, Add</i>	4.63	
<i>For 5/16" Thickness, Add</i>	9.25	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	65.85	
<i>For 1/4" Thickness, Add</i>	4.63	
<i>For 5/16" Thickness, Add</i>	9.25	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	57.31	
<i>For 1/4" Thickness, Add</i>	4.63	
<i>For 5/16" Thickness, Add</i>	9.25	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement .....	102.95	
<i>For 3/8" Thickness, Add</i>	12.14	
<i>For 7/16" Thickness, Add</i>	18.21	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement .....	93.80	
<i>For 3/8" Thickness, Add</i>	12.14	
<i>For 7/16" Thickness, Add</i>	18.21	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement .....	81.19	
<i>For 3/8" Thickness, Add</i>	12.14	
<i>For 7/16" Thickness, Add</i>	18.21	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement .....	72.38	
<i>For 3/8" Thickness, Add</i>	12.14	
<i>For 7/16" Thickness, Add</i>	18.21	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement .....	113.03	
<i>For 3/8" Thickness, Add</i>	13.88	
<i>For 7/16" Thickness, Add</i>	20.81	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement .....	103.24	
<i>For 3/8" Thickness, Add</i>	13.88	
<i>For 7/16" Thickness, Add</i>	20.81	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement .....	89.68	
<i>For 3/8" Thickness, Add</i>	13.88	
<i>For 7/16" Thickness, Add</i>	20.81	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement .....	80.70	
<i>For 3/8" Thickness, Add</i>	13.88	
<i>For 7/16" Thickness, Add</i>	20.81	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 10 Operation And Maintenance Of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	118.07	
For 3/8" Thickness, Add	15.61	
For 7/16" Thickness, Add	23.41	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement.....	108.08	
For 3/8" Thickness, Add	15.61	
For 7/16" Thickness, Add	23.41	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement.....	94.20	
For 3/8" Thickness, Add	15.61	
For 7/16" Thickness, Add	23.41	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement .....	85.57	
For 3/8" Thickness, Add	15.61	
For 7/16" Thickness, Add	23.41	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	123.13	
For 3/8" Thickness, Add	17.35	
For 7/16" Thickness, Add	26.02	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	112.96	
For 3/8" Thickness, Add	17.35	
For 7/16" Thickness, Add	26.02	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	98.82	
For 3/8" Thickness, Add	17.35	
For 7/16" Thickness, Add	26.02	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement .....	90.45	
For 3/8" Thickness, Add	17.35	
For 7/16" Thickness, Add	26.02	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	128.46	
For 3/8" Thickness, Add	19.08	
For 7/16" Thickness, Add	28.62	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	118.06	
For 3/8" Thickness, Add	19.08	
For 7/16" Thickness, Add	28.62	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	103.70	
For 3/8" Thickness, Add	19.08	
For 7/16" Thickness, Add	28.62	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement .....	95.95	
For 3/8" Thickness, Add	19.08	
For 7/16" Thickness, Add	28.62	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	134.13	
For 3/8" Thickness, Add	20.82	
For 7/16" Thickness, Add	31.22	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	123.56	
For 3/8" Thickness, Add	20.82	
For 7/16" Thickness, Add	31.22	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	108.84	
For 3/8" Thickness, Add	20.82	
For 7/16" Thickness, Add	31.22	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement .....	101.53	
For 3/8" Thickness, Add	20.82	
For 7/16" Thickness, Add	31.22	

**33 01 30 Operation And Maintenance Of Sewer Utilities (33 01)****33 01 30 11 Television Inspection Of Pipelines (33 01 30)**

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

**33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)****33 01 30 11-0002 Video Camera Set-up (33 01 30 11-0001)**

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....	705.39	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,410.77	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert .....	2,116.16	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....	352.69	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert.....	705.39	

**33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)**

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase .....	1.78	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.18	
For >1,000 To 5,000, Deduct	-0.45	
For >5,000, Deduct	-0.62	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase .....	2.39	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.24	
For >1,000 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-0.84	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase .....	2.98	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-1.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.97	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.39	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.59	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 5,000, Deduct	-1.40	
For >5,000, Deduct	-1.96	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.45	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.75	
For >1,000 To 5,000, Deduct	-1.86	
For >5,000, Deduct	-2.61	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.52	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 5,000, Deduct	-2.63	
For >5,000, Deduct	-3.68	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.90	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.49	
For >1,000 To 5,000, Deduct	-3.73	
For >5,000, Deduct	-5.22	
<b>33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts</b> (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	2.65	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.27	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-0.93	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.53	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 5,000, Deduct	-0.88	
For >5,000, Deduct	-1.24	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	4.41	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.44	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.54	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	5.88	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 5,000, Deduct	-1.47	
For >5,000, Deduct	-2.06	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	8.27	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.83	
For >1,000 To 5,000, Deduct	-2.07	
For >5,000, Deduct	-2.89	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	11.03	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.10	
For >1,000 To 5,000, Deduct	-2.76	
For >5,000, Deduct	-3.86	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	15.56	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 5,000, Deduct	-3.89	
For >5,000, Deduct	-5.45	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	22.04	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.20	
For >1,000 To 5,000, Deduct	-5.51	
For >5,000, Deduct	-7.71	
<b>33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts</b> (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	1.89	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.19	
For >1,000 To 5,000, Deduct	-0.47	
For >5,000, Deduct	-0.66	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.52	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.25	
For >1,000 To 5,000, Deduct	-0.63	
For >5,000, Deduct	-0.88	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.14	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 5,000, Deduct	-0.79	
For >5,000, Deduct	-1.10	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase .....	4.20	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 5,000, Deduct	-1.05	
For >5,000, Deduct	-1.47	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase .....	5.90	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 5,000, Deduct	-1.48	
For >5,000, Deduct	-2.07	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase .....	7.87	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.79	
For >1,000 To 5,000, Deduct	-1.97	
For >5,000, Deduct	-2.75	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase .....	11.11	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.11	
For >1,000 To 5,000, Deduct	-2.78	
For >5,000, Deduct	-3.89	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase .....	15.74	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.57	
For >1,000 To 5,000, Deduct	-3.94	
For >5,000, Deduct	-5.51	
<b>33 01 30 41 Cleaning of Sewers (33 01 30)</b>		
<b>33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)</b>		
Note: Includes flushing. Owner provided water.		
<b>33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)</b>		
Note: Includes removal of all debris/waste. Excludes disposal.		
<b>33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)</b>		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning .....	2,230.02	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning .....	557.50	
<b>33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)</b>		
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	3.00	
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 2,000, Deduct	-0.45	
For >2,000 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-0.75	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.25	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	3.44	
For >250 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.34	
For >1,000 To 2,000, Deduct	-0.52	
For >2,000 To 5,000, Deduct	-0.69	
For >5,000, Deduct	-0.86	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.58	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	4.04	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 2,000, Deduct	-0.61	
For >2,000 To 5,000, Deduct	-0.81	
For >5,000, Deduct	-1.01	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.03	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	4.99	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.50	
For >1,000 To 2,000, Deduct	-0.75	
For >2,000 To 5,000, Deduct	-1.00	
For >5,000, Deduct	-1.25	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.74	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	5.67	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.57	
For >1,000 To 2,000, Deduct	-0.85	
For >2,000 To 5,000, Deduct	-1.13	
For >5,000, Deduct	-1.42	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.25	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	6.54	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.65	
For >1,000 To 2,000, Deduct	-0.98	
For >2,000 To 5,000, Deduct	-1.31	
For >5,000, Deduct	-1.64	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	7.88	
<i>For &gt;250 To 500, Deduct</i>	-0.39	
<i>For &gt;500 To 1,000, Deduct</i>	-0.79	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.18	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.58	
<i>For &gt;5,000, Deduct</i>	-1.97	
<i>For Heavy Cleaning, &gt;4 Passes (Includes Attached Mechanical Device), Add</i>	5.91	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	8.93	
<i>For &gt;250 To 500, Deduct</i>	-0.45	
<i>For &gt;500 To 1,000, Deduct</i>	-0.89	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.34	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.79	
<i>For &gt;5,000, Deduct</i>	-2.23	
<i>For Heavy Cleaning, &gt;4 Passes (Includes Attached Mechanical Device), Add</i>	6.70	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	10.56	
<i>For &gt;250 To 500, Deduct</i>	-0.53	
<i>For &gt;500 To 1,000, Deduct</i>	-1.06	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.58	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.11	
<i>For &gt;5,000, Deduct</i>	-2.64	
<i>For Heavy Cleaning, &gt;4 Passes (Includes Attached Mechanical Device), Add</i>	7.92	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	13.27	
<i>For &gt;250 To 500, Deduct</i>	-0.66	
<i>For &gt;500 To 1,000, Deduct</i>	-1.33	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.99	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.65	
<i>For &gt;5,000, Deduct</i>	-3.32	
<i>For Heavy Cleaning, &gt;4 Passes (Includes Attached Mechanical Device), Add</i>	9.95	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	15.49	
<i>For &gt;250 To 500, Deduct</i>	-0.77	
<i>For &gt;500 To 1,000, Deduct</i>	-1.55	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.32	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.10	
<i>For &gt;5,000, Deduct</i>	-3.87	
<i>For Heavy Cleaning, &gt;4 Passes (Includes Attached Mechanical Device), Add</i>	11.62	
<b>33 01 30 41-0018 Flushing Of Storm Water Pipelines</b> <small>(33 01 30 41-0002)</small>		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing .....	1.18	
<i>For &gt;250 To 500, Deduct</i>	-0.06	
<i>For &gt;500 To 1,000, Deduct</i>	-0.12	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.18	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.24	
<i>For &gt;5,000, Deduct</i>	-0.30	
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing .....	1.36	
<i>For &gt;250 To 500, Deduct</i>	-0.07	
<i>For &gt;500 To 1,000, Deduct</i>	-0.14	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.20	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.27	
<i>For &gt;5,000, Deduct</i>	-0.34	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing .....	1.60	
<i>For &gt;250 To 500, Deduct</i>	-0.08	
<i>For &gt;500 To 1,000, Deduct</i>	-0.16	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.24	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.32	
<i>For &gt;5,000, Deduct</i>	-0.40	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing .....	1.85	
<i>For &gt;250 To 500, Deduct</i>	-0.09	
<i>For &gt;500 To 1,000, Deduct</i>	-0.19	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.28	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.37	
<i>For &gt;5,000, Deduct</i>	-0.46	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing .....	2.46	
<i>For &gt;250 To 500, Deduct</i>	-0.12	
<i>For &gt;500 To 1,000, Deduct</i>	-0.25	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.37	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.49	
<i>For &gt;5,000, Deduct</i>	-0.62	
<b>33 01 30 41-0024 Hydro Jet Cleaning Of Culverts</b> <small>(33 01 30 41-0002)</small>		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF .....	13.87	
<i>For &gt;250 To 500, Deduct</i>	-0.69	
<i>For &gt;500 To 1,000, Deduct</i>	-1.39	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.08	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.77	
<i>For &gt;5,000, Deduct</i>	-3.47	
<b>33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method</b> <small>(33 01 30 41-0001)</small>		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning .....	999.66	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location .....	333.22	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method.....	5.72	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 2,000, Deduct	-0.83	
For >2,000 To 5,000, Deduct	-1.11	
For >5,000, Deduct	-1.39	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method.....	7.49	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 2,000, Deduct	-1.07	
For >2,000 To 5,000, Deduct	-1.43	
For >5,000, Deduct	-1.79	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method.....	8.76	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.83	
For >1,000 To 2,000, Deduct	-1.25	
For >2,000 To 5,000, Deduct	-1.67	
For >5,000, Deduct	-2.08	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method.....	10.14	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.96	
For >1,000 To 2,000, Deduct	-1.44	
For >2,000 To 5,000, Deduct	-1.92	
For >5,000, Deduct	-2.41	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method.....	11.02	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 2,000, Deduct	-1.56	
For >2,000 To 5,000, Deduct	-2.08	
For >5,000, Deduct	-2.61	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	12.68	
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-1.79	
For >2,000 To 5,000, Deduct	-2.38	
For >5,000, Deduct	-2.98	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	15.91	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.21	
For >2,000 To 5,000, Deduct	-2.94	
For >5,000, Deduct	-3.68	
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	18.12	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.64	
For >1,000 To 2,000, Deduct	-2.46	
For >2,000 To 5,000, Deduct	-3.28	
For >5,000, Deduct	-4.10	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	21.02	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.89	
For >1,000 To 2,000, Deduct	-2.83	
For >2,000 To 5,000, Deduct	-3.77	
For >5,000, Deduct	-4.72	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	27.58	
For >250 To 500, Deduct	-1.25	
For >500 To 1,000, Deduct	-2.50	
For >1,000 To 2,000, Deduct	-3.75	
For >2,000 To 5,000, Deduct	-5.00	
For >5,000, Deduct	-6.25	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....	31.22	
For >250 To 500, Deduct	-1.39	
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 2,000, Deduct	-4.17	
For >2,000 To 5,000, Deduct	-5.55	
For >5,000, Deduct	-6.94	
<b>33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)</b>		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring.....	999.66	
33 01 30 41-0042 EA Move And Reset Up At Different Location.....	333.22	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.33	
For >250 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 2,000, Deduct	-0.50	
For >2,000 To 5,000, Deduct	-0.67	
For >5,000, Deduct	-0.83	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out.....	4.31	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.43	
For >1,000 To 2,000, Deduct	-0.65	
For >2,000 To 5,000, Deduct	-0.86	
For >5,000, Deduct	-1.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out.....	5.00	
<i>For &gt;250 To 500, Deduct</i>	-0.25	
<i>For &gt;500 To 1,000, Deduct</i>	-0.50	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.75	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.00	
<i>For &gt;5,000, Deduct</i>	-1.25	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out.....	5.81	
<i>For &gt;250 To 500, Deduct</i>	-0.29	
<i>For &gt;500 To 1,000, Deduct</i>	-0.58	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.87	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.16	
<i>For &gt;5,000, Deduct</i>	-1.45	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out.....	6.25	
<i>For &gt;250 To 500, Deduct</i>	-0.31	
<i>For &gt;500 To 1,000, Deduct</i>	-0.63	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.94	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.25	
<i>For &gt;5,000, Deduct</i>	-1.56	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	7.14	
<i>For &gt;250 To 500, Deduct</i>	-0.36	
<i>For &gt;500 To 1,000, Deduct</i>	-0.71	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.07	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.43	
<i>For &gt;5,000, Deduct</i>	-1.79	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	8.77	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500 To 1,000, Deduct</i>	-0.88	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.32	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.75	
<i>For &gt;5,000, Deduct</i>	-2.19	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	9.80	
<i>For &gt;250 To 500, Deduct</i>	-0.49	
<i>For &gt;500 To 1,000, Deduct</i>	-0.98	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.47	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.96	
<i>For &gt;5,000, Deduct</i>	-2.45	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	11.36	
<i>For &gt;250 To 500, Deduct</i>	-0.57	
<i>For &gt;500 To 1,000, Deduct</i>	-1.14	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.70	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.27	
<i>For &gt;5,000, Deduct</i>	-2.84	
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	15.62	
<i>For &gt;250 To 500, Deduct</i>	-0.78	
<i>For &gt;500 To 1,000, Deduct</i>	-1.56	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.34	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.12	
<i>For &gt;5,000, Deduct</i>	-3.91	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out.....	16.66	
<i>For &gt;250 To 500, Deduct</i>	-0.83	
<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.50	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.33	
<i>For &gt;5,000, Deduct</i>	-4.17	

**33 01 30 42 Cleaning of Manholes (33 01 30)**

**33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)**

Note: Includes flushing. Owner provided water.

**33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)**

33 01 30 42-0003 EA Rod Out Waste Water Drain .....	44.05	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin .....	88.10	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage .....	17.62	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage .....	19.38	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage .....	22.02	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage .....	25.55	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage.....	29.95	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage.....	35.24	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage.....	41.40	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage.....	47.57	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage.....	55.50	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage.....	66.07	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure .....	220.24	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	736.85	
<i>For &gt;10 To 100, Deduct</i>	-110.53	
<i>For &gt;100 To 250, Deduct</i>	-165.79	
<i>For &gt;250, Deduct</i>	-221.06	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	884.22	
<i>For &gt;10 To 100, Deduct</i>	-132.63	
<i>For &gt;100 To 250, Deduct</i>	-198.95	
<i>For &gt;250, Deduct</i>	-265.27	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand .....	442.11	
For >10 To 100, Deduct	-66.32	
For >100 To 250, Deduct	-99.47	
For >250, Deduct	-132.63	
<b>33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum</b> (33 01 30 42-0001)		
Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes .....	217.55	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes .....	202.36	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes .....	187.17	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes .....	171.98	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes .....	156.79	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes .....	141.61	
<b>33 01 30 51 Maintenance Of Utilities</b> (33 01 30)		
<b>33 01 30 51-0001 Pipe Repair</b> (33 01 30 51)		
<b>33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band</b> (33 01 30 51-0001)		
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	118.75	
For Stainless Steel Nuts And Bolts, Add	19.70	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	169.19	
For Stainless Steel Nuts And Bolts, Add	29.69	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	195.65	
For Stainless Steel Nuts And Bolts, Add	34.96	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	223.01	
For Stainless Steel Nuts And Bolts, Add	40.22	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	128.11	
For Stainless Steel Nuts And Bolts, Add	21.39	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	179.86	
For Stainless Steel Nuts And Bolts, Add	31.68	
33 01 30 51-0009 EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	206.28	
For Stainless Steel Nuts And Bolts, Add	36.83	
33 01 30 51-0010 EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	238.53	
For Stainless Steel Nuts And Bolts, Add	43.10	
33 01 30 51-0011 EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	137.87	
For Stainless Steel Nuts And Bolts, Add	23.40	
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	187.14	
For Stainless Steel Nuts And Bolts, Add	33.12	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	216.48	
For Stainless Steel Nuts And Bolts, Add	38.83	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	252.61	
For Stainless Steel Nuts And Bolts, Add	46.10	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	155.40	
For Stainless Steel Nuts And Bolts, Add	26.61	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	205.43	
For Stainless Steel Nuts And Bolts, Add	35.82	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	249.17	
For Stainless Steel Nuts And Bolts, Add	43.61	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	300.19	
For Stainless Steel Nuts And Bolts, Add	52.60	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	392.96	
For Stainless Steel Nuts And Bolts, Add	70.65	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	489.10	
For Stainless Steel Nuts And Bolts, Add	88.70	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	596.83	
For Stainless Steel Nuts And Bolts, Add	108.81	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	182.71	
For Stainless Steel Nuts And Bolts, Add	31.40	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	242.92	
For Stainless Steel Nuts And Bolts, Add	42.60	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	287.66	
For Stainless Steel Nuts And Bolts, Add	50.23	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	336.90	
For Stainless Steel Nuts And Bolts, Add	58.37	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	467.48	
For Stainless Steel Nuts And Bolts, Add	84.58	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	568.49	
For Stainless Steel Nuts And Bolts, Add	103.14	
33 01 30 51-0028 EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	679.01	
For Stainless Steel Nuts And Bolts, Add	123.25	
33 01 30 51-0029 EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	237.22	
For Stainless Steel Nuts And Bolts, Add	37.57	
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	308.48	
For Stainless Steel Nuts And Bolts, Add	49.71	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	372.39	
For Stainless Steel Nuts And Bolts, Add	60.16	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	444.66	
For Stainless Steel Nuts And Bolts, Add	71.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	591.54	
<i>For Stainless Steel Nuts And Bolts, Add</i>	99.31	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	707.50	
<i>For Stainless Steel Nuts And Bolts, Add</i>	118.75	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	837.67	
<i>For Stainless Steel Nuts And Bolts, Add</i>	139.77	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	278.23	
<i>For Stainless Steel Nuts And Bolts, Add</i>	45.73	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	374.26	
<i>For Stainless Steel Nuts And Bolts, Add</i>	63.25	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	440.65	
<i>For Stainless Steel Nuts And Bolts, Add</i>	73.95	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	540.82	
<i>For Stainless Steel Nuts And Bolts, Add</i>	91.46	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	711.17	
<i>For Stainless Steel Nuts And Bolts, Add</i>	124.06	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	808.81	
<i>For Stainless Steel Nuts And Bolts, Add</i>	138.66	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	1,041.94	
<i>For Stainless Steel Nuts And Bolts, Add</i>	182.93	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	316.59	
<i>For Stainless Steel Nuts And Bolts, Add</i>	51.58	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	413.68	
<i>For Stainless Steel Nuts And Bolts, Add</i>	68.59	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	499.41	
<i>For Stainless Steel Nuts And Bolts, Add</i>	83.00	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	614.67	
<i>For Stainless Steel Nuts And Bolts, Add</i>	103.14	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	791.79	
<i>For Stainless Steel Nuts And Bolts, Add</i>	136.23	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	930.88	
<i>For Stainless Steel Nuts And Bolts, Add</i>	159.09	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....	1,184.06	
<i>For Stainless Steel Nuts And Bolts, Add</i>	206.28	
<b>33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small></b>		
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	709.23	
<i>For Stainless Steel Nuts And Bolts, Add</i>	198.43	
33 01 30 51-0052 EA 14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,006.29	
<i>For Stainless Steel Nuts And Bolts, Add</i>	286.46	
33 01 30 51-0053 EA 14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,355.47	
<i>For Stainless Steel Nuts And Bolts, Add</i>	388.48	
33 01 30 51-0054 EA 14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,998.72	
<i>For Stainless Steel Nuts And Bolts, Add</i>	585.52	
33 01 30 51-0055 EA 15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	744.41	
<i>For Stainless Steel Nuts And Bolts, Add</i>	208.20	
33 01 30 51-0056 EA 15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,053.37	
<i>For Stainless Steel Nuts And Bolts, Add</i>	299.74	
33 01 30 51-0057 EA 15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,415.39	
<i>For Stainless Steel Nuts And Bolts, Add</i>	405.25	
33 01 30 51-0058 EA 15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,095.18	
<i>For Stainless Steel Nuts And Bolts, Add</i>	613.46	
33 01 30 51-0059 EA 15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	763.24	
<i>For Stainless Steel Nuts And Bolts, Add</i>	212.40	
33 01 30 51-0060 EA 15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,078.14	
<i>For Stainless Steel Nuts And Bolts, Add</i>	305.34	
33 01 30 51-0061 EA 15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,452.28	
<i>For Stainless Steel Nuts And Bolts, Add</i>	414.33	
33 01 30 51-0062 EA 15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,148.06	
<i>For Stainless Steel Nuts And Bolts, Add</i>	626.73	
33 01 30 51-0063 EA 16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	782.95	
<i>For Stainless Steel Nuts And Bolts, Add</i>	216.59	
33 01 30 51-0064 EA 16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,106.34	
<i>For Stainless Steel Nuts And Bolts, Add</i>	311.63	
33 01 30 51-0065 EA 16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,487.81	
<i>For Stainless Steel Nuts And Bolts, Add</i>	422.01	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**MINOR  
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33 01 30 51-0066	EA	16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,200.77	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	639.31	
33 01 30 51-0067	EA	17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	800.64	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	220.09	
33 01 30 51-0068	EA	17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,130.40	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	316.51	
33 01 30 51-0069	EA	17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,523.33	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	429.70	
33 01 30 51-0070	EA	17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,248.24	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	649.79	
33 01 30 51-0071	EA	17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	817.38	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	223.59	
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,155.15	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	322.10	
33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,554.97	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	436.69	
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,278.40	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	655.03	
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	836.65	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	227.94	
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,184.47	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	329.09	
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	1,588.64	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	444.37	
33 01 30 51-0078	EA	18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) .....	2,346.74	
		<i>For Stainless Steel Nuts And Bolts, Add</i> .....	673.55	
<b>33 01 30 51-0079</b>		<b>Repair Couplings and Fittings</b> (33 01 30 51-0001)		
<b>33 01 30 51-0080</b>		<b>Couplings And Fittings For Copper Pipe, Compression</b> (33 01 30 51-0079)		
		Note: Includes gaskets. Dresser style 88.		
<b>33 01 30 51-0081</b>		<b>Copper Compression Repair Couplings</b> (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling .....	76.62	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling .....	89.01	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling .....	104.68	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling .....	117.67	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling .....	183.45	
<b>33 01 30 51-0087</b>		<b>Copper Compression Repair Fitting, 90 Degree Elbows</b> (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow .....	92.77	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow .....	106.99	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow .....	220.14	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow .....	85.38	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow .....	76.92	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow .....	90.06	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow .....	111.84	
<b>33 01 30 51-0095</b>		<b>Copper Compression Repair Fitting, Tees</b> (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee .....	171.31	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee .....	130.65	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee .....	155.34	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee .....	126.73	
<b>33 01 30 51-0100</b>		<b>Copper Compression Repair Fitting, Male Adapters</b> (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter .....	80.48	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter .....	63.99	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter .....	72.53	
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter .....	87.70	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter .....	105.85	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter .....	115.18	
<b>33 01 30 51-0107</b>		<b>Copper Compression Repair Fitting, Female Adapters</b> (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter .....	94.65	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter .....	99.71	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0110	<b>Couplings And Fittings For Steel Pipe, Cast Body, Compression</b> (33 01 30 51-0079)	Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111	<b>Couplings For Steel Pipe, Cast Body (Compression)</b> (33 01 30 51-0110)	Note: Includes gaskets.		
33 01 30 51-0112	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....		50.04	
33 01 30 51-0113	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....		51.36	
33 01 30 51-0114	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring.....		58.02	
33 01 30 51-0115	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....		64.74	
33 01 30 51-0116	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....		80.11	
33 01 30 51-0117	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring.....		97.33	
33 01 30 51-0118	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		51.33	
33 01 30 51-0119	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		52.79	
33 01 30 51-0120	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		58.24	
33 01 30 51-0121	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		65.40	
33 01 30 51-0122	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		82.27	
33 01 30 51-0123	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		98.29	
33 01 30 51-0124	EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		95.64	
33 01 30 51-0125	EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		111.88	
33 01 30 51-0126	EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		116.91	
33 01 30 51-0127	EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		132.17	
33 01 30 51-0128	EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		160.71	
33 01 30 51-0129	<b>Reducing Couplings For Steel Pipe (Compression)</b> (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0130	EA 3/4" x 1/2" Reducing Coupling (Compression).....		55.67	
33 01 30 51-0131	EA 1" x 3/4" Reducing Coupling (Compression).....		59.43	
33 01 30 51-0132	EA 1-1/4" x 3/4" Reducing Coupling (Compression).....		67.10	
33 01 30 51-0133	EA 1-1/4" x 1" Reducing Coupling (Compression).....		69.48	
33 01 30 51-0134	EA 1-1/2" x 3/4" Reducing Coupling (Compression).....		129.79	
33 01 30 51-0135	EA 1-1/2" x 1" Reducing Coupling (Compression).....		83.80	
33 01 30 51-0136	EA 1-1/2" x 1-1/4" Reducing Coupling (Compression).....		84.13	
33 01 30 51-0137	EA 2" x 3/4" Reducing Coupling (Compression).....		155.04	
33 01 30 51-0138	EA 2" x 1" Reducing Coupling (Compression).....		141.83	
33 01 30 51-0139	EA 2" x 1-1/4" Reducing Coupling (Compression).....		110.40	
33 01 30 51-0140	EA 2" x 1-1/2" Reducing Coupling (Compression).....		110.05	
33 01 30 51-0141	<b>Steel Compression Repair Fittings, Elbows</b> (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0142	EA 1" 45 Degree Elbow (Compression).....		89.75	
33 01 30 51-0143	EA 1-1/4" 45 Degree Elbow (Compression).....		94.05	
33 01 30 51-0144	EA 1-1/2" 45 Degree Elbow (Compression).....		121.24	
33 01 30 51-0145	EA 2" 45 Degree Elbow (Compression).....		152.58	
33 01 30 51-0146	EA 3/4" 90 Degree Elbow (Compression).....		61.15	
33 01 30 51-0147	EA 1" 90 Degree Elbow (Compression).....		64.01	
33 01 30 51-0148	EA 1-1/4" 90 Degree Elbow (Compression).....		74.82	
33 01 30 51-0149	EA 1-1/2" 90 Degree Elbow (Compression).....		105.65	
33 01 30 51-0150	EA 2" 90 Degree Elbow (Compression).....		116.53	
33 01 30 51-0151	EA 3/4" Plain End 90 Degree Street Elbow (Compression).....		61.33	
33 01 30 51-0152	EA 1" Plain End 90 Degree Street Elbow (Compression).....		55.45	
33 01 30 51-0153	EA 1-1/4" Plain End 90 Degree Street Elbow (Compression).....		62.70	
33 01 30 51-0154	EA 1-1/2" Plain End 90 Degree Street Elbow (Compression).....		79.22	
33 01 30 51-0155	EA 2" Plain End 90 Degree Street Elbow (Compression).....		101.58	
33 01 30 51-0156	EA 3/4" Threaded End 90 Degree Street Elbow (Compression).....		63.20	
33 01 30 51-0157	EA 1" Threaded End 90 Degree Street Elbow (Compression).....		58.93	
33 01 30 51-0158	EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression).....		75.65	
33 01 30 51-0159	EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression).....		91.58	
33 01 30 51-0160	EA 2" Threaded End 90 Degree Street Elbow (Compression).....		128.02	
33 01 30 51-0161	<b>Steel Compression Repair Fittings, Tees</b> (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0162	EA 3/4" Street Tee (Compression).....		69.26	
33 01 30 51-0163	EA 1" Street Tee (Compression).....		81.44	
33 01 30 51-0164	EA 1-1/4" Street Tee (Compression).....		83.46	
33 01 30 51-0165	EA 1-1/2" Street Tee (Compression).....		97.32	
33 01 30 51-0166	EA 2" Street Tee (Compression).....		143.35	
33 01 30 51-0167	EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....		82.79	
33 01 30 51-0168	EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....		86.16	
33 01 30 51-0169	EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....		107.89	
33 01 30 51-0170	EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....		123.15	
33 01 30 51-0171	EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....		123.82	
33 01 30 51-0172	EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....		106.46	
33 01 30 51-0173	EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression).....		140.05	
33 01 30 51-0174	EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression).....		156.99	
33 01 30 51-0175	EA 3/4" Welding Street Tee (Compression).....		120.10	
33 01 30 51-0176	EA 1" Welding Street Tee (Compression).....		121.68	
33 01 30 51-0177	EA 1-1/4" Welding Street Tee (Compression).....		131.15	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
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33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression).....	158.32
33 01 30 51-0179	EA	2" Welding Street Tee (Compression).....	211.39
33 01 30 51-0180	EA	3/4" Regular Tee (Compression).....	90.53
33 01 30 51-0181	EA	1" Regular Tee (Compression).....	153.95
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression).....	163.34
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression).....	177.20
33 01 30 51-0184	EA	2" Regular Tee (Compression).....	197.66
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	194.95

**33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)**

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	61.00
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	68.24
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	88.04
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	100.24
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	113.69
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	87.60

**33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)**

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression).....	32.58
33 01 30 51-0195	EA	1" Line Caps (Compression).....	37.94
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	43.38
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	51.30
33 01 30 51-0198	EA	2" Line Caps (Compression).....	63.20

**33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna S gasket. Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	40.73
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	51.85
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket.....	61.62
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	76.20
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	94.03
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	111.29
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	107.00
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	145.20
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	147.80
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	150.40
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	174.21
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	178.62
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	184.15
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	219.05
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	220.79
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	227.13
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	240.45
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	245.16
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	251.18
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	281.35
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	288.32
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	294.04
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	334.04
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	366.93
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	379.08
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	448.80
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	510.34
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	592.47
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	648.78
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	699.88
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	838.08
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	885.29

**33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	41.48
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	51.75
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	61.57
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	75.86
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	103.95
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	102.58
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	103.27
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	150.40
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	153.00
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	155.60
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	181.29
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	176.71
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	179.12
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	228.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected .....	229.45	
33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	288.42	
33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected .....	243.24	
33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected .....	250.01	
33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	252.62	
33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected .....	296.48	
33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected .....	299.05	
33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	303.19	
33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected .....	340.28	
33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	373.43	
33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected .....	385.58	
33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	455.16	
33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	516.84	
33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	602.22	
33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	661.78	
33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	712.88	
33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	851.08	
33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected .....	898.29	

**33 01 30 51-0265**

**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected .....	46.10	
33 01 30 51-0267 EA 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	56.45	
33 01 30 51-0268 EA 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	67.09	
33 01 30 51-0269 EA 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	83.03	
33 01 30 51-0270 EA 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	103.95	
33 01 30 51-0271 EA 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	115.56	
33 01 30 51-0272 EA 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	119.42	
33 01 30 51-0273 EA 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	150.40	
33 01 30 51-0274 EA 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	153.00	
33 01 30 51-0275 EA 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	155.60	
33 01 30 51-0276 EA 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	181.29	
33 01 30 51-0277 EA 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	190.56	
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	194.09	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	228.17	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	229.45	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	244.33	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	243.24	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	250.01	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	252.62	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected .....	296.48	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	299.05	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	303.19	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	340.28	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	373.43	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected .....	385.58	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	455.16	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	516.84	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	592.47	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	661.78	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	712.88	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	851.08	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected .....	898.29	

**33 01 30 51-0298**

**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	72.76	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	82.00	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	92.12	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket .....	131.44	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	138.56	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	142.18	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	175.46	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	174.64	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	203.56	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	207.09	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	269.81	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	274.49	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	294.11	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	297.22	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket .....	318.78	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	365.30	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	384.27	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	405.01	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	404.95	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket .....	496.30	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	510.59	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	582.13	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket .....	702.85	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	705.98	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	779.83	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	842.63	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	911.29	
<b>33 01 30 51-0326 Temporary Pipe Plugging (33 01 30 51-0001)</b>		
<b>33 01 30 51-0327 Gravity Bladder Pipe Plugging (33 01 30 51-0326)</b>		
Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0328 EA 3/4" Bladder Type Pipe Plug.....	65.39	
33 01 30 51-0329 EA 1" Bladder Type Pipe Plug.....	70.05	
33 01 30 51-0330 EA 1-1/4" Bladder Type Pipe Plug.....	76.09	
33 01 30 51-0331 EA 1-1/2" Bladder Type Pipe Plug.....	81.58	
33 01 30 51-0332 EA 2" Bladder Type Pipe Plug.....	86.81	
33 01 30 51-0333 EA 2-1/2" Bladder Type Pipe Plug.....	92.82	
33 01 30 51-0334 EA 3" Bladder Type Pipe Plug.....	100.91	
33 01 30 51-0335 EA 4" Bladder Type Pipe Plug.....	111.19	
33 01 30 51-0336 EA 5" Bladder Type Pipe Plug.....	120.37	
33 01 30 51-0337 EA 6" Bladder Type Pipe Plug.....	134.08	
33 01 30 51-0338 EA 8" Bladder Type Pipe Plug.....	149.00	
33 01 30 51-0339 EA 10" Bladder Type Pipe Plug.....	172.58	
33 01 30 51-0340 EA 12" Bladder Type Pipe Plug.....	205.58	
33 01 30 51-0341 EA 14" Bladder Type Pipe Plug.....	243.99	
33 01 30 51-0342 EA 16" Bladder Type Pipe Plug.....	293.64	
33 01 30 51-0343 EA 18" Bladder Type Pipe Plug.....	353.32	
33 01 30 51-0344 EA 20" Bladder Type Pipe Plug.....	423.36	
33 01 30 51-0345 EA 24" Bladder Type Pipe Plug.....	489.94	
<b>33 01 30 51-0346 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0326)</b>		
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0347 EA 2" Hydra Stop, Line Stopper.....	1,796.74	
33 01 30 51-0348 EA 2-1/2" Hydra Stop, Line Stopper.....	2,253.61	
33 01 30 51-0349 EA 3" Hydra Stop, Line Stopper.....	2,756.55	
33 01 30 51-0350 EA 4" Hydra Stop, Line Stopper.....	3,363.11	
33 01 30 51-0351 EA 5" Hydra Stop, Line Stopper.....	3,839.11	
33 01 30 51-0352 EA 6" Hydra Stop, Line Stopper.....	4,637.51	
33 01 30 51-0353 EA 8" Hydra Stop, Line Stopper.....	5,113.52	
33 01 30 51-0354 EA 10" Hydra Stop, Line Stopper.....	5,911.90	
33 01 30 51-0355 EA 12" Hydra Stop, Line Stopper.....	6,710.32	
33 01 30 51-0356 EA 14" Hydra Stop, Line Stopper.....	7,547.11	
33 01 30 51-0357 EA 16" Hydra Stop, Line Stopper.....	8,614.34	
33 01 30 51-0358 EA 18" Hydra Stop, Line Stopper.....	9,796.73	
33 01 30 51-0359 EA 20" Hydra Stop, Line Stopper.....	11,516.63	
<b>33 01 30 51-0360 Aluminum Expansion Plugs (33 01 30 51-0326)</b>		
Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0361 EA 3" Pipe Aluminum Expansion Plug.....	49.35	
33 01 30 51-0362 EA 4" Pipe Aluminum Expansion Plug.....	69.47	
33 01 30 51-0363 EA 5" Pipe Aluminum Expansion Plug.....	78.13	
33 01 30 51-0364 EA 6" Pipe Aluminum Expansion Plug.....	116.59	
33 01 30 51-0365 EA 8" Pipe Aluminum Expansion Plug.....	120.03	
33 01 30 51-0366 EA 10" Pipe Aluminum Expansion Plug.....	149.14	
33 01 30 51-0367 EA 12" Pipe Aluminum Expansion Plug.....	199.89	
33 01 30 51-0368 EA 14" Pipe Aluminum Expansion Plug.....	319.27	
33 01 30 51-0369 EA 15" Pipe Aluminum Expansion Plug.....	345.45	
<b>33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)</b>		
33 01 30 51-0371 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	131.15	
33 01 30 51-0372 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	131.33	
33 01 30 51-0373 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	131.77	
33 01 30 51-0374 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	132.21	
33 01 30 51-0375 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	132.43	
33 01 30 51-0376 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	133.09	
33 01 30 51-0377 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	133.75	
33 01 30 51-0378 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	134.63	
33 01 30 51-0379 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	241.25	
33 01 30 51-0380 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	244.11	
33 01 30 51-0381 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	246.10	
33 01 30 51-0382 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	267.05	
33 01 30 51-0383 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	269.70	
33 01 30 51-0384 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	271.47	
33 01 30 51-0385 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	274.11	
33 01 30 51-0386 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	276.76	
33 01 30 51-0387 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	280.29	
33 01 30 51-0388 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	286.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 30 51-0389 Polyseal Pipe Coupler</b> <small>(33 01 30 51-0001)</small>		
33 01 30 51-0390 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	261.82	
33 01 30 51-0391 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	296.04	
<b>33 01 30 63 Sewer and Pipe Joint Sealing</b> <small>(33 01 30)</small>		
<b>33 01 30 63-0001 Joint Air Test</b> <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	81.42	
33 01 30 63-0003 EA 10" To 15", Joint Air Test.....	94.99	
33 01 30 63-0004 EA >15" To 21", Joint Air Test.....	108.56	
33 01 30 63-0005 EA >21" To 24", Joint Air Test.....	135.70	
33 01 30 63-0006 EA >24" To 27", Joint Air Test.....	162.85	
33 01 30 63-0007 EA >27" To 36", Joint Air Test.....	189.98	
<b>33 01 30 63-0008 Joint Seal And Joint Air Retest</b> <small>(33 01 30 63)</small>		
Note: Includes grout.		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest.....	237.83	
Note: Includes up to 1 gallon of grout.		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest.....	264.96	
Note: Includes 1 gallon of grout.		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest.....	312.82	
Note: Includes 2 gallons of grout.		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest.....	350.31	
Note: Includes 2.5 gallons of grout.		
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest.....	387.79	
Note: Includes 3 gallons of grout.		
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest.....	457.60	
Note: Includes 3.75 gallons of grout.		
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest.....	527.41	
Note: Includes 4.5 gallons of grout.		
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest.....	597.23	
Note: Includes 5.25 gallons of grout.		
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest.....	694.18	
Note: Includes 6 gallons of grout.		
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest.....	791.13	
Note: Includes 6.75 gallons of grout.		
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest.....	915.23	
Note: Includes 7.5 gallons of grout.		
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest.....	1,054.84	
Note: Includes 9 gallons of grout.		
33 01 30 63-0021 GAL Extra Grout Per Joint.....	129.26	
Note: For extra grout per joint required over listed amount.		
<b>33 01 30 70 Rehabilitation Of Sewer Utilities</b> <small>(33 01 30)</small>		
<b>33 01 30 70-0001 Cementitious Pipe Coatings By Hand</b> <small>(33 01 30 70)</small>		
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.		
33 01 30 70-0002 SF Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	6.97	
33 01 30 70-0003 SF >1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	10.18	
<b>33 01 30 71 Relining Sewer Utilities Pipelines</b> <small>(33 01 30)</small>		
<b>33 01 30 71-0001 Relining Underground Pipelines</b> <small>(33 01 30 71)</small>		
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 71-0002 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
Note: Two part structural polyurethane.		
<b>33 01 30 71-0003 Mobilization And Setup For Spray Applied Structural Polyurethane Lining</b> <small>(33 01 30 71-0002)</small>		
33 01 30 71-0004 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,527.89	
<b>33 01 30 71-0005 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0006 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	39.04	
For Up To 75, Add		
	8.63	
For >75 To 150, Add		
	3.90	
For >150 To 1,000, Deduct		
	-1.11	
For >1,000 To 2,000, Deduct		
	-2.14	
For >2,000 To 5,000, Deduct		
	-3.33	
For >5,000, Deduct		
	-4.73	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0007 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	45.54	
For Up To 75, Add	10.07	
For >75 To 150, Add	4.55	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.49	
For >2,000 To 5,000, Deduct	-3.89	
For >5,000, Deduct	-5.52	
33 01 30 71-0008 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	52.05	
For Up To 75, Add	11.51	
For >75 To 150, Add	5.21	
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 2,000, Deduct	-2.85	
For >2,000 To 5,000, Deduct	-4.44	
For >5,000, Deduct	-6.30	
33 01 30 71-0009 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	58.57	
For Up To 75, Add	12.95	
For >75 To 150, Add	5.86	
For >500 To 1,000, Deduct	-1.67	
For >1,000 To 2,000, Deduct	-3.21	
For >2,000 To 5,000, Deduct	-5.00	
For >5,000, Deduct	-7.09	
33 01 30 71-0010 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	65.08	
For Up To 75, Add	14.39	
For >75 To 150, Add	6.51	
For >500 To 1,000, Deduct	-1.85	
For >1,000 To 2,000, Deduct	-3.57	
For >2,000 To 5,000, Deduct	-5.55	
For >5,000, Deduct	-7.88	
33 01 30 71-0011 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	71.58	
For Up To 75, Add	15.83	
For >75 To 150, Add	7.16	
For >500 To 1,000, Deduct	-2.04	
For >1,000 To 2,000, Deduct	-3.92	
For >2,000 To 5,000, Deduct	-6.11	
For >5,000, Deduct	-8.67	
33 01 30 71-0012 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	78.09	
For Up To 75, Add	17.27	
For >75 To 150, Add	7.81	
For >500 To 1,000, Deduct	-2.22	
For >1,000 To 2,000, Deduct	-4.28	
For >2,000 To 5,000, Deduct	-6.66	
For >5,000, Deduct	-9.46	
33 01 30 71-0013 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	84.59	
For Up To 75, Add	18.70	
For >75 To 150, Add	8.46	
For >500 To 1,000, Deduct	-2.41	
For >1,000 To 2,000, Deduct	-4.63	
For >2,000 To 5,000, Deduct	-7.22	
For >5,000, Deduct	-10.24	
33 01 30 71-0014 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	91.10	
For Up To 75, Add	20.14	
For >75 To 150, Add	9.11	
For >500 To 1,000, Deduct	-2.59	
For >1,000 To 2,000, Deduct	-4.99	
For >2,000 To 5,000, Deduct	-7.77	
For >5,000, Deduct	-11.03	
33 01 30 71-0015 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	97.60	
For Up To 75, Add	21.58	
For >75 To 150, Add	9.76	
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 2,000, Deduct	-5.35	
For >2,000 To 5,000, Deduct	-8.33	
For >5,000, Deduct	-11.82	
33 01 30 71-0016 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	104.11	
For Up To 75, Add	23.02	
For >75 To 150, Add	10.41	
For >500 To 1,000, Deduct	-2.96	
For >1,000 To 2,000, Deduct	-5.70	
For >2,000 To 5,000, Deduct	-8.88	
For >5,000, Deduct	-12.61	
33 01 30 71-0017 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	110.62	
For Up To 75, Add	24.46	
For >75 To 150, Add	11.06	
For >500 To 1,000, Deduct	-3.15	
For >1,000 To 2,000, Deduct	-6.06	
For >2,000 To 5,000, Deduct	-9.44	
For >5,000, Deduct	-13.40	
33 01 30 71-0018 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	117.12	
For Up To 75, Add	25.90	
For >75 To 150, Add	11.71	
For >500 To 1,000, Deduct	-3.33	
For >1,000 To 2,000, Deduct	-6.42	
For >2,000 To 5,000, Deduct	-9.99	
For >5,000, Deduct	-14.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0019 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	123.63	
<i>For Up To 75, Add</i>	27.34	
<i>For &gt;75 To 150, Add</i>	12.36	
<i>For &gt;500 To 1,000, Deduct</i>	-3.52	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.77	
<i>For &gt;2,000 To 5,000, Deduct</i>	-10.55	
<i>For &gt;5,000, Deduct</i>	-14.97	
33 01 30 71-0020 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	130.12	
<i>For Up To 75, Add</i>	28.77	
<i>For &gt;75 To 150, Add</i>	13.01	
<i>For &gt;500 To 1,000, Deduct</i>	-3.70	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.13	
<i>For &gt;2,000 To 5,000, Deduct</i>	-11.10	
<i>For &gt;5,000, Deduct</i>	-15.76	
33 01 30 71-0021 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane.....	4.14	
<b>33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0023 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	51.21	
<i>For Up To 75, Add</i>	11.11	
<i>For &gt;75 To 150, Add</i>	5.12	
<i>For &gt;500 To 1,000, Deduct</i>	-1.37	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.66	
<i>For &gt;2,000 To 5,000, Deduct</i>	-4.11	
<i>For &gt;5,000, Deduct</i>	-5.99	
33 01 30 71-0024 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	59.73	
<i>For Up To 75, Add</i>	12.96	
<i>For &gt;75 To 150, Add</i>	5.97	
<i>For &gt;500 To 1,000, Deduct</i>	-1.60	
<i>For &gt;1,000 To 2,000, Deduct</i>	-3.10	
<i>For &gt;2,000 To 5,000, Deduct</i>	-4.80	
<i>For &gt;5,000, Deduct</i>	-6.98	
33 01 30 71-0025 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	68.28	
<i>For Up To 75, Add</i>	14.81	
<i>For &gt;75 To 150, Add</i>	6.83	
<i>For &gt;500 To 1,000, Deduct</i>	-1.83	
<i>For &gt;1,000 To 2,000, Deduct</i>	-3.54	
<i>For &gt;2,000 To 5,000, Deduct</i>	-5.48	
<i>For &gt;5,000, Deduct</i>	-7.98	
33 01 30 71-0026 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	76.81	
<i>For Up To 75, Add</i>	16.66	
<i>For &gt;75 To 150, Add</i>	7.68	
<i>For &gt;500 To 1,000, Deduct</i>	-2.06	
<i>For &gt;1,000 To 2,000, Deduct</i>	-3.98	
<i>For &gt;2,000 To 5,000, Deduct</i>	-6.17	
<i>For &gt;5,000, Deduct</i>	-8.98	
33 01 30 71-0027 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	85.34	
<i>For Up To 75, Add</i>	18.51	
<i>For &gt;75 To 150, Add</i>	8.53	
<i>For &gt;500 To 1,000, Deduct</i>	-2.29	
<i>For &gt;1,000 To 2,000, Deduct</i>	-4.43	
<i>For &gt;2,000 To 5,000, Deduct</i>	-6.86	
<i>For &gt;5,000, Deduct</i>	-9.98	
33 01 30 71-0028 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	93.87	
<i>For Up To 75, Add</i>	20.36	
<i>For &gt;75 To 150, Add</i>	9.39	
<i>For &gt;500 To 1,000, Deduct</i>	-2.51	
<i>For &gt;1,000 To 2,000, Deduct</i>	-4.87	
<i>For &gt;2,000 To 5,000, Deduct</i>	-7.54	
<i>For &gt;5,000, Deduct</i>	-10.98	
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	102.42	
<i>For Up To 75, Add</i>	22.22	
<i>For &gt;75 To 150, Add</i>	10.24	
<i>For &gt;500 To 1,000, Deduct</i>	-2.74	
<i>For &gt;1,000 To 2,000, Deduct</i>	-5.31	
<i>For &gt;2,000 To 5,000, Deduct</i>	-8.23	
<i>For &gt;5,000, Deduct</i>	-11.98	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	110.94	
<i>For Up To 75, Add</i>	24.07	
<i>For &gt;75 To 150, Add</i>	11.09	
<i>For &gt;500 To 1,000, Deduct</i>	-2.97	
<i>For &gt;1,000 To 2,000, Deduct</i>	-5.75	
<i>For &gt;2,000 To 5,000, Deduct</i>	-8.91	
<i>For &gt;5,000, Deduct</i>	-12.97	
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	119.48	
<i>For Up To 75, Add</i>	25.92	
<i>For &gt;75 To 150, Add</i>	11.95	
<i>For &gt;500 To 1,000, Deduct</i>	-3.20	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.20	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.60	
<i>For &gt;5,000, Deduct</i>	-13.97	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	128.02	
For Up To 75, Add	27.77	
For >75 To 150, Add	12.80	
For >500 To 1,000, Deduct	-3.43	
For >1,000 To 2,000, Deduct	-6.64	
For >2,000 To 5,000, Deduct	-10.28	
For >5,000, Deduct	-14.97	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	136.55	
For Up To 75, Add	29.62	
For >75 To 150, Add	13.66	
For >500 To 1,000, Deduct	-3.66	
For >1,000 To 2,000, Deduct	-7.08	
For >2,000 To 5,000, Deduct	-10.97	
For >5,000, Deduct	-15.97	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	145.08	
For Up To 75, Add	31.47	
For >75 To 150, Add	14.51	
For >500 To 1,000, Deduct	-3.88	
For >1,000 To 2,000, Deduct	-7.52	
For >2,000 To 5,000, Deduct	-11.65	
For >5,000, Deduct	-16.97	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	153.62	
For Up To 75, Add	33.33	
For >75 To 150, Add	15.36	
For >500 To 1,000, Deduct	-4.11	
For >1,000 To 2,000, Deduct	-7.97	
For >2,000 To 5,000, Deduct	-12.34	
For >5,000, Deduct	-17.96	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	162.15	
For Up To 75, Add	35.18	
For >75 To 150, Add	16.22	
For >500 To 1,000, Deduct	-4.34	
For >1,000 To 2,000, Deduct	-8.41	
For >2,000 To 5,000, Deduct	-13.02	
For >5,000, Deduct	-18.96	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	170.69	
For Up To 75, Add	37.03	
For >75 To 150, Add	17.07	
For >500 To 1,000, Deduct	-4.57	
For >1,000 To 2,000, Deduct	-8.85	
For >2,000 To 5,000, Deduct	-13.71	
For >5,000, Deduct	-19.96	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane .....	5.43	
<b>33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	63.37	
For Up To 75, Add	13.59	
For >75 To 150, Add	6.34	
For >500 To 1,000, Deduct	-1.63	
For >1,000 To 2,000, Deduct	-3.17	
For >2,000 To 5,000, Deduct	-4.90	
For >5,000, Deduct	-7.25	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	73.95	
For Up To 75, Add	15.86	
For >75 To 150, Add	7.40	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.70	
For >2,000 To 5,000, Deduct	-5.72	
For >5,000, Deduct	-8.46	
33 01 30 71-0042 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	84.51	
For Up To 75, Add	18.12	
For >75 To 150, Add	8.45	
For >500 To 1,000, Deduct	-2.18	
For >1,000 To 2,000, Deduct	-4.23	
For >2,000 To 5,000, Deduct	-6.53	
For >5,000, Deduct	-9.67	
33 01 30 71-0043 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	95.07	
For Up To 75, Add	20.38	
For >75 To 150, Add	9.51	
For >500 To 1,000, Deduct	-2.45	
For >1,000 To 2,000, Deduct	-4.76	
For >2,000 To 5,000, Deduct	-7.35	
For >5,000, Deduct	-10.88	
33 01 30 71-0044 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	105.62	
For Up To 75, Add	22.65	
For >75 To 150, Add	10.56	
For >500 To 1,000, Deduct	-2.72	
For >1,000 To 2,000, Deduct	-5.29	
For >2,000 To 5,000, Deduct	-8.16	
For >5,000, Deduct	-12.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0045 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	116.19	
<i>For Up To 75, Add</i>	24.91	
<i>For &gt;75 To 150, Add</i>	11.62	
<i>For &gt;500 To 1,000, Deduct</i>	-2.99	
<i>For &gt;1,000 To 2,000, Deduct</i>	-5.82	
<i>For &gt;2,000 To 5,000, Deduct</i>	-8.98	
<i>For &gt;5,000, Deduct</i>	-13.29	
33 01 30 71-0046 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	126.75	
<i>For Up To 75, Add</i>	27.18	
<i>For &gt;75 To 150, Add</i>	12.68	
<i>For &gt;500 To 1,000, Deduct</i>	-3.27	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.35	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.80	
<i>For &gt;5,000, Deduct</i>	-14.50	
33 01 30 71-0047 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	137.31	
<i>For Up To 75, Add</i>	29.44	
<i>For &gt;75 To 150, Add</i>	13.73	
<i>For &gt;500 To 1,000, Deduct</i>	-3.54	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.88	
<i>For &gt;2,000 To 5,000, Deduct</i>	-10.61	
<i>For &gt;5,000, Deduct</i>	-15.71	
33 01 30 71-0048 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	147.89	
<i>For Up To 75, Add</i>	31.71	
<i>For &gt;75 To 150, Add</i>	14.79	
<i>For &gt;500 To 1,000, Deduct</i>	-3.81	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.41	
<i>For &gt;2,000 To 5,000, Deduct</i>	-11.43	
<i>For &gt;5,000, Deduct</i>	-16.92	
33 01 30 71-0049 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	158.45	
<i>For Up To 75, Add</i>	33.97	
<i>For &gt;75 To 150, Add</i>	15.85	
<i>For &gt;500 To 1,000, Deduct</i>	-4.08	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.94	
<i>For &gt;2,000 To 5,000, Deduct</i>	-12.25	
<i>For &gt;5,000, Deduct</i>	-18.13	
33 01 30 71-0050 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	169.01	
<i>For Up To 75, Add</i>	36.24	
<i>For &gt;75 To 150, Add</i>	16.90	
<i>For &gt;500 To 1,000, Deduct</i>	-4.35	
<i>For &gt;1,000 To 2,000, Deduct</i>	-8.46	
<i>For &gt;2,000 To 5,000, Deduct</i>	-13.06	
<i>For &gt;5,000, Deduct</i>	-19.34	
33 01 30 71-0051 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	179.57	
<i>For Up To 75, Add</i>	38.50	
<i>For &gt;75 To 150, Add</i>	17.96	
<i>For &gt;500 To 1,000, Deduct</i>	-4.63	
<i>For &gt;1,000 To 2,000, Deduct</i>	-8.99	
<i>For &gt;2,000 To 5,000, Deduct</i>	-13.88	
<i>For &gt;5,000, Deduct</i>	-20.54	
33 01 30 71-0052 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	190.13	
<i>For Up To 75, Add</i>	40.77	
<i>For &gt;75 To 150, Add</i>	19.01	
<i>For &gt;500 To 1,000, Deduct</i>	-4.90	
<i>For &gt;1,000 To 2,000, Deduct</i>	-9.52	
<i>For &gt;2,000 To 5,000, Deduct</i>	-14.69	
<i>For &gt;5,000, Deduct</i>	-21.75	
33 01 30 71-0053 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	200.70	
<i>For Up To 75, Add</i>	43.03	
<i>For &gt;75 To 150, Add</i>	20.07	
<i>For &gt;500 To 1,000, Deduct</i>	-5.17	
<i>For &gt;1,000 To 2,000, Deduct</i>	-10.05	
<i>For &gt;2,000 To 5,000, Deduct</i>	-15.51	
<i>For &gt;5,000, Deduct</i>	-22.96	
33 01 30 71-0054 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	211.26	
<i>For Up To 75, Add</i>	45.30	
<i>For &gt;75 To 150, Add</i>	21.13	
<i>For &gt;500 To 1,000, Deduct</i>	-5.44	
<i>For &gt;1,000 To 2,000, Deduct</i>	-10.58	
<i>For &gt;2,000 To 5,000, Deduct</i>	-16.33	
<i>For &gt;5,000, Deduct</i>	-24.17	
33 01 30 71-0055 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane.....	6.73	
<b>33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0057 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	75.62	
<i>For Up To 75, Add</i>	16.09	
<i>For &gt;75 To 150, Add</i>	7.56	
<i>For &gt;500 To 1,000, Deduct</i>	-1.90	
<i>For &gt;1,000 To 2,000, Deduct</i>	-3.70	
<i>For &gt;2,000 To 5,000, Deduct</i>	-5.69	
<i>For &gt;5,000, Deduct</i>	-8.52	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0058 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	88.23	
For Up To 75, Add	18.77	
For >75 To 150, Add	8.82	
For >500 To 1,000, Deduct	-2.21	
For >1,000 To 2,000, Deduct	-4.31	
For >2,000 To 5,000, Deduct	-6.64	
For >5,000, Deduct	-9.94	
33 01 30 71-0059 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	100.82	
For Up To 75, Add	21.45	
For >75 To 150, Add	10.08	
For >500 To 1,000, Deduct	-2.53	
For >1,000 To 2,000, Deduct	-4.93	
For >2,000 To 5,000, Deduct	-7.59	
For >5,000, Deduct	-11.36	
33 01 30 71-0060 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	113.42	
For Up To 75, Add	24.13	
For >75 To 150, Add	11.34	
For >500 To 1,000, Deduct	-2.85	
For >1,000 To 2,000, Deduct	-5.55	
For >2,000 To 5,000, Deduct	-8.54	
For >5,000, Deduct	-12.78	
33 01 30 71-0061 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	126.03	
For Up To 75, Add	26.81	
For >75 To 150, Add	12.60	
For >500 To 1,000, Deduct	-3.16	
For >1,000 To 2,000, Deduct	-6.16	
For >2,000 To 5,000, Deduct	-9.48	
For >5,000, Deduct	-14.21	
33 01 30 71-0062 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	138.63	
For Up To 75, Add	29.49	
For >75 To 150, Add	13.86	
For >500 To 1,000, Deduct	-3.48	
For >1,000 To 2,000, Deduct	-6.78	
For >2,000 To 5,000, Deduct	-10.43	
For >5,000, Deduct	-15.63	
33 01 30 71-0063 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	151.24	
For Up To 75, Add	32.17	
For >75 To 150, Add	15.12	
For >500 To 1,000, Deduct	-3.79	
For >1,000 To 2,000, Deduct	-7.40	
For >2,000 To 5,000, Deduct	-11.38	
For >5,000, Deduct	-17.05	
33 01 30 71-0064 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	163.84	
For Up To 75, Add	34.85	
For >75 To 150, Add	16.38	
For >500 To 1,000, Deduct	-4.11	
For >1,000 To 2,000, Deduct	-8.01	
For >2,000 To 5,000, Deduct	-12.33	
For >5,000, Deduct	-18.47	
33 01 30 71-0065 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	176.45	
For Up To 75, Add	37.53	
For >75 To 150, Add	17.65	
For >500 To 1,000, Deduct	-4.43	
For >1,000 To 2,000, Deduct	-8.63	
For >2,000 To 5,000, Deduct	-13.28	
For >5,000, Deduct	-19.89	
33 01 30 71-0066 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	189.05	
For Up To 75, Add	40.21	
For >75 To 150, Add	18.91	
For >500 To 1,000, Deduct	-4.74	
For >1,000 To 2,000, Deduct	-9.24	
For >2,000 To 5,000, Deduct	-14.23	
For >5,000, Deduct	-21.31	
33 01 30 71-0067 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	201.65	
For Up To 75, Add	42.89	
For >75 To 150, Add	20.17	
For >500 To 1,000, Deduct	-5.06	
For >1,000 To 2,000, Deduct	-9.86	
For >2,000 To 5,000, Deduct	-15.17	
For >5,000, Deduct	-22.73	
33 01 30 71-0068 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	214.25	
For Up To 75, Add	45.57	
For >75 To 150, Add	21.43	
For >500 To 1,000, Deduct	-5.37	
For >1,000 To 2,000, Deduct	-10.48	
For >2,000 To 5,000, Deduct	-16.12	
For >5,000, Deduct	-24.15	
33 01 30 71-0069 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	226.86	
For Up To 75, Add	48.26	
For >75 To 150, Add	22.69	
For >500 To 1,000, Deduct	-5.69	
For >1,000 To 2,000, Deduct	-11.09	
For >2,000 To 5,000, Deduct	-17.07	
For >5,000, Deduct	-25.57	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0070 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	239.46	
For Up To 75, Add	50.94	
For >75 To 150, Add	23.95	
For >500 To 1,000, Deduct	-6.01	
For >1,000 To 2,000, Deduct	-11.71	
For >2,000 To 5,000, Deduct	-18.02	
For >5,000, Deduct	-26.99	
33 01 30 71-0071 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	252.07	
For Up To 75, Add	53.62	
For >75 To 150, Add	25.21	
For >500 To 1,000, Deduct	-6.32	
For >1,000 To 2,000, Deduct	-12.33	
For >2,000 To 5,000, Deduct	-18.97	
For >5,000, Deduct	-28.41	
33 01 30 71-0072 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane.....	8.02	
<b>33 01 30 71-0073 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0002)</b>		
Note: Two part structural polyurethane.		
33 01 30 71-0074 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	87.95	
For Up To 75, Add	18.60	
For >75 To 150, Add	8.80	
For >500 To 1,000, Deduct	-2.16	
For >1,000 To 2,000, Deduct	-4.23	
For >2,000 To 5,000, Deduct	-6.49	
For >5,000, Deduct	-9.81	
33 01 30 71-0075 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	102.61	
For Up To 75, Add	21.70	
For >75 To 150, Add	10.26	
For >500 To 1,000, Deduct	-2.52	
For >1,000 To 2,000, Deduct	-4.93	
For >2,000 To 5,000, Deduct	-7.57	
For >5,000, Deduct	-11.44	
33 01 30 71-0076 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	117.28	
For Up To 75, Add	24.81	
For >75 To 150, Add	11.73	
For >500 To 1,000, Deduct	-2.89	
For >1,000 To 2,000, Deduct	-5.64	
For >2,000 To 5,000, Deduct	-8.66	
For >5,000, Deduct	-13.08	
33 01 30 71-0077 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	131.93	
For Up To 75, Add	27.90	
For >75 To 150, Add	13.19	
For >500 To 1,000, Deduct	-3.25	
For >1,000 To 2,000, Deduct	-6.34	
For >2,000 To 5,000, Deduct	-9.74	
For >5,000, Deduct	-14.71	
33 01 30 71-0078 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	146.59	
For Up To 75, Add	31.00	
For >75 To 150, Add	14.66	
For >500 To 1,000, Deduct	-3.61	
For >1,000 To 2,000, Deduct	-7.04	
For >2,000 To 5,000, Deduct	-10.82	
For >5,000, Deduct	-16.35	
33 01 30 71-0079 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	161.24	
For Up To 75, Add	34.10	
For >75 To 150, Add	16.12	
For >500 To 1,000, Deduct	-3.97	
For >1,000 To 2,000, Deduct	-7.75	
For >2,000 To 5,000, Deduct	-11.90	
For >5,000, Deduct	-17.98	
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	175.91	
For Up To 75, Add	37.21	
For >75 To 150, Add	17.59	
For >500 To 1,000, Deduct	-4.33	
For >1,000 To 2,000, Deduct	-8.45	
For >2,000 To 5,000, Deduct	-12.98	
For >5,000, Deduct	-19.61	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	190.56	
For Up To 75, Add	40.30	
For >75 To 150, Add	19.06	
For >500 To 1,000, Deduct	-4.69	
For >1,000 To 2,000, Deduct	-9.16	
For >2,000 To 5,000, Deduct	-14.06	
For >5,000, Deduct	-21.25	
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	205.22	
For Up To 75, Add	43.40	
For >75 To 150, Add	20.52	
For >500 To 1,000, Deduct	-5.05	
For >1,000 To 2,000, Deduct	-9.86	
For >2,000 To 5,000, Deduct	-15.15	
For >5,000, Deduct	-22.88	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	219.88	
For Up To 75, Add	46.51	
For >75 To 150, Add	21.99	
For >500 To 1,000, Deduct	-5.41	
For >1,000 To 2,000, Deduct	-10.57	
For >2,000 To 5,000, Deduct	-16.23	
For >5,000, Deduct	-24.52	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	234.54	
For Up To 75, Add	49.61	
For >75 To 150, Add	23.45	
For >500 To 1,000, Deduct	-5.77	
For >1,000 To 2,000, Deduct	-11.27	
For >2,000 To 5,000, Deduct	-17.31	
For >5,000, Deduct	-26.15	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	249.21	
For Up To 75, Add	52.71	
For >75 To 150, Add	24.92	
For >500 To 1,000, Deduct	-6.13	
For >1,000 To 2,000, Deduct	-11.98	
For >2,000 To 5,000, Deduct	-18.39	
For >5,000, Deduct	-27.79	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	263.85	
For Up To 75, Add	55.81	
For >75 To 150, Add	26.39	
For >500 To 1,000, Deduct	-6.49	
For >1,000 To 2,000, Deduct	-12.68	
For >2,000 To 5,000, Deduct	-19.47	
For >5,000, Deduct	-29.42	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	278.52	
For Up To 75, Add	58.91	
For >75 To 150, Add	27.85	
For >500 To 1,000, Deduct	-6.85	
For >1,000 To 2,000, Deduct	-13.38	
For >2,000 To 5,000, Deduct	-20.56	
For >5,000, Deduct	-31.06	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	293.17	
For Up To 75, Add	62.01	
For >75 To 150, Add	29.32	
For >500 To 1,000, Deduct	-7.21	
For >1,000 To 2,000, Deduct	-14.09	
For >2,000 To 5,000, Deduct	-21.64	
For >5,000, Deduct	-32.69	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane .....	9.34	
<b>33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	112.71	
For Up To 75, Add	23.67	
For >75 To 150, Add	11.27	
For >500 To 1,000, Deduct	-2.70	
For >1,000 To 2,000, Deduct	-5.30	
For >2,000 To 5,000, Deduct	-8.11	
For >5,000, Deduct	-12.40	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	131.51	
For Up To 75, Add	27.61	
For >75 To 150, Add	13.15	
For >500 To 1,000, Deduct	-3.16	
For >1,000 To 2,000, Deduct	-6.18	
For >2,000 To 5,000, Deduct	-9.47	
For >5,000, Deduct	-14.46	
33 01 30 71-0093 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	150.29	
For Up To 75, Add	31.56	
For >75 To 150, Add	15.03	
For >500 To 1,000, Deduct	-3.61	
For >1,000 To 2,000, Deduct	-7.06	
For >2,000 To 5,000, Deduct	-10.82	
For >5,000, Deduct	-16.53	
33 01 30 71-0094 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	169.08	
For Up To 75, Add	35.50	
For >75 To 150, Add	16.91	
For >500 To 1,000, Deduct	-4.06	
For >1,000 To 2,000, Deduct	-7.94	
For >2,000 To 5,000, Deduct	-12.17	
For >5,000, Deduct	-18.59	
33 01 30 71-0095 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	187.86	
For Up To 75, Add	39.45	
For >75 To 150, Add	18.79	
For >500 To 1,000, Deduct	-4.51	
For >1,000 To 2,000, Deduct	-8.83	
For >2,000 To 5,000, Deduct	-13.52	
For >5,000, Deduct	-20.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0096 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	206.65	
<i>For Up To 75, Add</i>	43.39	
<i>For &gt;75 To 150, Add</i>	20.67	
<i>For &gt;500 To 1,000, Deduct</i>	-4.96	
<i>For &gt;1,000 To 2,000, Deduct</i>	-9.71	
<i>For &gt;2,000 To 5,000, Deduct</i>	-14.87	
<i>For &gt;5,000, Deduct</i>	-22.73	
33 01 30 71-0097 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	225.44	
<i>For Up To 75, Add</i>	47.34	
<i>For &gt;75 To 150, Add</i>	22.54	
<i>For &gt;500 To 1,000, Deduct</i>	-5.41	
<i>For &gt;1,000 To 2,000, Deduct</i>	-10.59	
<i>For &gt;2,000 To 5,000, Deduct</i>	-16.22	
<i>For &gt;5,000, Deduct</i>	-24.79	
33 01 30 71-0098 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	244.23	
<i>For Up To 75, Add</i>	51.28	
<i>For &gt;75 To 150, Add</i>	24.42	
<i>For &gt;500 To 1,000, Deduct</i>	-5.86	
<i>For &gt;1,000 To 2,000, Deduct</i>	-11.47	
<i>For &gt;2,000 To 5,000, Deduct</i>	-17.58	
<i>For &gt;5,000, Deduct</i>	-26.86	
33 01 30 71-0099 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	263.01	
<i>For Up To 75, Add</i>	55.23	
<i>For &gt;75 To 150, Add</i>	26.30	
<i>For &gt;500 To 1,000, Deduct</i>	-6.31	
<i>For &gt;1,000 To 2,000, Deduct</i>	-12.36	
<i>For &gt;2,000 To 5,000, Deduct</i>	-18.93	
<i>For &gt;5,000, Deduct</i>	-28.92	
33 01 30 71-0100 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	281.79	
<i>For Up To 75, Add</i>	59.17	
<i>For &gt;75 To 150, Add</i>	28.18	
<i>For &gt;500 To 1,000, Deduct</i>	-6.76	
<i>For &gt;1,000 To 2,000, Deduct</i>	-13.24	
<i>For &gt;2,000 To 5,000, Deduct</i>	-20.28	
<i>For &gt;5,000, Deduct</i>	-30.99	
33 01 30 71-0101 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	300.57	
<i>For Up To 75, Add</i>	63.11	
<i>For &gt;75 To 150, Add</i>	30.06	
<i>For &gt;500 To 1,000, Deduct</i>	-7.21	
<i>For &gt;1,000 To 2,000, Deduct</i>	-14.12	
<i>For &gt;2,000 To 5,000, Deduct</i>	-21.63	
<i>For &gt;5,000, Deduct</i>	-33.05	
33 01 30 71-0102 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	319.36	
<i>For Up To 75, Add</i>	67.06	
<i>For &gt;75 To 150, Add</i>	31.94	
<i>For &gt;500 To 1,000, Deduct</i>	-7.66	
<i>For &gt;1,000 To 2,000, Deduct</i>	-15.00	
<i>For &gt;2,000 To 5,000, Deduct</i>	-22.98	
<i>For &gt;5,000, Deduct</i>	-35.12	
33 01 30 71-0103 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	338.14	
<i>For Up To 75, Add</i>	71.00	
<i>For &gt;75 To 150, Add</i>	33.81	
<i>For &gt;500 To 1,000, Deduct</i>	-8.11	
<i>For &gt;1,000 To 2,000, Deduct</i>	-15.89	
<i>For &gt;2,000 To 5,000, Deduct</i>	-24.33	
<i>For &gt;5,000, Deduct</i>	-37.19	
33 01 30 71-0104 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	356.94	
<i>For Up To 75, Add</i>	74.95	
<i>For &gt;75 To 150, Add</i>	35.69	
<i>For &gt;500 To 1,000, Deduct</i>	-8.56	
<i>For &gt;1,000 To 2,000, Deduct</i>	-16.77	
<i>For &gt;2,000 To 5,000, Deduct</i>	-25.69	
<i>For &gt;5,000, Deduct</i>	-39.25	
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	375.73	
<i>For Up To 75, Add</i>	78.89	
<i>For &gt;75 To 150, Add</i>	37.57	
<i>For &gt;500 To 1,000, Deduct</i>	-9.01	
<i>For &gt;1,000 To 2,000, Deduct</i>	-17.65	
<i>For &gt;2,000 To 5,000, Deduct</i>	-27.04	
<i>For &gt;5,000, Deduct</i>	-41.32	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane.....	11.96	
<b>33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane</b> <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	137.78	
<i>For Up To 75, Add</i>	28.81	
<i>For &gt;75 To 150, Add</i>	13.78	
<i>For &gt;500 To 1,000, Deduct</i>	-3.26	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.39	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.77	
<i>For &gt;5,000, Deduct</i>	-15.03	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	160.73	
For Up To 75, Add	33.60	
For >75 To 150, Add	16.07	
For >500 To 1,000, Deduct	-3.80	
For >1,000 To 2,000, Deduct	-7.45	
For >2,000 To 5,000, Deduct	-11.39	
For >5,000, Deduct	-17.53	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	183.70	
For Up To 75, Add	38.41	
For >75 To 150, Add	18.37	
For >500 To 1,000, Deduct	-4.34	
For >1,000 To 2,000, Deduct	-8.51	
For >2,000 To 5,000, Deduct	-13.02	
For >5,000, Deduct	-20.04	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	206.66	
For Up To 75, Add	43.21	
For >75 To 150, Add	20.67	
For >500 To 1,000, Deduct	-4.88	
For >1,000 To 2,000, Deduct	-9.58	
For >2,000 To 5,000, Deduct	-14.65	
For >5,000, Deduct	-22.54	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	229.63	
For Up To 75, Add	48.01	
For >75 To 150, Add	22.96	
For >500 To 1,000, Deduct	-5.43	
For >1,000 To 2,000, Deduct	-10.64	
For >2,000 To 5,000, Deduct	-16.28	
For >5,000, Deduct	-25.05	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	252.59	
For Up To 75, Add	52.81	
For >75 To 150, Add	25.26	
For >500 To 1,000, Deduct	-5.97	
For >1,000 To 2,000, Deduct	-11.71	
For >2,000 To 5,000, Deduct	-17.90	
For >5,000, Deduct	-27.55	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	275.54	
For Up To 75, Add	57.61	
For >75 To 150, Add	27.55	
For >500 To 1,000, Deduct	-6.51	
For >1,000 To 2,000, Deduct	-12.77	
For >2,000 To 5,000, Deduct	-19.53	
For >5,000, Deduct	-30.05	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	298.51	
For Up To 75, Add	62.41	
For >75 To 150, Add	29.85	
For >500 To 1,000, Deduct	-7.05	
For >1,000 To 2,000, Deduct	-13.83	
For >2,000 To 5,000, Deduct	-21.16	
For >5,000, Deduct	-32.56	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	321.47	
For Up To 75, Add	67.21	
For >75 To 150, Add	32.15	
For >500 To 1,000, Deduct	-7.60	
For >1,000 To 2,000, Deduct	-14.90	
For >2,000 To 5,000, Deduct	-22.79	
For >5,000, Deduct	-35.06	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	344.43	
For Up To 75, Add	72.01	
For >75 To 150, Add	34.44	
For >500 To 1,000, Deduct	-8.14	
For >1,000 To 2,000, Deduct	-15.96	
For >2,000 To 5,000, Deduct	-24.41	
For >5,000, Deduct	-37.57	
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	367.40	
For Up To 75, Add	76.81	
For >75 To 150, Add	36.74	
For >500 To 1,000, Deduct	-8.68	
For >1,000 To 2,000, Deduct	-17.03	
For >2,000 To 5,000, Deduct	-26.04	
For >5,000, Deduct	-40.07	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	390.36	
For Up To 75, Add	81.61	
For >75 To 150, Add	39.04	
For >500 To 1,000, Deduct	-9.22	
For >1,000 To 2,000, Deduct	-18.09	
For >2,000 To 5,000, Deduct	-27.67	
For >5,000, Deduct	-42.58	
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	413.33	
For Up To 75, Add	86.41	
For >75 To 150, Add	41.33	
For >500 To 1,000, Deduct	-9.77	
For >1,000 To 2,000, Deduct	-19.16	
For >2,000 To 5,000, Deduct	-29.30	
For >5,000, Deduct	-45.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	436.28	
For Up To 75, Add	91.21	
For >75 To 150, Add	43.63	
For >500 To 1,000, Deduct	-10.31	
For >1,000 To 2,000, Deduct	-20.22	
For >2,000 To 5,000, Deduct	-30.92	
For >5,000, Deduct	-47.58	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	459.24	
For Up To 75, Add	96.01	
For >75 To 150, Add	45.92	
For >500 To 1,000, Deduct	-10.85	
For >1,000 To 2,000, Deduct	-21.28	
For >2,000 To 5,000, Deduct	-32.55	
For >5,000, Deduct	-50.09	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane.....	14.62	
 <b>33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)</b>		
33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)		
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,248.74	
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,081.25	
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,121.87	
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	4,162.49	
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	624.37	
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,040.62	
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,300.78	
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	1,665.00	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,040.62	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,497.50	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,162.49	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP).....	6,243.74	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)		
(33 01 30 72-0001)		
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting.		
33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	15.59	
For Vinylster Resin, Add	3.26	
For Epoxy Resin, Add	0.38	
For Up To >10, Add	35.12	
For >10 To 25, Add	28.49	
For >25 To 50, Add	17.33	
For >50 To 100, Add	8.66	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.55	
For >2,000 To 5,000, Deduct	-2.47	
For >5,000, Deduct	-3.75	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	18.14	
For Vinylster Resin, Add	5.05	
For Epoxy Resin, Add	0.59	
For Up To >10, Add	36.40	
For >10 To 25, Add	29.13	
For >25 To 50, Add	17.84	
For >50 To 100, Add	8.92	
For >500 To 1,000, Deduct	-0.96	
For >1,000 To 2,000, Deduct	-1.65	
For >2,000 To 5,000, Deduct	-2.62	
For >5,000, Deduct	-4.00	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	20.70	
For Vinlyester Resin, Add	6.84	
For Epoxy Resin, Add	0.81	
For Up To >10, Add	37.68	
For >10 To 25, Add	29.77	
For >25 To 50, Add	18.35	
For >50 To 100, Add	9.17	
For >500 To 1,000, Deduct	-1.02	
For >1,000 To 2,000, Deduct	-1.76	
For >2,000 To 5,000, Deduct	-2.77	
For >5,000, Deduct	-4.26	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	26.85	
For Vinlyester Resin, Add	10.42	
For Epoxy Resin, Add	1.23	
For Up To >10, Add	43.35	
For >10 To 25, Add	33.65	
For >25 To 50, Add	20.93	
For >50 To 100, Add	10.47	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-2.09	
For >2,000 To 5,000, Deduct	-3.29	
For >5,000, Deduct	-5.08	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	33.00	
For Vinlyester Resin, Add	13.99	
For Epoxy Resin, Add	1.65	
For Up To >10, Add	49.03	
For >10 To 25, Add	37.52	
For >25 To 50, Add	23.51	
For >50 To 100, Add	11.76	
For >500 To 1,000, Deduct	-1.38	
For >1,000 To 2,000, Deduct	-2.43	
For >2,000 To 5,000, Deduct	-3.80	
For >5,000, Deduct	-5.90	
<b>33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	20.34	
For Vinlyester Resin, Add	6.59	
For Epoxy Resin, Add	0.78	
For Up To >10, Add	37.50	
For >10 To 25, Add	29.68	
For >25 To 50, Add	18.28	
For >50 To 100, Add	9.14	
For >500 To 1,000, Deduct	-1.01	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000 To 5,000, Deduct	-2.75	
For >5,000, Deduct	-4.22	
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	23.75	
For Vinlyester Resin, Add	8.97	
For Epoxy Resin, Add	1.06	
For Up To >10, Add	39.20	
For >10 To 25, Add	30.53	
For >25 To 50, Add	18.96	
For >50 To 100, Add	9.48	
For >500 To 1,000, Deduct	-1.08	
For >1,000 To 2,000, Deduct	-1.88	
For >2,000 To 5,000, Deduct	-2.96	
For >5,000, Deduct	-4.56	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	31.60	
For Vinlyester Resin, Add	13.74	
For Epoxy Resin, Add	1.62	
For Up To >10, Add	45.73	
For >10 To 25, Add	34.83	
For >25 To 50, Add	21.88	
For >50 To 100, Add	10.94	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.28	
For >2,000 To 5,000, Deduct	-3.57	
For >5,000, Deduct	-5.55	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	39.46	
For Vinlyester Resin, Add	18.52	
For Epoxy Resin, Add	2.18	
For Up To >10, Add	52.26	
For >10 To 25, Add	39.14	
For >25 To 50, Add	24.81	
For >50 To 100, Add	12.40	
For >500 To 1,000, Deduct	-1.50	
For >1,000 To 2,000, Deduct	-2.68	
For >2,000 To 5,000, Deduct	-4.19	
For >5,000, Deduct	-6.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	47.41	
For Vinlyester Resin, Add	23.28	
For Epoxy Resin, Add	2.74	
For Up To >10, Add	59.08	
For >10 To 25, Add	43.69	
For >25 To 50, Add	27.88	
For >50 To 100, Add	13.94	
For >500 To 1,000, Deduct	-1.73	
For >1,000 To 2,000, Deduct	-3.10	
For >2,000 To 5,000, Deduct	-4.83	
For >5,000, Deduct	-7.57	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	55.68	
For Vinlyester Resin, Add	28.05	
For Epoxy Resin, Add	3.31	
For Up To >10, Add	66.87	
For >10 To 25, Add	49.04	
For >25 To 50, Add	31.43	
For >50 To 100, Add	15.71	
For >500 To 1,000, Deduct	-1.97	
For >1,000 To 2,000, Deduct	-3.55	
For >2,000 To 5,000, Deduct	-5.53	
For >5,000, Deduct	-8.69	
<b>33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	26.70	
For Vinlyester Resin, Add	11.04	
For Epoxy Resin, Add	1.30	
For Up To >10, Add	40.68	
For >10 To 25, Add	31.27	
For >25 To 50, Add	19.55	
For >50 To 100, Add	9.77	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-2.00	
For >2,000 To 5,000, Deduct	-3.13	
For >5,000, Deduct	-4.86	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	36.26	
For Vinlyester Resin, Add	17.00	
For Epoxy Resin, Add	2.00	
For Up To >10, Add	48.06	
For >10 To 25, Add	36.00	
For >25 To 50, Add	22.81	
For >50 To 100, Add	11.41	
For >500 To 1,000, Deduct	-1.38	
For >1,000 To 2,000, Deduct	-2.47	
For >2,000 To 5,000, Deduct	-3.85	
For >5,000, Deduct	-6.02	
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	45.82	
For Vinlyester Resin, Add	22.97	
For Epoxy Resin, Add	2.71	
For Up To >10, Add	55.44	
For >10 To 25, Add	40.73	
For >25 To 50, Add	26.08	
For >50 To 100, Add	13.04	
For >500 To 1,000, Deduct	-1.63	
For >1,000 To 2,000, Deduct	-2.94	
For >2,000 To 5,000, Deduct	-4.57	
For >5,000, Deduct	-7.18	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	55.47	
For Vinlyester Resin, Add	28.92	
For Epoxy Resin, Add	3.41	
For Up To >10, Add	63.11	
For >10 To 25, Add	45.71	
For >25 To 50, Add	29.49	
For >50 To 100, Add	14.74	
For >500 To 1,000, Deduct	-1.89	
For >1,000 To 2,000, Deduct	-3.42	
For >2,000 To 5,000, Deduct	-5.31	
For >5,000, Deduct	-8.38	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	65.45	
For Vinlyester Resin, Add	34.89	
For Epoxy Resin, Add	4.11	
For Up To >10, Add	71.75	
For >10 To 25, Add	51.49	
For >25 To 50, Add	33.38	
For >50 To 100, Add	16.69	
For >500 To 1,000, Deduct	-2.17	
For >1,000 To 2,000, Deduct	-3.94	
For >2,000 To 5,000, Deduct	-6.11	
For >5,000, Deduct	-9.67	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	80.30	
For Vinylster Resin, Add	43.83	
For Epoxy Resin, Add	5.17	
For Up To >10, Add	84.38	
For >10 To 25, Add	59.88	
For >25 To 50, Add	39.06	
For >50 To 100, Add	19.53	
For >500 To 1,000, Deduct	-2.58	
For >1,000 To 2,000, Deduct	-4.72	
For >2,000 To 5,000, Deduct	-7.29	
For >5,000, Deduct	-11.57	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	95.36	
For Vinylster Resin, Add	52.77	
For Epoxy Resin, Add	6.22	
For Up To >10, Add	97.63	
For >10 To 25, Add	68.80	
For >25 To 50, Add	45.05	
For >50 To 100, Add	22.52	
For >500 To 1,000, Deduct	-3.01	
For >1,000 To 2,000, Deduct	-5.51	
For >2,000 To 5,000, Deduct	-8.52	
For >5,000, Deduct	-13.53	
<b>33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	40.81	
For Vinylster Resin, Add	20.19	
For Epoxy Resin, Add	2.38	
For Up To >10, Add	50.33	
For >10 To 25, Add	37.14	
For >25 To 50, Add	23.72	
For >50 To 100, Add	11.86	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.65	
For >2,000 To 5,000, Deduct	-4.12	
For >5,000, Deduct	-6.48	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	52.07	
For Vinylster Resin, Add	27.34	
For Epoxy Resin, Add	3.22	
For Up To >10, Add	58.56	
For >10 To 25, Add	42.29	
For >25 To 50, Add	27.33	
For >50 To 100, Add	13.66	
For >500 To 1,000, Deduct	-1.76	
For >1,000 To 2,000, Deduct	-3.19	
For >2,000 To 5,000, Deduct	-4.95	
For >5,000, Deduct	-7.81	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	63.44	
For Vinylster Resin, Add	34.50	
For Epoxy Resin, Add	4.07	
For Up To >10, Add	67.10	
For >10 To 25, Add	47.70	
For >25 To 50, Add	31.08	
For >50 To 100, Add	15.54	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-3.74	
For >2,000 To 5,000, Deduct	-5.79	
For >5,000, Deduct	-9.17	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	75.11	
For Vinylster Resin, Add	41.65	
For Epoxy Resin, Add	4.91	
For Up To >10, Add	76.58	
For >10 To 25, Add	53.90	
For >25 To 50, Add	35.32	
For >50 To 100, Add	17.66	
For >500 To 1,000, Deduct	-2.36	
For >1,000 To 2,000, Deduct	-4.33	
For >2,000 To 5,000, Deduct	-6.69	
For >5,000, Deduct	-10.63	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	92.52	
For Vinylster Resin, Add	52.38	
For Epoxy Resin, Add	6.17	
For Up To >10, Add	90.49	
For >10 To 25, Add	62.93	
For >25 To 50, Add	41.50	
For >50 To 100, Add	20.75	
For >500 To 1,000, Deduct	-2.82	
For >1,000 To 2,000, Deduct	-5.20	
For >2,000 To 5,000, Deduct	-8.03	
For >5,000, Deduct	-12.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	110.14	
For Vinlyester Resin, Add	63.11	
For Epoxy Resin, Add	7.44	
For Up To >10, Add	105.02	
For >10 To 25, Add	72.49	
For >25 To 50, Add	48.00	
For >50 To 100, Add	24.00	
For >500 To 1,000, Deduct	-3.30	
For >1,000 To 2,000, Deduct	-6.10	
For >2,000 To 5,000, Deduct	-9.41	
For >5,000, Deduct	-15.01	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	127.14	
For Vinlyester Resin, Add	73.84	
For Epoxy Resin, Add	8.70	
For Up To >10, Add	117.70	
For >10 To 25, Add	80.50	
For >25 To 50, Add	53.57	
For >50 To 100, Add	26.79	
For >500 To 1,000, Deduct	-3.73	
For >1,000 To 2,000, Deduct	-6.93	
For >2,000 To 5,000, Deduct	-10.66	
For >5,000, Deduct	-17.04	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	144.44	
For Vinlyester Resin, Add	84.57	
For Epoxy Resin, Add	9.97	
For Up To >10, Add	131.27	
For >10 To 25, Add	89.26	
For >25 To 50, Add	59.59	
For >50 To 100, Add	29.80	
For >500 To 1,000, Deduct	-4.19	
For >1,000 To 2,000, Deduct	-7.79	
For >2,000 To 5,000, Deduct	-11.97	
For >5,000, Deduct	-19.17	
<b>33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	104.64	
For Vinlyester Resin, Add	60.87	
For Epoxy Resin, Add	7.17	
For Up To >10, Add	96.55	
For >10 To 25, Add	65.96	
For >25 To 50, Add	43.93	
For >50 To 100, Add	21.96	
For >500 To 1,000, Deduct	-3.07	
For >1,000 To 2,000, Deduct	-5.69	
For >2,000 To 5,000, Deduct	-8.76	
For >5,000, Deduct	-14.00	
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	124.81	
For Vinlyester Resin, Add	73.38	
For Epoxy Resin, Add	8.65	
For Up To >10, Add	112.36	
For >10 To 25, Add	76.16	
For >25 To 50, Add	50.94	
For >50 To 100, Add	25.47	
For >500 To 1,000, Deduct	-3.60	
For >1,000 To 2,000, Deduct	-6.69	
For >2,000 To 5,000, Deduct	-10.29	
For >5,000, Deduct	-16.48	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	144.37	
For Vinlyester Resin, Add	85.90	
For Epoxy Resin, Add	10.12	
For Up To >10, Add	126.31	
For >10 To 25, Add	84.81	
For >25 To 50, Add	57.02	
For >50 To 100, Add	28.51	
For >500 To 1,000, Deduct	-4.08	
For >1,000 To 2,000, Deduct	-7.62	
For >2,000 To 5,000, Deduct	-11.69	
For >5,000, Deduct	-18.77	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	164.22	
For Vinlyester Resin, Add	98.42	
For Epoxy Resin, Add	11.60	
For Up To >10, Add	141.16	
For >10 To 25, Add	94.20	
For >25 To 50, Add	63.55	
For >50 To 100, Add	31.78	
For >500 To 1,000, Deduct	-4.58	
For >1,000 To 2,000, Deduct	-8.58	
For >2,000 To 5,000, Deduct	-13.16	
For >5,000, Deduct	-21.15	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	184.49	
For Vinlyester Resin, Add	110.94	
For Epoxy Resin, Add	13.07	
For Up To >10, Add	157.27	
For >10 To 25, Add	104.65	
For >25 To 50, Add	70.71	
For >50 To 100, Add	35.36	
For >500 To 1,000, Deduct	-5.12	
For >1,000 To 2,000, Deduct	-9.59	
For >2,000 To 5,000, Deduct	-14.71	
For >5,000, Deduct	-23.65	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	205.30	
For Vinlyester Resin, Add	123.46	
For Epoxy Resin, Add	14.55	
For Up To >10, Add	174.98	
For >10 To 25, Add	116.42	
For >25 To 50, Add	78.67	
For >50 To 100, Add	39.33	
For >500 To 1,000, Deduct	-5.70	
For >1,000 To 2,000, Deduct	-10.67	
For >2,000 To 5,000, Deduct	-16.37	
For >5,000, Deduct	-26.32	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	244.71	
For Vinlyester Resin, Add	148.49	
For Epoxy Resin, Add	17.50	
For Up To >10, Add	203.81	
For >10 To 25, Add	134.48	
For >25 To 50, Add	91.30	
For >50 To 100, Add	45.65	
For >500 To 1,000, Deduct	-6.69	
For >1,000 To 2,000, Deduct	-12.56	
For >2,000 To 5,000, Deduct	-19.24	
For >5,000, Deduct	-30.99	
<b>33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	116.66	
For Vinlyester Resin, Add	69.28	
For Epoxy Resin, Add	8.17	
For Up To >10, Add	102.56	
For >10 To 25, Add	68.97	
For >25 To 50, Add	46.33	
For >50 To 100, Add	23.16	
For >500 To 1,000, Deduct	-3.31	
For >1,000 To 2,000, Deduct	-6.17	
For >2,000 To 5,000, Deduct	-9.48	
For >5,000, Deduct	-15.20	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	139.39	
For Vinlyester Resin, Add	83.59	
For Epoxy Resin, Add	9.85	
For Up To >10, Add	119.65	
For >10 To 25, Add	79.80	
For >25 To 50, Add	53.85	
For >50 To 100, Add	26.93	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-7.27	
For >2,000 To 5,000, Deduct	-11.16	
For >5,000, Deduct	-17.94	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	161.50	
For Vinlyester Resin, Add	97.90	
For Epoxy Resin, Add	11.54	
For Up To >10, Add	134.88	
For >10 To 25, Add	89.09	
For >25 To 50, Add	60.45	
For >50 To 100, Add	30.22	
For >500 To 1,000, Deduct	-4.42	
For >1,000 To 2,000, Deduct	-8.30	
For >2,000 To 5,000, Deduct	-12.72	
For >5,000, Deduct	-20.48	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	183.90	
For Vinlyester Resin, Add	112.20	
For Epoxy Resin, Add	13.22	
For Up To >10, Add	151.00	
For >10 To 25, Add	99.12	
For >25 To 50, Add	67.49	
For >50 To 100, Add	33.74	
For >500 To 1,000, Deduct	-4.98	
For >1,000 To 2,000, Deduct	-9.36	
For >2,000 To 5,000, Deduct	-14.34	
For >5,000, Deduct	-23.11	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	206.73	
For Vinylster Resin, Add	126.50	
For Epoxy Resin, Add	14.91	
For Up To >10, Add	168.39	
For >10 To 25, Add	110.21	
For >25 To 50, Add	75.16	
For >50 To 100, Add	37.58	
For >500 To 1,000, Deduct	-5.57	
For >1,000 To 2,000, Deduct	-10.48	
For >2,000 To 5,000, Deduct	-16.05	
For >5,000, Deduct	-25.88	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	230.09	
For Vinylster Resin, Add	140.81	
For Epoxy Resin, Add	16.60	
For Up To >10, Add	187.37	
For >10 To 25, Add	122.62	
For >25 To 50, Add	83.63	
For >50 To 100, Add	41.81	
For >500 To 1,000, Deduct	-6.19	
For >1,000 To 2,000, Deduct	-11.66	
For >2,000 To 5,000, Deduct	-17.86	
For >5,000, Deduct	-28.80	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	274.61	
For Vinylster Resin, Add	169.42	
For Epoxy Resin, Add	19.97	
For Up To >10, Add	218.76	
For >10 To 25, Add	141.96	
For >25 To 50, Add	97.28	
For >50 To 100, Add	48.64	
For >500 To 1,000, Deduct	-7.28	
For >1,000 To 2,000, Deduct	-13.75	
For >2,000 To 5,000, Deduct	-21.04	
For >5,000, Deduct	-33.98	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	320.06	
For Vinylster Resin, Add	198.04	
For Epoxy Resin, Add	23.34	
For Up To >10, Add	252.91	
For >10 To 25, Add	163.60	
For >25 To 50, Add	112.31	
For >50 To 100, Add	56.15	
For >500 To 1,000, Deduct	-8.44	
For >1,000 To 2,000, Deduct	-15.96	
For >2,000 To 5,000, Deduct	-24.40	
For >5,000, Deduct	-39.44	
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	367.17	
For Vinylster Resin, Add	226.65	
For Epoxy Resin, Add	26.71	
For Up To >10, Add	292.06	
For >10 To 25, Add	189.42	
For >25 To 50, Add	129.84	
For >50 To 100, Add	64.92	
For >500 To 1,000, Deduct	-9.73	
For >1,000 To 2,000, Deduct	-18.37	
For >2,000 To 5,000, Deduct	-28.10	
For >5,000, Deduct	-45.40	
<b>33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	128.58	
For Vinylster Resin, Add	77.62	
For Epoxy Resin, Add	9.15	
For Up To >10, Add	108.52	
For >10 To 25, Add	71.95	
For >25 To 50, Add	48.71	
For >50 To 100, Add	24.36	
For >500 To 1,000, Deduct	-3.54	
For >1,000 To 2,000, Deduct	-6.65	
For >2,000 To 5,000, Deduct	-10.19	
For >5,000, Deduct	-16.40	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	153.86	
For Vinylster Resin, Add	93.72	
For Epoxy Resin, Add	11.05	
For Up To >10, Add	126.88	
For >10 To 25, Add	83.42	
For >25 To 50, Add	56.75	
For >50 To 100, Add	28.37	
For >500 To 1,000, Deduct	-4.18	
For >1,000 To 2,000, Deduct	-7.85	
For >2,000 To 5,000, Deduct	-12.03	
For >5,000, Deduct	-19.38	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	178.52	
For Vinlyester Resin, Add	109.81	
For Epoxy Resin, Add	12.94	
For Up To >10, Add	143.39	
For >10 To 25, Add	93.34	
For >25 To 50, Add	63.85	
For >50 To 100, Add	31.92	
For >500 To 1,000, Deduct	-4.76	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.74	
For >5,000, Deduct	-22.18	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	203.49	
For Vinlyester Resin, Add	125.91	
For Epoxy Resin, Add	14.84	
For Up To >10, Add	160.80	
For >10 To 25, Add	104.02	
For >25 To 50, Add	71.40	
For >50 To 100, Add	35.70	
For >500 To 1,000, Deduct	-5.37	
For >1,000 To 2,000, Deduct	-10.15	
For >2,000 To 5,000, Deduct	-15.52	
For >5,000, Deduct	-25.07	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	228.87	
For Vinlyester Resin, Add	142.00	
For Epoxy Resin, Add	16.74	
For Up To >10, Add	179.46	
For >10 To 25, Add	115.74	
For >25 To 50, Add	79.59	
For >50 To 100, Add	39.79	
For >500 To 1,000, Deduct	-6.01	
For >1,000 To 2,000, Deduct	-11.37	
For >2,000 To 5,000, Deduct	-17.37	
For >5,000, Deduct	-28.09	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	254.78	
For Vinlyester Resin, Add	158.10	
For Epoxy Resin, Add	18.63	
For Up To >10, Add	199.72	
For >10 To 25, Add	128.79	
For >25 To 50, Add	88.57	
For >50 To 100, Add	44.28	
For >500 To 1,000, Deduct	-6.69	
For >1,000 To 2,000, Deduct	-12.65	
For >2,000 To 5,000, Deduct	-19.34	
For >5,000, Deduct	-31.26	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	304.42	
For Vinlyester Resin, Add	190.29	
For Epoxy Resin, Add	22.43	
For Up To >10, Add	233.66	
For >10 To 25, Add	149.41	
For >25 To 50, Add	103.24	
For >50 To 100, Add	51.62	
For >500 To 1,000, Deduct	-7.88	
For >1,000 To 2,000, Deduct	-14.95	
For >2,000 To 5,000, Deduct	-22.83	
For >5,000, Deduct	-36.96	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	354.97	
For Vinlyester Resin, Add	222.47	
For Epoxy Resin, Add	26.22	
For Up To >10, Add	270.36	
For >10 To 25, Add	172.33	
For >25 To 50, Add	119.29	
For >50 To 100, Add	59.64	
For >500 To 1,000, Deduct	-9.14	
For >1,000 To 2,000, Deduct	-17.36	
For >2,000 To 5,000, Deduct	-26.50	
For >5,000, Deduct	-42.93	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	407.19	
For Vinlyester Resin, Add	254.66	
For Epoxy Resin, Add	30.01	
For Up To >10, Add	312.07	
For >10 To 25, Add	199.43	
For >25 To 50, Add	137.85	
For >50 To 100, Add	68.92	
For >500 To 1,000, Deduct	-10.53	
For >1,000 To 2,000, Deduct	-19.98	
For >2,000 To 5,000, Deduct	-30.51	
For >5,000, Deduct	-49.40	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	140.40	
For Vinyl Ester Resin, Add	85.90	
For Epoxy Resin, Add	10.12	
For Up To >10, Add	114.43	
For >10 To 25, Add	74.90	
For >25 To 50, Add	51.08	
For >50 To 100, Add	25.54	
For >500 To 1,000, Deduct	-3.78	
For >1,000 To 2,000, Deduct	-7.12	
For >2,000 To 5,000, Deduct	-10.90	
For >5,000, Deduct	-17.58	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	168.23	
For Vinyl Ester Resin, Add	103.78	
For Epoxy Resin, Add	12.23	
For Up To >10, Add	134.07	
For >10 To 25, Add	87.01	
For >25 To 50, Add	59.62	
For >50 To 100, Add	29.81	
For >500 To 1,000, Deduct	-4.46	
For >1,000 To 2,000, Deduct	-8.43	
For >2,000 To 5,000, Deduct	-12.89	
For >5,000, Deduct	-20.82	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	195.45	
For Vinyl Ester Resin, Add	121.66	
For Epoxy Resin, Add	14.34	
For Up To >10, Add	151.85	
For >10 To 25, Add	97.58	
For >25 To 50, Add	67.24	
For >50 To 100, Add	33.62	
For >500 To 1,000, Deduct	-5.10	
For >1,000 To 2,000, Deduct	-9.66	
For >2,000 To 5,000, Deduct	-14.76	
For >5,000, Deduct	-23.88	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	222.97	
For Vinyl Ester Resin, Add	139.55	
For Epoxy Resin, Add	16.45	
For Up To >10, Add	170.54	
For >10 To 25, Add	108.89	
For >25 To 50, Add	75.30	
For >50 To 100, Add	37.65	
For >500 To 1,000, Deduct	-5.76	
For >1,000 To 2,000, Deduct	-10.93	
For >2,000 To 5,000, Deduct	-16.69	
For >5,000, Deduct	-27.02	
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	250.90	
For Vinyl Ester Resin, Add	157.42	
For Epoxy Resin, Add	18.55	
For Up To >10, Add	190.48	
For >10 To 25, Add	121.25	
For >25 To 50, Add	83.99	
For >50 To 100, Add	42.00	
For >500 To 1,000, Deduct	-6.45	
For >1,000 To 2,000, Deduct	-12.25	
For >2,000 To 5,000, Deduct	-18.70	
For >5,000, Deduct	-30.29	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	279.37	
For Vinyl Ester Resin, Add	175.31	
For Epoxy Resin, Add	20.66	
For Up To >10, Add	212.01	
For >10 To 25, Add	134.94	
For >25 To 50, Add	93.48	
For >50 To 100, Add	46.74	
For >500 To 1,000, Deduct	-7.18	
For >1,000 To 2,000, Deduct	-13.63	
For >2,000 To 5,000, Deduct	-20.81	
For >5,000, Deduct	-33.72	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	334.12	
For Vinyl Ester Resin, Add	211.08	
For Epoxy Resin, Add	24.88	
For Up To >10, Add	248.51	
For >10 To 25, Add	156.84	
For >25 To 50, Add	109.18	
For >50 To 100, Add	54.59	
For >500 To 1,000, Deduct	-8.47	
For >1,000 To 2,000, Deduct	-16.13	
For >2,000 To 5,000, Deduct	-24.61	
For >5,000, Deduct	-39.93	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	389.78	
For Vinlyester Resin, Add	246.84	
For Epoxy Resin, Add	29.09	
For Up To >10, Add	287.77	
For >10 To 25, Add	181.03	
For >25 To 50, Add	126.25	
For >50 To 100, Add	63.13	
For >500 To 1,000, Deduct	-9.84	
For >1,000 To 2,000, Deduct	-18.75	
For >2,000 To 5,000, Deduct	-28.59	
For >5,000, Deduct	-46.41	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	447.11	
For Vinlyester Resin, Add	282.60	
For Epoxy Resin, Add	33.31	
For Up To >10, Add	332.03	
For >10 To 25, Add	209.41	
For >25 To 50, Add	145.83	
For >50 To 100, Add	72.91	
For >500 To 1,000, Deduct	-11.33	
For >1,000 To 2,000, Deduct	-21.57	
For >2,000 To 5,000, Deduct	-32.90	
For >5,000, Deduct	-53.39	
<b>33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	182.50	
For Vinlyester Resin, Add	113.76	
For Epoxy Resin, Add	13.41	
For Up To >10, Add	141.20	
For >10 To 25, Add	90.58	
For >25 To 50, Add	62.47	
For >50 To 100, Add	31.24	
For >500 To 1,000, Deduct	-4.75	
For >1,000 To 2,000, Deduct	-9.00	
For >2,000 To 5,000, Deduct	-13.75	
For >5,000, Deduct	-22.25	
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	212.28	
For Vinlyester Resin, Add	133.44	
For Epoxy Resin, Add	15.73	
For Up To >10, Add	160.27	
For >10 To 25, Add	101.78	
For >25 To 50, Add	70.60	
For >50 To 100, Add	35.30	
For >500 To 1,000, Deduct	-5.44	
For >1,000 To 2,000, Deduct	-10.33	
For >2,000 To 5,000, Deduct	-15.77	
For >5,000, Deduct	-25.56	
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	242.35	
For Vinlyester Resin, Add	153.11	
For Epoxy Resin, Add	18.05	
For Up To >10, Add	180.23	
For >10 To 25, Add	113.73	
For >25 To 50, Add	79.18	
For >50 To 100, Add	39.59	
For >500 To 1,000, Deduct	-6.15	
For >1,000 To 2,000, Deduct	-11.70	
For >2,000 To 5,000, Deduct	-17.85	
For >5,000, Deduct	-28.96	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	272.84	
For Vinlyester Resin, Add	172.78	
For Epoxy Resin, Add	20.36	
For Up To >10, Add	201.45	
For >10 To 25, Add	126.73	
For >25 To 50, Add	88.38	
For >50 To 100, Add	44.19	
For >500 To 1,000, Deduct	-6.89	
For >1,000 To 2,000, Deduct	-13.12	
For >2,000 To 5,000, Deduct	-20.01	
For >5,000, Deduct	-32.49	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	303.86	
For Vinlyester Resin, Add	192.45	
For Epoxy Resin, Add	22.68	
For Up To >10, Add	224.26	
For >10 To 25, Add	141.06	
For >25 To 50, Add	96.38	
For >50 To 100, Add	49.19	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,000, Deduct	-14.61	
For >2,000 To 5,000, Deduct	-22.28	
For >5,000, Deduct	-36.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	363.72	
For Vinlyester Resin, Add	231.80	
For Epoxy Resin, Add	27.32	
For Up To >10, Add	263.31	
For >10 To 25, Add	164.24	
For >25 To 50, Add	115.10	
For >50 To 100, Add	57.55	
For >500 To 1,000, Deduct	-9.07	
For >1,000 To 2,000, Deduct	-17.32	
For >2,000 To 5,000, Deduct	-26.38	
For >5,000, Deduct	-42.89	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	424.49	
For Vinlyester Resin, Add	271.14	
For Epoxy Resin, Add	31.96	
For Up To >10, Add	305.12	
For >10 To 25, Add	189.71	
For >25 To 50, Add	133.19	
For >50 To 100, Add	66.60	
For >500 To 1,000, Deduct	-10.53	
For >1,000 To 2,000, Deduct	-20.14	
For >2,000 To 5,000, Deduct	-30.67	
For >5,000, Deduct	-49.88	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	486.93	
For Vinlyester Resin, Add	310.48	
For Epoxy Resin, Add	36.59	
For Up To >10, Add	351.94	
For >10 To 25, Add	219.36	
For >25 To 50, Add	153.79	
For >50 To 100, Add	76.90	
For >500 To 1,000, Deduct	-12.13	
For >1,000 To 2,000, Deduct	-23.17	
For >2,000 To 5,000, Deduct	-35.29	
For >5,000, Deduct	-57.37	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	551.79	
For Vinlyester Resin, Add	349.83	
For Epoxy Resin, Add	41.23	
For Up To >10, Add	406.00	
For >10 To 25, Add	255.04	
For >25 To 50, Add	178.01	
For >50 To 100, Add	89.01	
For >500 To 1,000, Deduct	-13.90	
For >1,000 To 2,000, Deduct	-26.50	
For >2,000 To 5,000, Deduct	-40.39	
For >5,000, Deduct	-65.59	
<b>33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	197.72	
For Vinlyester Resin, Add	123.69	
For Epoxy Resin, Add	14.58	
For Up To >10, Add	151.41	
For >10 To 25, Add	96.73	
For >25 To 50, Add	66.87	
For >50 To 100, Add	33.44	
For >500 To 1,000, Deduct	-5.11	
For >1,000 To 2,000, Deduct	-9.70	
For >2,000 To 5,000, Deduct	-14.81	
For >5,000, Deduct	-23.98	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	230.14	
For Vinlyester Resin, Add	145.15	
For Epoxy Resin, Add	17.11	
For Up To >10, Add	172.05	
For >10 To 25, Add	108.81	
For >25 To 50, Add	75.66	
For >50 To 100, Add	37.83	
For >500 To 1,000, Deduct	-5.86	
For >1,000 To 2,000, Deduct	-11.14	
For >2,000 To 5,000, Deduct	-17.00	
For >5,000, Deduct	-27.57	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	262.88	
For Vinlyester Resin, Add	166.61	
For Epoxy Resin, Add	19.64	
For Up To >10, Add	193.62	
For >10 To 25, Add	121.68	
For >25 To 50, Add	84.91	
For >50 To 100, Add	42.45	
For >500 To 1,000, Deduct	-6.63	
For >1,000 To 2,000, Deduct	-12.63	
For >2,000 To 5,000, Deduct	-19.25	
For >5,000, Deduct	-31.26	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0098	LF		18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	296.04	
			For Vinlyester Resin, Add	188.07	
			For Epoxy Resin, Add	22.17	
			For Up To >10, Add	216.45	
			For >10 To 25, Add	135.59	
			For >25 To 50, Add	94.79	
			For >50 To 100, Add	47.39	
			For >500 To 1,000, Deduct	-7.43	
			For >1,000 To 2,000, Deduct	-14.17	
			For >2,000 To 5,000, Deduct	-21.59	
			For >5,000, Deduct	-35.08	
33 01 30 72-0099	LF		18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	329.71	
			For Vinlyester Resin, Add	209.52	
			For Epoxy Resin, Add	24.69	
			For Up To >10, Add	240.83	
			For >10 To 25, Add	150.81	
			For >25 To 50, Add	105.45	
			For >50 To 100, Add	52.72	
			For >500 To 1,000, Deduct	-8.27	
			For >1,000 To 2,000, Deduct	-15.77	
			For >2,000 To 5,000, Deduct	-24.04	
			For >5,000, Deduct	-39.05	
33 01 30 72-0100	LF		18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	394.77	
			For Vinlyester Resin, Add	252.45	
			For Epoxy Resin, Add	29.75	
			For Up To >10, Add	282.71	
			For >10 To 25, Add	175.49	
			For >25 To 50, Add	123.32	
			For >50 To 100, Add	61.66	
			For >500 To 1,000, Deduct	-9.77	
			For >1,000 To 2,000, Deduct	-18.69	
			For >2,000 To 5,000, Deduct	-28.46	
			For >5,000, Deduct	-46.30	
33 01 30 72-0101	LF		18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	460.97	
			For Vinlyester Resin, Add	295.37	
			For Epoxy Resin, Add	34.81	
			For Up To >10, Add	328.04	
			For >10 To 25, Add	203.04	
			For >25 To 50, Add	142.92	
			For >50 To 100, Add	71.46	
			For >500 To 1,000, Deduct	-11.37	
			For >1,000 To 2,000, Deduct	-21.76	
			For >2,000 To 5,000, Deduct	-33.12	
			For >5,000, Deduct	-53.90	
33 01 30 72-0102	LF		18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	528.84	
			For Vinlyester Resin, Add	338.28	
			For Epoxy Resin, Add	39.87	
			For Up To >10, Add	378.37	
			For >10 To 25, Add	234.77	
			For >25 To 50, Add	165.02	
			For >50 To 100, Add	82.51	
			For >500 To 1,000, Deduct	-13.08	
			For >1,000 To 2,000, Deduct	-25.03	
			For >2,000 To 5,000, Deduct	-38.11	
			For >5,000, Deduct	-62.00	
33 01 30 72-0103	LF		18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	599.21	
			For Vinlyester Resin, Add	381.21	
			For Epoxy Resin, Add	44.93	
			For Up To >10, Add	436.18	
			For >10 To 25, Add	272.72	
			For >25 To 50, Add	190.86	
			For >50 To 100, Add	95.43	
			For >500 To 1,000, Deduct	-14.99	
			For >1,000 To 2,000, Deduct	-28.61	
			For >2,000 To 5,000, Deduct	-43.60	
			For >5,000, Deduct	-70.85	
33 01 30 72-0104	LF		18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	676.86	
			For Vinlyester Resin, Add	424.12	
			For Epoxy Resin, Add	49.99	
			For Up To >10, Add	515.86	
			For >10 To 25, Add	328.90	
			For >25 To 50, Add	227.63	
			For >50 To 100, Add	113.82	
			For >500 To 1,000, Deduct	-17.44	
			For >1,000 To 2,000, Deduct	-33.11	
			For >2,000 To 5,000, Deduct	-50.55	
			For >5,000, Deduct	-81.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	763.98	
For Vinlyester Resin, Add	467.04	
For Epoxy Resin, Add	55.04	
For Up To >10, Add	623.94	
For >10 To 25, Add	408.75	
For >25 To 50, Add	278.61	
For >50 To 100, Add	139.31	
For >500 To 1,000, Deduct	-20.60	
For >1,000 To 2,000, Deduct	-38.79	
For >2,000 To 5,000, Deduct	-59.39	
For >5,000, Deduct	-95.75	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	858.59	
For Vinlyester Resin, Add	509.96	
For Epoxy Resin, Add	60.10	
For Up To >10, Add	754.50	
For >10 To 25, Add	507.33	
For >25 To 50, Add	340.82	
For >50 To 100, Add	170.41	
For >500 To 1,000, Deduct	-24.33	
For >1,000 To 2,000, Deduct	-45.40	
For >2,000 To 5,000, Deduct	-69.73	
For >5,000, Deduct	-111.88	
<b>33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	211.79	
For Vinlyester Resin, Add	133.54	
For Epoxy Resin, Add	15.74	
For Up To >10, Add	158.45	
For >10 To 25, Add	100.24	
For >25 To 50, Add	69.68	
For >50 To 100, Add	34.84	
For >500 To 1,000, Deduct	-5.39	
For >1,000 To 2,000, Deduct	-10.26	
For >2,000 To 5,000, Deduct	-15.65	
For >5,000, Deduct	-25.38	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	246.77	
For Vinlyester Resin, Add	156.79	
For Epoxy Resin, Add	18.48	
For Up To >10, Add	180.36	
For >10 To 25, Add	112.97	
For >25 To 50, Add	78.98	
For >50 To 100, Add	39.49	
For >500 To 1,000, Deduct	-6.19	
For >1,000 To 2,000, Deduct	-11.81	
For >2,000 To 5,000, Deduct	-18.00	
For >5,000, Deduct	-29.24	
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	282.06	
For Vinlyester Resin, Add	180.03	
For Epoxy Resin, Add	21.22	
For Up To >10, Add	203.21	
For >10 To 25, Add	126.47	
For >25 To 50, Add	88.74	
For >50 To 100, Add	44.37	
For >500 To 1,000, Deduct	-7.01	
For >1,000 To 2,000, Deduct	-13.40	
For >2,000 To 5,000, Deduct	-20.41	
For >5,000, Deduct	-33.18	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	317.77	
For Vinlyester Resin, Add	203.28	
For Epoxy Resin, Add	23.96	
For Up To >10, Add	227.31	
For >10 To 25, Add	141.03	
For >25 To 50, Add	99.14	
For >50 To 100, Add	49.57	
For >500 To 1,000, Deduct	-7.86	
For >1,000 To 2,000, Deduct	-15.04	
For >2,000 To 5,000, Deduct	-22.90	
For >5,000, Deduct	-37.25	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	354.00	
For Vinlyester Resin, Add	226.53	
For Epoxy Resin, Add	26.70	
For Up To >10, Add	252.98	
For >10 To 25, Add	156.88	
For >25 To 50, Add	110.31	
For >50 To 100, Add	55.15	
For >500 To 1,000, Deduct	-8.75	
For >1,000 To 2,000, Deduct	-16.74	
For >2,000 To 5,000, Deduct	-25.49	
For >5,000, Deduct	-41.48	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	424.17	
For Vinlyester Resin, Add	273.03	
For Epoxy Resin, Add	32.18	
For Up To >10, Add	297.41	
For >10 To 25, Add	182.84	
For >25 To 50, Add	129.20	
For >50 To 100, Add	64.60	
For >500 To 1,000, Deduct	-10.36	
For >1,000 To 2,000, Deduct	-19.87	
For >2,000 To 5,000, Deduct	-30.23	
For >5,000, Deduct	-49.24	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	495.48	
For Vinlyester Resin, Add	319.52	
For Epoxy Resin, Add	37.66	
For Up To >10, Add	345.29	
For >10 To 25, Add	211.67	
For >25 To 50, Add	149.82	
For >50 To 100, Add	74.91	
For >500 To 1,000, Deduct	-12.06	
For >1,000 To 2,000, Deduct	-23.14	
For >2,000 To 5,000, Deduct	-35.19	
For >5,000, Deduct	-57.35	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	568.46	
For Vinlyester Resin, Add	366.02	
For Epoxy Resin, Add	43.14	
For Up To >10, Add	398.18	
For >10 To 25, Add	244.67	
For >25 To 50, Add	172.95	
For >50 To 100, Add	86.47	
For >500 To 1,000, Deduct	-13.88	
For >1,000 To 2,000, Deduct	-26.61	
For >2,000 To 5,000, Deduct	-40.49	
For >5,000, Deduct	-65.96	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	643.93	
For Vinlyester Resin, Add	412.51	
For Epoxy Resin, Add	48.62	
For Up To >10, Add	458.54	
For >10 To 25, Add	283.90	
For >25 To 50, Add	199.81	
For >50 To 100, Add	99.90	
For >500 To 1,000, Deduct	-15.88	
For >1,000 To 2,000, Deduct	-30.40	
For >2,000 To 5,000, Deduct	-46.28	
For >5,000, Deduct	-75.32	
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	726.69	
For Vinlyester Resin, Add	459.00	
For Epoxy Resin, Add	54.10	
For Up To >10, Add	540.77	
For >10 To 25, Add	341.36	
For >25 To 50, Add	237.60	
For >50 To 100, Add	118.80	
For >500 To 1,000, Deduct	-18.44	
For >1,000 To 2,000, Deduct	-35.10	
For >2,000 To 5,000, Deduct	-53.54	
For >5,000, Deduct	-86.86	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	818.93	
For Vinlyester Resin, Add	505.51	
For Epoxy Resin, Add	59.58	
For Up To >10, Add	651.42	
For >10 To 25, Add	422.49	
For >25 To 50, Add	289.60	
For >50 To 100, Add	144.80	
For >500 To 1,000, Deduct	-21.70	
For >1,000 To 2,000, Deduct	-40.98	
For >2,000 To 5,000, Deduct	-62.69	
For >5,000, Deduct	-101.25	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	918.65	
For Vinlyester Resin, Add	552.00	
For Epoxy Resin, Add	65.06	
For Up To >10, Add	784.53	
For >10 To 25, Add	522.34	
For >25 To 50, Add	352.83	
For >50 To 100, Add	176.42	
For >500 To 1,000, Deduct	-25.53	
For >1,000 To 2,000, Deduct	-47.80	
For >2,000 To 5,000, Deduct	-73.33	
For >5,000, Deduct	-117.88	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	226.80	
For Vinylster Resin, Add	143.32	
For Epoxy Resin, Add	16.89	
For Up To >10, Add	168.55	
For >10 To 25, Add	106.34	
For >25 To 50, Add	74.04	
For >50 To 100, Add	37.02	
For >500 To 1,000, Deduct	-5.75	
For >1,000 To 2,000, Deduct	-10.95	
For >2,000 To 5,000, Deduct	-16.70	
For >5,000, Deduct	-27.09	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	264.43	
For Vinylster Resin, Add	168.35	
For Epoxy Resin, Add	19.84	
For Up To >10, Add	192.04	
For >10 To 25, Add	119.95	
For >25 To 50, Add	84.00	
For >50 To 100, Add	42.00	
For >500 To 1,000, Deduct	-6.60	
For >1,000 To 2,000, Deduct	-12.61	
For >2,000 To 5,000, Deduct	-19.22	
For >5,000, Deduct	-31.23	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	302.39	
For Vinylster Resin, Add	193.39	
For Epoxy Resin, Add	22.79	
For Up To >10, Add	216.50	
For >10 To 25, Add	134.37	
For >25 To 50, Add	94.43	
For >50 To 100, Add	47.22	
For >500 To 1,000, Deduct	-7.48	
For >1,000 To 2,000, Deduct	-14.32	
For >2,000 To 5,000, Deduct	-21.80	
For >5,000, Deduct	-35.46	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	340.76	
For Vinylster Resin, Add	218.43	
For Epoxy Resin, Add	25.74	
For Up To >10, Add	242.18	
For >10 To 25, Add	149.81	
For >25 To 50, Add	105.49	
For >50 To 100, Add	52.74	
For >500 To 1,000, Deduct	-8.39	
For >1,000 To 2,000, Deduct	-16.07	
For >2,000 To 5,000, Deduct	-24.47	
For >5,000, Deduct	-39.82	
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	379.64	
For Vinylster Resin, Add	243.46	
For Epoxy Resin, Add	28.69	
For Up To >10, Add	269.42	
For >10 To 25, Add	166.55	
For >25 To 50, Add	117.32	
For >50 To 100, Add	58.66	
For >500 To 1,000, Deduct	-9.34	
For >1,000 To 2,000, Deduct	-17.89	
For >2,000 To 5,000, Deduct	-27.24	
For >5,000, Deduct	-44.33	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	455.23	
For Vinylster Resin, Add	293.53	
For Epoxy Resin, Add	34.59	
For Up To >10, Add	317.37	
For >10 To 25, Add	194.58	
For >25 To 50, Add	137.72	
For >50 To 100, Add	68.86	
For >500 To 1,000, Deduct	-11.08	
For >1,000 To 2,000, Deduct	-21.26	
For >2,000 To 5,000, Deduct	-32.34	
For >5,000, Deduct	-52.70	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	531.87	
For Vinylster Resin, Add	343.61	
For Epoxy Resin, Add	40.50	
For Up To >10, Add	368.44	
For >10 To 25, Add	225.22	
For >25 To 50, Add	159.67	
For >50 To 100, Add	79.84	
For >500 To 1,000, Deduct	-12.89	
For >1,000 To 2,000, Deduct	-24.76	
For >2,000 To 5,000, Deduct	-37.65	
For >5,000, Deduct	-61.39	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 01 30 72-0128	LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	610.17
	For Vinlyester Resin, Add	393.68
	For Epoxy Resin, Add	46.40
	For Up To >10, Add	424.51
	For >10 To 25, Add	260.03
	For >25 To 50, Add	184.14
	For >50 To 100, Add	92.07
	For >500 To 1,000, Deduct	-14.83
	For >1,000 To 2,000, Deduct	-28.47
	For >2,000 To 5,000, Deduct	-43.30
	For >5,000, Deduct	-70.57
33 01 30 72-0129	LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	691.27
	For Vinlyester Resin, Add	443.75
	For Epoxy Resin, Add	52.30
	For Up To >10, Add	488.99
	For >10 To 25, Add	301.83
	For >25 To 50, Add	212.80
	For >50 To 100, Add	106.40
	For >500 To 1,000, Deduct	-16.98
	For >1,000 To 2,000, Deduct	-32.52
	For >2,000 To 5,000, Deduct	-49.50
	For >5,000, Deduct	-80.60
33 01 30 72-0130	LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	779.96
	For Vinlyester Resin, Add	493.82
	For Epoxy Resin, Add	58.20
	For Up To >10, Add	576.23
	For >10 To 25, Add	362.62
	For >25 To 50, Add	252.84
	For >50 To 100, Add	126.42
	For >500 To 1,000, Deduct	-19.70
	For >1,000 To 2,000, Deduct	-37.53
	For >2,000 To 5,000, Deduct	-57.23
	For >5,000, Deduct	-92.90
33 01 30 72-0131	LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	878.57
	For Vinlyester Resin, Add	543.90
	For Epoxy Resin, Add	64.10
	For Up To >10, Add	693.21
	For >10 To 25, Add	448.18
	For >25 To 50, Add	307.76
	For >50 To 100, Add	153.88
	For >500 To 1,000, Deduct	-23.16
	For >1,000 To 2,000, Deduct	-43.78
	For >2,000 To 5,000, Deduct	-66.93
	For >5,000, Deduct	-108.17
33 01 30 72-0132	LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	985.17
	For Vinlyester Resin, Add	593.97
	For Epoxy Resin, Add	70.00
	For Up To >10, Add	834.19
	For >10 To 25, Add	553.73
	For >25 To 50, Add	374.67
	For >50 To 100, Add	187.33
	For >500 To 1,000, Deduct	-27.22
	For >1,000 To 2,000, Deduct	-51.02
	For >2,000 To 5,000, Deduct	-78.24
	For >5,000, Deduct	-125.85

**33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)**

33 01 30 72-0134	LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	240.67
	For Vinlyester Resin, Add	153.03
	For Epoxy Resin, Add	18.04
	For Up To >10, Add	175.49
	For >10 To 25, Add	109.80
	For >25 To 50, Add	76.81
	For >50 To 100, Add	38.41
	For >500 To 1,000, Deduct	-6.03
	For >1,000 To 2,000, Deduct	-11.50
	For >2,000 To 5,000, Deduct	-17.53
	For >5,000, Deduct	-28.48
33 01 30 72-0135	LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	280.86
	For Vinlyester Resin, Add	179.85
	For Epoxy Resin, Add	21.20
	For Up To >10, Add	200.26
	For >10 To 25, Add	124.06
	For >25 To 50, Add	87.28
	For >50 To 100, Add	43.64
	For >500 To 1,000, Deduct	-6.93
	For >1,000 To 2,000, Deduct	-13.27
	For >2,000 To 5,000, Deduct	-20.20
	For >5,000, Deduct	-32.87





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	321.37	
For Vinlyester Resin, Add	206.68	
For Epoxy Resin, Add	24.36	
For Up To >10, Add	225.99	
For >10 To 25, Add	139.11	
For >25 To 50, Add	98.23	
For >50 To 100, Add	49.12	
For >500 To 1,000, Deduct	-7.86	
For >1,000 To 2,000, Deduct	-15.08	
For >2,000 To 5,000, Deduct	-22.94	
For >5,000, Deduct	-37.36	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	362.29	
For Vinlyester Resin, Add	233.50	
For Epoxy Resin, Add	27.52	
For Up To >10, Add	252.95	
For >10 To 25, Add	155.19	
For >25 To 50, Add	109.79	
For >50 To 100, Add	54.90	
For >500 To 1,000, Deduct	-8.83	
For >1,000 To 2,000, Deduct	-16.93	
For >2,000 To 5,000, Deduct	-25.76	
For >5,000, Deduct	-41.97	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	403.73	
For Vinlyester Resin, Add	260.32	
For Epoxy Resin, Add	30.68	
For Up To >10, Add	281.47	
For >10 To 25, Add	172.57	
For >25 To 50, Add	122.14	
For >50 To 100, Add	61.07	
For >500 To 1,000, Deduct	-9.83	
For >1,000 To 2,000, Deduct	-18.86	
For >2,000 To 5,000, Deduct	-28.68	
For >5,000, Deduct	-46.74	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	484.43	
For Vinlyester Resin, Add	313.97	
For Epoxy Resin, Add	37.00	
For Up To >10, Add	331.97	
For >10 To 25, Add	201.88	
For >25 To 50, Add	143.56	
For >50 To 100, Add	71.78	
For >500 To 1,000, Deduct	-11.66	
For >1,000 To 2,000, Deduct	-22.43	
For >2,000 To 5,000, Deduct	-34.09	
For >5,000, Deduct	-55.62	
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	566.17	
For Vinlyester Resin, Add	367.62	
For Epoxy Resin, Add	43.33	
For Up To >10, Add	385.59	
For >10 To 25, Add	233.79	
For >25 To 50, Add	166.53	
For >50 To 100, Add	83.27	
For >500 To 1,000, Deduct	-13.58	
For >1,000 To 2,000, Deduct	-26.13	
For >2,000 To 5,000, Deduct	-39.71	
For >5,000, Deduct	-64.82	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	649.58	
For Vinlyester Resin, Add	421.27	
For Epoxy Resin, Add	49.65	
For Up To >10, Add	444.22	
For >10 To 25, Add	269.88	
For >25 To 50, Add	192.02	
For >50 To 100, Add	96.01	
For >500 To 1,000, Deduct	-15.62	
For >1,000 To 2,000, Deduct	-30.04	
For >2,000 To 5,000, Deduct	-45.66	
For >5,000, Deduct	-74.51	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	735.80	
For Vinlyester Resin, Add	474.92	
For Epoxy Resin, Add	55.97	
For Up To >10, Add	511.25	
For >10 To 25, Add	312.97	
For >25 To 50, Add	221.70	
For >50 To 100, Add	110.85	
For >500 To 1,000, Deduct	-17.87	
For >1,000 To 2,000, Deduct	-34.31	
For >2,000 To 5,000, Deduct	-52.18	
For >5,000, Deduct	-85.05	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	829.60	
For Vinlyester Resin, Add	528.57	
For Epoxy Resin, Add	62.30	
For Up To >10, Add	601.05	
For >10 To 25, Add	375.03	
For >25 To 50, Add	262.77	
For >50 To 100, Add	131.39	
For >500 To 1,000, Deduct	-20.69	
For >1,000 To 2,000, Deduct	-39.52	
For >2,000 To 5,000, Deduct	-60.21	
For >5,000, Deduct	-97.86	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	933.31	
For Vinlyester Resin, Add	582.22	
For Epoxy Resin, Add	68.62	
For Up To >10, Add	720.58	
For >10 To 25, Add	461.86	
For >25 To 50, Add	318.70	
For >50 To 100, Add	159.35	
For >500 To 1,000, Deduct	-24.25	
For >1,000 To 2,000, Deduct	-45.97	
For >2,000 To 5,000, Deduct	-70.22	
For >5,000, Deduct	-113.65	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,045.02	
For Vinlyester Resin, Add	635.87	
For Epoxy Resin, Add	74.94	
For Up To >10, Add	864.11	
For >10 To 25, Add	568.70	
For >25 To 50, Add	386.64	
For >50 To 100, Add	193.32	
For >500 To 1,000, Deduct	-28.42	
For >1,000 To 2,000, Deduct	-53.42	
For >2,000 To 5,000, Deduct	-81.83	
For >5,000, Deduct	-131.83	
<b>33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	255.58	
For Vinlyester Resin, Add	162.67	
For Epoxy Resin, Add	19.17	
For Up To >10, Add	185.79	
For >10 To 25, Add	116.10	
For >25 To 50, Add	81.28	
For >50 To 100, Add	40.64	
For >500 To 1,000, Deduct	-6.39	
For >1,000 To 2,000, Deduct	-12.20	
For >2,000 To 5,000, Deduct	-18.58	
For >5,000, Deduct	-30.20	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	298.33	
For Vinlyester Resin, Add	191.28	
For Epoxy Resin, Add	22.54	
For Up To >10, Add	211.87	
For >10 To 25, Add	131.01	
For >25 To 50, Add	92.27	
For >50 To 100, Add	46.14	
For >500 To 1,000, Deduct	-7.35	
For >1,000 To 2,000, Deduct	-14.07	
For >2,000 To 5,000, Deduct	-21.41	
For >5,000, Deduct	-34.85	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	341.50	
For Vinlyester Resin, Add	219.89	
For Epoxy Resin, Add	25.92	
For Up To >10, Add	239.18	
For >10 To 25, Add	146.96	
For >25 To 50, Add	103.88	
For >50 To 100, Add	51.94	
For >500 To 1,000, Deduct	-8.34	
For >1,000 To 2,000, Deduct	-15.99	
For >2,000 To 5,000, Deduct	-24.32	
For >5,000, Deduct	-39.62	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	385.07	
For Vinlyester Resin, Add	248.50	
For Epoxy Resin, Add	29.29	
For Up To >10, Add	267.71	
For >10 To 25, Add	163.93	
For >25 To 50, Add	116.11	
For >50 To 100, Add	58.05	
For >500 To 1,000, Deduct	-9.36	
For >1,000 To 2,000, Deduct	-17.96	
For >2,000 To 5,000, Deduct	-27.31	
For >5,000, Deduct	-44.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	429.39	
For Vinlyester Resin, Add	277.12	
For Epoxy Resin, Add	32.66	
For Up To >10, Add	298.47	
For >10 To 25, Add	182.75	
For >25 To 50, Add	129.44	
For >50 To 100, Add	64.72	
For >500 To 1,000, Deduct	-10.43	
For >1,000 To 2,000, Deduct	-20.02	
For >2,000 To 5,000, Deduct	-30.45	
For >5,000, Deduct	-49.64	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	515.30	
For Vinlyester Resin, Add	334.34	
For Epoxy Resin, Add	39.40	
For Up To >10, Add	351.83	
For >10 To 25, Add	213.58	
For >25 To 50, Add	152.03	
For >50 To 100, Add	76.02	
For >500 To 1,000, Deduct	-12.38	
For >1,000 To 2,000, Deduct	-23.81	
For >2,000 To 5,000, Deduct	-36.19	
For >5,000, Deduct	-59.06	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	625.06	
For Vinlyester Resin, Add	407.46	
For Epoxy Resin, Add	48.02	
For Up To >10, Add	419.98	
For >10 To 25, Add	252.97	
For >25 To 50, Add	180.89	
For >50 To 100, Add	90.44	
For >500 To 1,000, Deduct	-14.87	
For >1,000 To 2,000, Deduct	-28.66	
For >2,000 To 5,000, Deduct	-43.52	
For >5,000, Deduct	-71.10	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	691.28	
For Vinlyester Resin, Add	448.79	
For Epoxy Resin, Add	52.89	
For Up To >10, Add	471.02	
For >10 To 25, Add	285.66	
For >25 To 50, Add	203.45	
For >50 To 100, Add	101.73	
For >500 To 1,000, Deduct	-16.58	
For >1,000 To 2,000, Deduct	-31.91	
For >2,000 To 5,000, Deduct	-48.50	
For >5,000, Deduct	-79.16	
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	783.13	
For Vinlyester Resin, Add	506.02	
For Epoxy Resin, Add	59.64	
For Up To >10, Add	542.19	
For >10 To 25, Add	331.35	
For >25 To 50, Add	234.95	
For >50 To 100, Add	117.48	
For >500 To 1,000, Deduct	-18.98	
For >1,000 To 2,000, Deduct	-36.45	
For >2,000 To 5,000, Deduct	-55.42	
For >5,000, Deduct	-90.36	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	882.89	
For Vinlyester Resin, Add	563.24	
For Epoxy Resin, Add	66.38	
For Up To >10, Add	637.10	
For >10 To 25, Add	396.81	
For >25 To 50, Add	278.32	
For >50 To 100, Add	139.16	
For >500 To 1,000, Deduct	-21.96	
For >1,000 To 2,000, Deduct	-41.97	
For >2,000 To 5,000, Deduct	-63.93	
For >5,000, Deduct	-103.94	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	993.04	
For Vinlyester Resin, Add	620.47	
For Epoxy Resin, Add	73.13	
For Up To >10, Add	763.17	
For >10 To 25, Add	488.25	
For >25 To 50, Add	337.27	
For >50 To 100, Add	168.63	
For >500 To 1,000, Deduct	-25.73	
For >1,000 To 2,000, Deduct	-48.79	
For >2,000 To 5,000, Deduct	-74.51	
For >5,000, Deduct	-120.64	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,111.53	
For Vinlyester Resin, Add	677.69	
For Epoxy Resin, Add	79.87	
For Up To >10, Add	914.27	
For >10 To 25, Add	600.53	
For >25 To 50, Add	408.73	
For >50 To 100, Add	204.36	
For >500 To 1,000, Deduct	-30.12	
For >1,000 To 2,000, Deduct	-56.65	
For >2,000 To 5,000, Deduct	-86.77	
For >5,000, Deduct	-139.83	
<b>33 01 30 72-0159 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b> .....	<b>314.56</b>	
33 01 30 72-0160 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	314.56	
For Vinlyester Resin, Add	202.64	
For Epoxy Resin, Add	23.88	
For Up To >10, Add	219.98	
For >10 To 25, Add	135.07	
For >25 To 50, Add	95.52	
For >50 To 100, Add	47.76	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,000, Deduct	-14.71	
For >2,000 To 5,000, Deduct	-22.38	
For >5,000, Deduct	-36.47	
33 01 30 72-0161 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	360.28	
For Vinlyester Resin, Add	233.04	
For Epoxy Resin, Add	27.47	
For Up To >10, Add	248.57	
For >10 To 25, Add	151.65	
For >25 To 50, Add	107.64	
For >50 To 100, Add	53.82	
For >500 To 1,000, Deduct	-8.71	
For >1,000 To 2,000, Deduct	-16.74	
For >2,000 To 5,000, Deduct	-25.45	
For >5,000, Deduct	-41.50	
33 01 30 72-0162 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	406.41	
For Vinlyester Resin, Add	263.44	
For Epoxy Resin, Add	31.05	
For Up To >10, Add	278.38	
For >10 To 25, Add	169.26	
For >25 To 50, Add	120.37	
For >50 To 100, Add	60.19	
For >500 To 1,000, Deduct	-9.78	
For >1,000 To 2,000, Deduct	-18.81	
For >2,000 To 5,000, Deduct	-28.59	
For >5,000, Deduct	-46.66	
33 01 30 72-0163 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	453.28	
For Vinlyester Resin, Add	293.84	
For Epoxy Resin, Add	34.63	
For Up To >10, Add	310.42	
For >10 To 25, Add	188.72	
For >25 To 50, Add	134.22	
For >50 To 100, Add	67.11	
For >500 To 1,000, Deduct	-10.91	
For >1,000 To 2,000, Deduct	-20.98	
For >2,000 To 5,000, Deduct	-31.89	
For >5,000, Deduct	-52.03	
33 01 30 72-0164 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	544.30	
For Vinlyester Resin, Add	354.64	
For Epoxy Resin, Add	41.80	
For Up To >10, Add	366.33	
For >10 To 25, Add	220.83	
For >25 To 50, Add	157.83	
For >50 To 100, Add	78.92	
For >500 To 1,000, Deduct	-12.96	
For >1,000 To 2,000, Deduct	-24.97	
For >2,000 To 5,000, Deduct	-37.93	
For >5,000, Deduct	-61.96	
33 01 30 72-0165 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	636.47	
For Vinlyester Resin, Add	415.44	
For Epoxy Resin, Add	48.96	
For Up To >10, Add	425.69	
For >10 To 25, Add	255.82	
For >25 To 50, Add	183.17	
For >50 To 100, Add	91.58	
For >500 To 1,000, Deduct	-15.09	
For >1,000 To 2,000, Deduct	-29.11	
For >2,000 To 5,000, Deduct	-44.21	
For >5,000, Deduct	-72.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0166 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	730.50	
For Vinlyester Resin, Add	476.25	
For Epoxy Resin, Add	56.13	
For Up To >10, Add	490.63	
For >10 To 25, Add	295.46	
For >25 To 50, Add	211.30	
For >50 To 100, Add	105.65	
For >500 To 1,000, Deduct	-17.37	
For >1,000 To 2,000, Deduct	-33.48	
For >2,000 To 5,000, Deduct	-50.85	
For >5,000, Deduct	-83.08	
33 01 30 72-0167 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	827.46	
For Vinlyester Resin, Add	537.05	
For Epoxy Resin, Add	63.29	
For Up To >10, Add	564.36	
For >10 To 25, Add	342.43	
For >25 To 50, Add	243.82	
For >50 To 100, Add	121.91	
For >500 To 1,000, Deduct	-19.86	
For >1,000 To 2,000, Deduct	-38.22	
For >2,000 To 5,000, Deduct	-58.08	
For >5,000, Deduct	-94.80	
33 01 30 72-0168 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	932.33	
For Vinlyester Resin, Add	597.85	
For Epoxy Resin, Add	70.46	
For Up To >10, Add	661.82	
For >10 To 25, Add	409.17	
For >25 To 50, Add	288.20	
For >50 To 100, Add	144.10	
For >500 To 1,000, Deduct	-22.95	
For >1,000 To 2,000, Deduct	-43.95	
For >2,000 To 5,000, Deduct	-66.90	
For >5,000, Deduct	-108.89	
33 01 30 72-0169 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,047.59	
For Vinlyester Resin, Add	658.65	
For Epoxy Resin, Add	77.63	
For Up To >10, Add	790.45	
For >10 To 25, Add	501.88	
For >25 To 50, Add	348.18	
For >50 To 100, Add	174.09	
For >500 To 1,000, Deduct	-26.82	
For >1,000 To 2,000, Deduct	-50.97	
For >2,000 To 5,000, Deduct	-77.79	
For >5,000, Deduct	-126.09	
33 01 30 72-0170 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,171.19	
For Vinlyester Resin, Add	719.45	
For Epoxy Resin, Add	84.79	
For Up To >10, Add	944.10	
For >10 To 25, Add	615.45	
For >25 To 50, Add	420.66	
For >50 To 100, Add	210.33	
For >500 To 1,000, Deduct	-31.31	
For >1,000 To 2,000, Deduct	-59.04	
For >2,000 To 5,000, Deduct	-90.35	
For >5,000, Deduct	-145.80	
<b>33 01 30 72-0171 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0172 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	331.93	
For Vinlyester Resin, Add	213.92	
For Epoxy Resin, Add	25.21	
For Up To >10, Add	231.79	
For >10 To 25, Add	142.23	
For >25 To 50, Add	100.62	
For >50 To 100, Add	50.31	
For >500 To 1,000, Deduct	-8.09	
For >1,000 To 2,000, Deduct	-15.52	
For >2,000 To 5,000, Deduct	-23.60	
For >5,000, Deduct	-38.46	
33 01 30 72-0173 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	380.30	
For Vinlyester Resin, Add	246.11	
For Epoxy Resin, Add	29.01	
For Up To >10, Add	261.95	
For >10 To 25, Add	159.70	
For >25 To 50, Add	113.40	
For >50 To 100, Add	56.70	
For >500 To 1,000, Deduct	-9.19	
For >1,000 To 2,000, Deduct	-17.65	
For >2,000 To 5,000, Deduct	-26.84	
For >5,000, Deduct	-43.77	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0174 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	429.20	
For Vinlyester Resin, Add	278.30	
For Epoxy Resin, Add	32.80	
For Up To >10, Add	293.68	
For >10 To 25, Add	178.47	
For >25 To 50, Add	126.96	
For >50 To 100, Add	63.48	
For >500 To 1,000, Deduct	-10.32	
For >1,000 To 2,000, Deduct	-19.86	
For >2,000 To 5,000, Deduct	-30.18	
For >5,000, Deduct	-49.25	
33 01 30 72-0175 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	478.72	
For Vinlyester Resin, Add	310.49	
For Epoxy Resin, Add	36.59	
For Up To >10, Add	327.29	
For >10 To 25, Add	198.81	
For >25 To 50, Add	141.47	
For >50 To 100, Add	70.73	
For >500 To 1,000, Deduct	-11.51	
For >1,000 To 2,000, Deduct	-22.14	
For >2,000 To 5,000, Deduct	-33.65	
For >5,000, Deduct	-54.91	
33 01 30 72-0176 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	575.06	
For Vinlyester Resin, Add	374.86	
For Epoxy Resin, Add	44.18	
For Up To >10, Add	386.38	
For >10 To 25, Add	232.73	
For >25 To 50, Add	166.41	
For >50 To 100, Add	83.21	
For >500 To 1,000, Deduct	-13.68	
For >1,000 To 2,000, Deduct	-26.36	
For >2,000 To 5,000, Deduct	-40.04	
For >5,000, Deduct	-65.41	
33 01 30 72-0177 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	672.66	
For Vinlyester Resin, Add	439.24	
For Epoxy Resin, Add	51.77	
For Up To >10, Add	449.26	
For >10 To 25, Add	269.80	
For >25 To 50, Add	193.25	
For >50 To 100, Add	96.63	
For >500 To 1,000, Deduct	-15.94	
For >1,000 To 2,000, Deduct	-30.75	
For >2,000 To 5,000, Deduct	-46.68	
For >5,000, Deduct	-76.30	
33 01 30 72-0178 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	772.12	
For Vinlyester Resin, Add	503.62	
For Epoxy Resin, Add	59.36	
For Up To >10, Add	517.71	
For >10 To 25, Add	311.52	
For >25 To 50, Add	222.88	
For >50 To 100, Add	111.44	
For >500 To 1,000, Deduct	-18.34	
For >1,000 To 2,000, Deduct	-35.36	
For >2,000 To 5,000, Deduct	-53.70	
For >5,000, Deduct	-87.74	
33 01 30 72-0179 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	874.49	
For Vinlyester Resin, Add	568.00	
For Epoxy Resin, Add	66.94	
For Up To >10, Add	594.90	
For >10 To 25, Add	360.51	
For >25 To 50, Add	256.88	
For >50 To 100, Add	128.44	
For >500 To 1,000, Deduct	-20.96	
For >1,000 To 2,000, Deduct	-40.34	
For >2,000 To 5,000, Deduct	-61.30	
For >5,000, Deduct	-100.06	
33 01 30 72-0180 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	985.51	
For Vinlyester Resin, Add	632.38	
For Epoxy Resin, Add	74.53	
For Up To >10, Add	698.03	
For >10 To 25, Add	431.13	
For >25 To 50, Add	303.85	
For >50 To 100, Add	151.92	
For >500 To 1,000, Deduct	-24.23	
For >1,000 To 2,000, Deduct	-46.40	
For >2,000 To 5,000, Deduct	-70.63	
For >5,000, Deduct	-114.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0181 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,107.34	
For Vinlyester Resin, Add	696.76	
For Epoxy Resin, Add	82.12	
For Up To >10, Add	833.60	
For >10 To 25, Add	528.77	
For >25 To 50, Add	367.03	
For >50 To 100, Add	183.51	
For >500 To 1,000, Deduct	-28.31	
For >1,000 To 2,000, Deduct	-53.81	
For >2,000 To 5,000, Deduct	-82.12	
For >5,000, Deduct	-133.13	
33 01 30 72-0182 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,237.92	
For Vinlyester Resin, Add	761.14	
For Epoxy Resin, Add	89.71	
For Up To >10, Add	995.41	
For >10 To 25, Add	648.29	
For >25 To 50, Add	443.34	
For >50 To 100, Add	221.67	
For >500 To 1,000, Deduct	-33.04	
For >1,000 To 2,000, Deduct	-62.32	
For >2,000 To 5,000, Deduct	-95.36	
For >5,000, Deduct	-153.91	
<b>33 01 30 72-0183 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0184 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	398.88	
For Vinlyester Resin, Add	259.11	
For Epoxy Resin, Add	30.54	
For Up To >10, Add	271.24	
For >10 To 25, Add	164.34	
For >25 To 50, Add	117.11	
For >50 To 100, Add	58.56	
For >500 To 1,000, Deduct	-9.56	
For >1,000 To 2,000, Deduct	-18.40	
For >2,000 To 5,000, Deduct	-27.95	
For >5,000, Deduct	-45.63	
33 01 30 72-0185 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	450.33	
For Vinlyester Resin, Add	293.09	
For Epoxy Resin, Add	34.54	
For Up To >10, Add	304.24	
For >10 To 25, Add	183.75	
For >25 To 50, Add	131.19	
For >50 To 100, Add	65.59	
For >500 To 1,000, Deduct	-10.75	
For >1,000 To 2,000, Deduct	-20.70	
For >2,000 To 5,000, Deduct	-31.45	
For >5,000, Deduct	-51.36	
33 01 30 72-0186 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	502.41	
For Vinlyester Resin, Add	327.07	
For Epoxy Resin, Add	38.55	
For Up To >10, Add	339.13	
For >10 To 25, Add	204.74	
For >25 To 50, Add	146.20	
For >50 To 100, Add	73.10	
For >500 To 1,000, Deduct	-11.98	
For >1,000 To 2,000, Deduct	-23.09	
For >2,000 To 5,000, Deduct	-35.07	
For >5,000, Deduct	-57.28	
33 01 30 72-0187 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	634.53	
For Vinlyester Resin, Add	415.11	
For Epoxy Resin, Add	48.92	
For Up To >10, Add	421.07	
For >10 To 25, Add	252.05	
For >25 To 50, Add	180.88	
For >50 To 100, Add	90.44	
For >500 To 1,000, Deduct	-14.97	
For >1,000 To 2,000, Deduct	-28.91	
For >2,000 To 5,000, Deduct	-43.88	
For >5,000, Deduct	-71.76	
33 01 30 72-0188 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	706.57	
For Vinlyester Resin, Add	462.98	
For Epoxy Resin, Add	54.57	
For Up To >10, Add	466.21	
For >10 To 25, Add	278.28	
For >25 To 50, Add	200.04	
For >50 To 100, Add	100.02	
For >500 To 1,000, Deduct	-16.62	
For >1,000 To 2,000, Deduct	-32.10	
For >2,000 To 5,000, Deduct	-48.72	
For >5,000, Deduct	-79.69	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

33 01 30 72-0189	LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	811.14
	For Vinlyester Resin, Add	530.94
	For Epoxy Resin, Add	62.57
	For Up To >10, Add	537.22
	For >10 To 25, Add	321.27
	For >25 To 50, Add	230.69
	For >50 To 100, Add	115.34
	For >500 To 1,000, Deduct	-19.12
	For >1,000 To 2,000, Deduct	-36.92
	For >2,000 To 5,000, Deduct	-56.04
	For >5,000, Deduct	-91.65
33 01 30 72-0190	LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	918.83
	For Vinlyester Resin, Add	598.89
	For Epoxy Resin, Add	70.58
	For Up To >10, Add	617.59
	For >10 To 25, Add	372.07
	For >25 To 50, Add	266.02
	For >50 To 100, Add	133.01
	For >500 To 1,000, Deduct	-21.86
	For >1,000 To 2,000, Deduct	-42.13
	For >2,000 To 5,000, Deduct	-63.99
	For >5,000, Deduct	-104.54
33 01 30 72-0191	LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,034.75
	For Vinlyester Resin, Add	666.85
	For Epoxy Resin, Add	78.59
	For Up To >10, Add	722.65
	For >10 To 25, Add	443.44
	For >25 To 50, Add	313.69
	For >50 To 100, Add	156.85
	For >500 To 1,000, Deduct	-25.21
	For >1,000 To 2,000, Deduct	-48.37
	For >2,000 To 5,000, Deduct	-73.58
	For >5,000, Deduct	-119.90
33 01 30 72-0192	LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,161.68
	For Vinlyester Resin, Add	734.80
	For Epoxy Resin, Add	86.60
	For Up To >10, Add	860.77
	For >10 To 25, Add	542.35
	For >25 To 50, Add	377.90
	For >50 To 100, Add	188.95
	For >500 To 1,000, Deduct	-29.39
	For >1,000 To 2,000, Deduct	-55.98
	For >2,000 To 5,000, Deduct	-85.38
	For >5,000, Deduct	-138.56
33 01 30 72-0193	LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,297.37
	For Vinlyester Resin, Add	802.75
	For Epoxy Resin, Add	94.61
	For Up To >10, Add	1,025.14
	For >10 To 25, Add	663.15
	For >25 To 50, Add	455.23
	For >50 To 100, Add	227.61
	For >500 To 1,000, Deduct	-34.23
	For >1,000 To 2,000, Deduct	-64.69
	For >2,000 To 5,000, Deduct	-98.92
	For >5,000, Deduct	-159.85

**33 01 30 72-0194 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)**

33 01 30 72-0195	LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	418.82
	For Vinlyester Resin, Add	272.05
	For Epoxy Resin, Add	32.06
	For Up To >10, Add	284.86
	For >10 To 25, Add	172.61
	For >25 To 50, Add	123.00
	For >50 To 100, Add	61.50
	For >500 To 1,000, Deduct	-10.04
	For >1,000 To 2,000, Deduct	-19.32
	For >2,000 To 5,000, Deduct	-29.35
	For >5,000, Deduct	-47.92
33 01 30 72-0196	LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	472.93
	For Vinlyester Resin, Add	307.81
	For Epoxy Resin, Add	36.28
	For Up To >10, Add	319.47
	For >10 To 25, Add	192.93
	For >25 To 50, Add	137.75
	For >50 To 100, Add	68.87
	For >500 To 1,000, Deduct	-11.28
	For >1,000 To 2,000, Deduct	-21.74
	For >2,000 To 5,000, Deduct	-33.02
	For >5,000, Deduct	-53.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0197 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	527.76	
For Vinlyester Resin, Add	343.57	
For Epoxy Resin, Add	40.49	
For Up To >10, Add	356.23	
For >10 To 25, Add	215.06	
For >25 To 50, Add	153.57	
For >50 To 100, Add	76.79	
For >500 To 1,000, Deduct	-12.59	
For >1,000 To 2,000, Deduct	-24.25	
For >2,000 To 5,000, Deduct	-36.84	
For >5,000, Deduct	-60.16	
33 01 30 72-0198 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	634.53	
For Vinlyester Resin, Add	415.11	
For Epoxy Resin, Add	48.92	
For Up To >10, Add	421.07	
For >10 To 25, Add	252.05	
For >25 To 50, Add	180.88	
For >50 To 100, Add	90.44	
For >500 To 1,000, Deduct	-14.97	
For >1,000 To 2,000, Deduct	-28.91	
For >2,000 To 5,000, Deduct	-43.88	
For >5,000, Deduct	-71.76	
33 01 30 72-0199 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	742.65	
For Vinlyester Resin, Add	486.64	
For Epoxy Resin, Add	57.35	
For Up To >10, Add	489.95	
For >10 To 25, Add	292.43	
For >25 To 50, Add	210.22	
For >50 To 100, Add	105.11	
For >500 To 1,000, Deduct	-17.46	
For >1,000 To 2,000, Deduct	-33.74	
For >2,000 To 5,000, Deduct	-51.20	
For >5,000, Deduct	-83.76	
33 01 30 72-0200 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	852.75	
For Vinlyester Resin, Add	558.17	
For Epoxy Resin, Add	65.78	
For Up To >10, Add	564.78	
For >10 To 25, Add	337.75	
For >25 To 50, Add	242.52	
For >50 To 100, Add	121.26	
For >500 To 1,000, Deduct	-20.10	
For >1,000 To 2,000, Deduct	-38.82	
For >2,000 To 5,000, Deduct	-58.92	
For >5,000, Deduct	-96.35	
33 01 30 72-0201 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	965.97	
For Vinlyester Resin, Add	629.71	
For Epoxy Resin, Add	74.22	
For Up To >10, Add	648.96	
For >10 To 25, Add	390.87	
For >25 To 50, Add	279.50	
For >50 To 100, Add	139.75	
For >500 To 1,000, Deduct	-22.97	
For >1,000 To 2,000, Deduct	-44.28	
For >2,000 To 5,000, Deduct	-67.25	
For >5,000, Deduct	-109.88	
33 01 30 72-0202 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,088.03	
For Vinlyester Resin, Add	701.24	
For Epoxy Resin, Add	82.65	
For Up To >10, Add	759.67	
For >10 To 25, Add	466.09	
For >25 To 50, Add	329.74	
For >50 To 100, Add	164.87	
For >500 To 1,000, Deduct	-26.50	
For >1,000 To 2,000, Deduct	-50.85	
For >2,000 To 5,000, Deduct	-77.36	
For >5,000, Deduct	-126.06	
33 01 30 72-0203 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,221.55	
For Vinlyester Resin, Add	772.77	
For Epoxy Resin, Add	91.08	
For Up To >10, Add	904.75	
For >10 To 25, Add	569.97	
For >25 To 50, Add	397.18	
For >50 To 100, Add	198.59	
For >500 To 1,000, Deduct	-30.90	
For >1,000 To 2,000, Deduct	-58.86	
For >2,000 To 5,000, Deduct	-89.76	
For >5,000, Deduct	-145.67	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0204 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,364.22	
For Vinlyester Resin, Add	844.30	
For Epoxy Resin, Add	99.51	
For Up To >10, Add	1,077.31	
For >10 To 25, Add	696.74	
For >25 To 50, Add	478.35	
For >50 To 100, Add	239.17	
For >500 To 1,000, Deduct	-35.98	
For >1,000 To 2,000, Deduct	-68.01	
For >2,000 To 5,000, Deduct	-103.98	
For >5,000, Deduct	-168.04	
<b>33 01 30 72-0205 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0206 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	437.19	
For Vinlyester Resin, Add	284.91	
For Epoxy Resin, Add	33.58	
For Up To >10, Add	294.05	
For >10 To 25, Add	177.20	
For >25 To 50, Add	126.67	
For >50 To 100, Add	63.34	
For >500 To 1,000, Deduct	-10.40	
For >1,000 To 2,000, Deduct	-20.05	
For >2,000 To 5,000, Deduct	-30.46	
For >5,000, Deduct	-49.76	
33 01 30 72-0207 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	493.86	
For Vinlyester Resin, Add	322.46	
For Epoxy Resin, Add	38.00	
For Up To >10, Add	329.93	
For >10 To 25, Add	198.17	
For >25 To 50, Add	141.93	
For >50 To 100, Add	70.97	
For >500 To 1,000, Deduct	-11.70	
For >1,000 To 2,000, Deduct	-22.58	
For >2,000 To 5,000, Deduct	-34.28	
For >5,000, Deduct	-56.03	
33 01 30 72-0208 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	551.25	
For Vinlyester Resin, Add	360.02	
For Epoxy Resin, Add	42.43	
For Up To >10, Add	367.98	
For >10 To 25, Add	220.93	
For >25 To 50, Add	158.27	
For >50 To 100, Add	79.14	
For >500 To 1,000, Deduct	-13.06	
For >1,000 To 2,000, Deduct	-25.19	
For >2,000 To 5,000, Deduct	-38.25	
For >5,000, Deduct	-62.51	
33 01 30 72-0209 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	663.13	
For Vinlyester Resin, Add	435.13	
For Epoxy Resin, Add	51.28	
For Up To >10, Add	435.37	
For >10 To 25, Add	259.20	
For >25 To 50, Add	186.60	
For >50 To 100, Add	93.30	
For >500 To 1,000, Deduct	-15.55	
For >1,000 To 2,000, Deduct	-30.05	
For >2,000 To 5,000, Deduct	-45.60	
For >5,000, Deduct	-74.62	
33 01 30 72-0210 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	776.36	
For Vinlyester Resin, Add	510.24	
For Epoxy Resin, Add	60.14	
For Up To >10, Add	506.81	
For >10 To 25, Add	300.85	
For >25 To 50, Add	216.96	
For >50 To 100, Add	108.48	
For >500 To 1,000, Deduct	-18.14	
For >1,000 To 2,000, Deduct	-35.09	
For >2,000 To 5,000, Deduct	-53.22	
For >5,000, Deduct	-87.13	
33 01 30 72-0211 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	891.57	
For Vinlyester Resin, Add	585.35	
For Epoxy Resin, Add	68.99	
For Up To >10, Add	584.19	
For >10 To 25, Add	347.45	
For >25 To 50, Add	250.28	
For >50 To 100, Add	125.14	
For >500 To 1,000, Deduct	-20.88	
For >1,000 To 2,000, Deduct	-40.37	
For >2,000 To 5,000, Deduct	-61.24	
For >5,000, Deduct	-100.23	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0212 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,009.89	
<i>For Vinlyester Resin, Add</i>	660.45	
<i>For Epoxy Resin, Add</i>	77.84	
<i>For Up To &gt;10, Add</i>	670.92	
<i>For &gt;10 To 25, Add</i>	401.85	
<i>For &gt;25 To 50, Add</i>	288.29	
<i>For &gt;50 To 100, Add</i>	144.14	
<i>For &gt;500 To 1,000, Deduct</i>	-23.85	
<i>For &gt;1,000 To 2,000, Deduct</i>	-46.04	
<i>For &gt;2,000 To 5,000, Deduct</i>	-69.89	
<i>For &gt;5,000, Deduct</i>	-114.27	
33 01 30 72-0213 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,137.06	
<i>For Vinlyester Resin, Add</i>	735.56	
<i>For Epoxy Resin, Add</i>	86.69	
<i>For Up To &gt;10, Add</i>	784.18	
<i>For &gt;10 To 25, Add</i>	478.35	
<i>For &gt;25 To 50, Add</i>	339.55	
<i>For &gt;50 To 100, Add</i>	169.78	
<i>For &gt;500 To 1,000, Deduct</i>	-27.49	
<i>For &gt;1,000 To 2,000, Deduct</i>	-52.81	
<i>For &gt;2,000 To 5,000, Deduct</i>	-80.30	
<i>For &gt;5,000, Deduct</i>	-130.96	
33 01 30 72-0214 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,275.69	
<i>For Vinlyester Resin, Add</i>	810.67	
<i>For Epoxy Resin, Add</i>	95.54	
<i>For Up To &gt;10, Add</i>	931.82	
<i>For &gt;10 To 25, Add</i>	583.50	
<i>For &gt;25 To 50, Add</i>	408.01	
<i>For &gt;50 To 100, Add</i>	204.00	
<i>For &gt;500 To 1,000, Deduct</i>	-31.98	
<i>For &gt;1,000 To 2,000, Deduct</i>	-61.02	
<i>For &gt;2,000 To 5,000, Deduct</i>	-93.00	
<i>For &gt;5,000, Deduct</i>	-151.09	
33 01 30 72-0215 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	12,898.47	
<i>For Vinlyester Resin, Add</i>	8,918.27	
<i>For Epoxy Resin, Add</i>	1,051.08	
<i>For Up To &gt;10, Add</i>	6,844.44	
<i>For &gt;10 To 25, Add</i>	3,580.30	
<i>For &gt;25 To 50, Add</i>	2,785.20	
<i>For &gt;50 To 100, Add</i>	1,392.60	
<i>For &gt;500 To 1,000, Deduct</i>	-266.66	
<i>For &gt;1,000 To 2,000, Deduct</i>	-529.38	
<i>For &gt;2,000 To 5,000, Deduct</i>	-796.04	
<i>For &gt;5,000, Deduct</i>	-1,321.46	
<b>33 01 30 72-0216 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0217 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	457.03	
<i>For Vinlyester Resin, Add</i>	297.70	
<i>For Epoxy Resin, Add</i>	35.09	
<i>For Up To &gt;10, Add</i>	307.87	
<i>For &gt;10 To 25, Add</i>	185.67	
<i>For &gt;25 To 50, Add</i>	132.67	
<i>For &gt;50 To 100, Add</i>	66.33	
<i>For &gt;500 To 1,000, Deduct</i>	-10.89	
<i>For &gt;1,000 To 2,000, Deduct</i>	-20.98	
<i>For &gt;2,000 To 5,000, Deduct</i>	-31.87	
<i>For &gt;5,000, Deduct</i>	-52.05	
33 01 30 72-0218 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	516.35	
<i>For Vinlyester Resin, Add</i>	337.04	
<i>For Epoxy Resin, Add</i>	39.72	
<i>For Up To &gt;10, Add</i>	345.33	
<i>For &gt;10 To 25, Add</i>	207.52	
<i>For &gt;25 To 50, Add</i>	148.59	
<i>For &gt;50 To 100, Add</i>	74.29	
<i>For &gt;500 To 1,000, Deduct</i>	-12.24	
<i>For &gt;1,000 To 2,000, Deduct</i>	-23.62	
<i>For &gt;2,000 To 5,000, Deduct</i>	-35.86	
<i>For &gt;5,000, Deduct</i>	-58.61	
33 01 30 72-0219 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	576.41	
<i>For Vinlyester Resin, Add</i>	376.39	
<i>For Epoxy Resin, Add</i>	44.36	
<i>For Up To &gt;10, Add</i>	384.98	
<i>For &gt;10 To 25, Add</i>	231.20	
<i>For &gt;25 To 50, Add</i>	165.61	
<i>For &gt;50 To 100, Add</i>	82.80	
<i>For &gt;500 To 1,000, Deduct</i>	-13.66	
<i>For &gt;1,000 To 2,000, Deduct</i>	-26.35	
<i>For &gt;2,000 To 5,000, Deduct</i>	-40.00	
<i>For &gt;5,000, Deduct</i>	-65.38	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0220 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	693.70	
For Vinlyester Resin, Add	455.07	
For Epoxy Resin, Add	53.63	
For Up To >10, Add	455.85	
For >10 To 25, Add	271.53	
For >25 To 50, Add	195.42	
For >50 To 100, Add	97.71	
For >500 To 1,000, Deduct	-16.27	
For >1,000 To 2,000, Deduct	-31.45	
For >2,000 To 5,000, Deduct	-47.73	
For >5,000, Deduct	-78.09	
33 01 30 72-0221 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	812.36	
For Vinlyester Resin, Add	533.76	
For Epoxy Resin, Add	62.91	
For Up To >10, Add	530.81	
For >10 To 25, Add	315.25	
For >25 To 50, Add	227.28	
For >50 To 100, Add	113.64	
For >500 To 1,000, Deduct	-18.99	
For >1,000 To 2,000, Deduct	-36.73	
For >2,000 To 5,000, Deduct	-55.72	
For >5,000, Deduct	-91.21	
33 01 30 72-0222 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	932.98	
For Vinlyester Resin, Add	612.44	
For Epoxy Resin, Add	72.18	
For Up To >10, Add	611.64	
For >10 To 25, Add	363.88	
For >25 To 50, Add	262.07	
For >50 To 100, Add	131.04	
For >500 To 1,000, Deduct	-21.85	
For >1,000 To 2,000, Deduct	-42.25	
For >2,000 To 5,000, Deduct	-64.11	
For >5,000, Deduct	-104.91	
33 01 30 72-0223 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,057.04	
For Vinlyester Resin, Add	691.12	
For Epoxy Resin, Add	81.45	
For Up To >10, Add	702.82	
For >10 To 25, Add	421.13	
For >25 To 50, Add	302.04	
For >50 To 100, Add	151.02	
For >500 To 1,000, Deduct	-24.98	
For >1,000 To 2,000, Deduct	-48.21	
For >2,000 To 5,000, Deduct	-73.18	
For >5,000, Deduct	-119.65	
33 01 30 72-0224 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,190.26	
For Vinlyester Resin, Add	769.81	
For Epoxy Resin, Add	90.73	
For Up To >10, Add	821.46	
For >10 To 25, Add	501.26	
For >25 To 50, Add	355.74	
For >50 To 100, Add	177.87	
For >500 To 1,000, Deduct	-28.78	
For >1,000 To 2,000, Deduct	-55.31	
For >2,000 To 5,000, Deduct	-84.09	
For >5,000, Deduct	-137.13	
33 01 30 72-0225 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,335.56	
For Vinlyester Resin, Add	848.50	
For Epoxy Resin, Add	100.00	
For Up To >10, Add	976.33	
For >10 To 25, Add	611.59	
For >25 To 50, Add	427.56	
For >50 To 100, Add	213.78	
For >500 To 1,000, Deduct	-33.50	
For >1,000 To 2,000, Deduct	-63.91	
For >2,000 To 5,000, Deduct	-97.41	
For >5,000, Deduct	-158.24	
33 01 30 72-0226 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,490.53	
For Vinlyester Resin, Add	927.19	
For Epoxy Resin, Add	109.28	
For Up To >10, Add	1,160.22	
For >10 To 25, Add	746.09	
For >25 To 50, Add	513.88	
For >50 To 100, Add	256.94	
For >500 To 1,000, Deduct	-38.94	
For >1,000 To 2,000, Deduct	-73.73	
For >2,000 To 5,000, Deduct	-112.67	
For >5,000, Deduct	-182.25	

33 01 30 72-0227 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0228 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	537.08	
For Vinlyester Resin, Add	351.55	
For Epoxy Resin, Add	41.43	
For Up To >10, Add	355.69	
For >10 To 25, Add	212.71	
For >25 To 50, Add	152.73	
For >50 To 100, Add	76.37	
For >500 To 1,000, Deduct	-12.66	
For >1,000 To 2,000, Deduct	-24.45	
For >2,000 To 5,000, Deduct	-37.11	
For >5,000, Deduct	-60.68	
33 01 30 72-0229 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	599.69	
For Vinlyester Resin, Add	392.69	
For Epoxy Resin, Add	46.28	
For Up To >10, Add	396.62	
For >10 To 25, Add	237.02	
For >25 To 50, Add	170.26	
For >50 To 100, Add	85.13	
For >500 To 1,000, Deduct	-14.12	
For >1,000 To 2,000, Deduct	-27.28	
For >2,000 To 5,000, Deduct	-41.40	
For >5,000, Deduct	-67.71	
33 01 30 72-0230 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	722.10	
For Vinlyester Resin, Add	474.95	
For Epoxy Resin, Add	55.98	
For Up To >10, Add	470.05	
For >10 To 25, Add	278.63	
For >25 To 50, Add	201.10	
For >50 To 100, Add	100.55	
For >500 To 1,000, Deduct	-16.84	
For >1,000 To 2,000, Deduct	-32.59	
For >2,000 To 5,000, Deduct	-49.43	
For >5,000, Deduct	-80.93	
33 01 30 72-0231 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	845.86	
For Vinlyester Resin, Add	557.21	
For Epoxy Resin, Add	65.67	
For Up To >10, Add	547.56	
For >10 To 25, Add	323.63	
For >25 To 50, Add	233.98	
For >50 To 100, Add	116.99	
For >500 To 1,000, Deduct	-19.66	
For >1,000 To 2,000, Deduct	-38.07	
For >2,000 To 5,000, Deduct	-57.73	
For >5,000, Deduct	-94.56	
33 01 30 72-0232 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	971.59	
For Vinlyester Resin, Add	639.47	
For Epoxy Resin, Add	75.37	
For Up To >10, Add	630.95	
For >10 To 25, Add	373.53	
For >25 To 50, Add	269.80	
For >50 To 100, Add	134.90	
For >500 To 1,000, Deduct	-22.63	
For >1,000 To 2,000, Deduct	-43.80	
For >2,000 To 5,000, Deduct	-66.42	
For >5,000, Deduct	-108.77	
33 01 30 72-0233 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,100.77	
For Vinlyester Resin, Add	721.74	
For Epoxy Resin, Add	85.06	
For Up To >10, Add	724.69	
For >10 To 25, Add	432.06	
For >25 To 50, Add	310.79	
For >50 To 100, Add	155.40	
For >500 To 1,000, Deduct	-25.85	
For >1,000 To 2,000, Deduct	-49.96	
For >2,000 To 5,000, Deduct	-75.81	
For >5,000, Deduct	-124.02	
33 01 30 72-0234 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,239.09	
For Vinlyester Resin, Add	803.99	
For Epoxy Resin, Add	94.76	
For Up To >10, Add	845.87	
For >10 To 25, Add	513.47	
For >25 To 50, Add	365.51	
For >50 To 100, Add	182.75	
For >500 To 1,000, Deduct	-29.76	
For >1,000 To 2,000, Deduct	-57.26	
For >2,000 To 5,000, Deduct	-87.02	
For >5,000, Deduct	-142.02	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0235 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,389.50	
For Vinlyester Resin, Add	886.26	
For Epoxy Resin, Add	104.45	
For Up To >10, Add	1,003.30	
For >10 To 25, Add	625.07	
For >25 To 50, Add	438.35	
For >50 To 100, Add	219.17	
For >500 To 1,000, Deduct	-34.58	
For >1,000 To 2,000, Deduct	-66.07	
For >2,000 To 5,000, Deduct	-100.65	
For >5,000, Deduct	-163.63	
33 01 30 72-0236 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,549.57	
For Vinlyester Resin, Add	968.51	
For Epoxy Resin, Add	114.15	
For Up To >10, Add	1,189.74	
For >10 To 25, Add	760.85	
For >25 To 50, Add	525.69	
For >50 To 100, Add	262.84	
For >500 To 1,000, Deduct	-40.12	
For >1,000 To 2,000, Deduct	-76.09	
For >2,000 To 5,000, Deduct	-116.21	
For >5,000, Deduct	-188.15	
<b>33 01 30 72-0237 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0238 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	559.48	
For Vinlyester Resin, Add	366.00	
For Epoxy Resin, Add	43.14	
For Up To >10, Add	371.32	
For >10 To 25, Add	222.29	
For >25 To 50, Add	159.52	
For >50 To 100, Add	79.76	
For >500 To 1,000, Deduct	-13.20	
For >1,000 To 2,000, Deduct	-25.49	
For >2,000 To 5,000, Deduct	-38.70	
For >5,000, Deduct	-63.27	
33 01 30 72-0239 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	624.85	
For Vinlyester Resin, Add	408.91	
For Epoxy Resin, Add	48.19	
For Up To >10, Add	414.15	
For >10 To 25, Add	247.77	
For >25 To 50, Add	177.87	
For >50 To 100, Add	88.93	
For >500 To 1,000, Deduct	-14.73	
For >1,000 To 2,000, Deduct	-28.45	
For >2,000 To 5,000, Deduct	-43.19	
For >5,000, Deduct	-70.62	
33 01 30 72-0240 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	752.58	
For Vinlyester Resin, Add	494.75	
For Epoxy Resin, Add	58.31	
For Up To >10, Add	490.77	
For >10 To 25, Add	291.17	
For >25 To 50, Add	210.04	
For >50 To 100, Add	105.02	
For >500 To 1,000, Deduct	-17.57	
For >1,000 To 2,000, Deduct	-34.00	
For >2,000 To 5,000, Deduct	-51.57	
For >5,000, Deduct	-84.42	
33 01 30 72-0241 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	881.76	
For Vinlyester Resin, Add	580.59	
For Epoxy Resin, Add	68.43	
For Up To >10, Add	571.73	
For >10 To 25, Add	338.21	
For >25 To 50, Add	244.39	
For >50 To 100, Add	122.20	
For >500 To 1,000, Deduct	-20.51	
For >1,000 To 2,000, Deduct	-39.72	
For >2,000 To 5,000, Deduct	-60.23	
For >5,000, Deduct	-98.64	
33 01 30 72-0242 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,013.02	
For Vinlyester Resin, Add	666.43	
For Epoxy Resin, Add	78.54	
For Up To >10, Add	658.96	
For >10 To 25, Add	390.46	
For >25 To 50, Add	281.88	
For >50 To 100, Add	140.94	
For >500 To 1,000, Deduct	-23.61	
For >1,000 To 2,000, Deduct	-45.70	
For >2,000 To 5,000, Deduct	-69.32	
For >5,000, Deduct	-113.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0243 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,147.93	
For Vinlyester Resin, Add	752.27	
For Epoxy Resin, Add	88.66	
For Up To >10, Add	757.12	
For >10 To 25, Add	451.82	
For >25 To 50, Add	324.82	
For >50 To 100, Add	162.41	
For >500 To 1,000, Deduct	-26.99	
For >1,000 To 2,000, Deduct	-52.14	
For >2,000 To 5,000, Deduct	-79.13	
For >5,000, Deduct	-129.45	
33 01 30 72-0244 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,292.40	
For Vinlyester Resin, Add	838.10	
For Epoxy Resin, Add	98.78	
For Up To >10, Add	883.98	
For >10 To 25, Add	537.10	
For >25 To 50, Add	382.12	
For >50 To 100, Add	191.06	
For >500 To 1,000, Deduct	-31.08	
For >1,000 To 2,000, Deduct	-59.78	
For >2,000 To 5,000, Deduct	-90.86	
For >5,000, Deduct	-148.26	
33 01 30 72-0245 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,449.58	
For Vinlyester Resin, Add	923.94	
For Epoxy Resin, Add	108.89	
For Up To >10, Add	1,048.94	
For >10 To 25, Add	654.13	
For >25 To 50, Add	458.47	
For >50 To 100, Add	229.24	
For >500 To 1,000, Deduct	-36.12	
For >1,000 To 2,000, Deduct	-69.00	
For >2,000 To 5,000, Deduct	-105.13	
For >5,000, Deduct	-170.89	
33 01 30 72-0246 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,616.86	
For Vinlyester Resin, Add	1,009.79	
For Epoxy Resin, Add	119.01	
For Up To >10, Add	1,244.21	
For >10 To 25, Add	796.41	
For >25 To 50, Add	549.98	
For >50 To 100, Add	274.99	
For >500 To 1,000, Deduct	-41.92	
For >1,000 To 2,000, Deduct	-79.49	
For >2,000 To 5,000, Deduct	-121.42	
For >5,000, Deduct	-196.55	
<b>33 01 30 72-0247 37.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0248 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	647.94	
For Vinlyester Resin, Add	425.08	
For Epoxy Resin, Add	50.10	
For Up To >10, Add	425.70	
For >10 To 25, Add	253.54	
For >25 To 50, Add	182.49	
For >50 To 100, Add	91.24	
For >500 To 1,000, Deduct	-15.20	
For >1,000 To 2,000, Deduct	-29.38	
For >2,000 To 5,000, Deduct	-44.57	
For >5,000, Deduct	-72.93	
33 01 30 72-0249 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	780.77	
For Vinlyester Resin, Add	514.49	
For Epoxy Resin, Add	60.64	
For Up To >10, Add	504.86	
For >10 To 25, Add	298.22	
For >25 To 50, Add	215.68	
For >50 To 100, Add	107.84	
For >500 To 1,000, Deduct	-18.13	
For >1,000 To 2,000, Deduct	-35.12	
For >2,000 To 5,000, Deduct	-53.26	
For >5,000, Deduct	-87.24	
33 01 30 72-0250 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	915.06	
For Vinlyester Resin, Add	603.90	
For Epoxy Resin, Add	71.17	
For Up To >10, Add	588.38	
For >10 To 25, Add	346.53	
For >25 To 50, Add	251.05	
For >50 To 100, Add	125.53	
For >500 To 1,000, Deduct	-21.18	
For >1,000 To 2,000, Deduct	-41.05	
For >2,000 To 5,000, Deduct	-62.23	
For >5,000, Deduct	-101.97	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

33 01 30 72-0251	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,051.43	
		For Vinlyester Resin, Add	693.32	
		For Epoxy Resin, Add	81.71	
		For Up To >10, Add	678.17	
		For >10 To 25, Add	400.06	
		For >25 To 50, Add	289.56	
		For >50 To 100, Add	144.78	
		For >500 To 1,000, Deduct	-24.38	
		For >1,000 To 2,000, Deduct	-47.24	
		For >2,000 To 5,000, Deduct	-71.62	
		For >5,000, Deduct	-117.34	
33 01 30 72-0252	LF	37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,191.45	
		For Vinlyester Resin, Add	782.73	
		For Epoxy Resin, Add	92.25	
		For Up To >10, Add	778.88	
		For >10 To 25, Add	462.70	
		For >25 To 50, Add	333.53	
		For >50 To 100, Add	166.76	
		For >500 To 1,000, Deduct	-27.86	
		For >1,000 To 2,000, Deduct	-53.89	
		For >2,000 To 5,000, Deduct	-81.74	
		For >5,000, Deduct	-133.80	
33 01 30 72-0253	LF	37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,341.03	
		For Vinlyester Resin, Add	872.14	
		For Epoxy Resin, Add	102.79	
		For Up To >10, Add	908.29	
		For >10 To 25, Add	549.26	
		For >25 To 50, Add	391.85	
		For >50 To 100, Add	195.92	
		For >500 To 1,000, Deduct	-32.05	
		For >1,000 To 2,000, Deduct	-61.73	
		For >2,000 To 5,000, Deduct	-93.78	
		For >5,000, Deduct	-153.13	
33 01 30 72-0254	LF	37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,503.32	
		For Vinlyester Resin, Add	961.56	
		For Epoxy Resin, Add	113.33	
		For Up To >10, Add	1,075.81	
		For >10 To 25, Add	667.57	
		For >25 To 50, Add	469.22	
		For >50 To 100, Add	234.61	
		For >500 To 1,000, Deduct	-37.20	
		For >1,000 To 2,000, Deduct	-71.15	
		For >2,000 To 5,000, Deduct	-108.35	
		For >5,000, Deduct	-176.26	
33 01 30 72-0255	LF	37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,675.70	
		For Vinlyester Resin, Add	1,050.97	
		For Epoxy Resin, Add	123.86	
		For Up To >10, Add	1,273.63	
		For >10 To 25, Add	811.12	
		For >25 To 50, Add	561.74	
		For >50 To 100, Add	280.87	
		For >500 To 1,000, Deduct	-43.10	
		For >1,000 To 2,000, Deduct	-81.84	
		For >2,000 To 5,000, Deduct	-124.95	
		For >5,000, Deduct	-202.43	

**33 01 30 72-0256 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)**

33 01 30 72-0257	LF	39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	811.15	
		For Vinlyester Resin, Add	534.15	
		For Epoxy Resin, Add	62.95	
		For Up To >10, Add	525.78	
		For >10 To 25, Add	310.97	
		For >25 To 50, Add	224.73	
		For >50 To 100, Add	112.37	
		For >500 To 1,000, Deduct	-18.87	
		For >1,000 To 2,000, Deduct	-36.53	
		For >2,000 To 5,000, Deduct	-55.40	
		For >5,000, Deduct	-90.73	
33 01 30 72-0258	LF	39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	950.87	
		For Vinlyester Resin, Add	627.14	
		For Epoxy Resin, Add	73.91	
		For Up To >10, Add	612.81	
		For >10 To 25, Add	361.36	
		For >25 To 50, Add	261.61	
		For >50 To 100, Add	130.80	
		For >500 To 1,000, Deduct	-22.04	
		For >1,000 To 2,000, Deduct	-42.71	
		For >2,000 To 5,000, Deduct	-64.75	
		For >5,000, Deduct	-106.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0259 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,092.86	
<i>For Vinylster Resin, Add</i>	720.13	
<i>For Epoxy Resin, Add</i>	84.87	
<i>For Up To &gt;10, Add</i>	706.68	
<i>For &gt;10 To 25, Add</i>	417.44	
<i>For &gt;25 To 50, Add</i>	301.90	
<i>For &gt;50 To 100, Add</i>	150.95	
<i>For &gt;500 To 1,000, Deduct</i>	-25.38	
<i>For &gt;1,000 To 2,000, Deduct</i>	-49.16	
<i>For &gt;2,000 To 5,000, Deduct</i>	-74.55	
<i>For &gt;5,000, Deduct</i>	-122.11	
33 01 30 72-0260 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,238.51	
<i>For Vinylster Resin, Add</i>	813.13	
<i>For Epoxy Resin, Add</i>	95.83	
<i>For Up To &gt;10, Add</i>	811.51	
<i>For &gt;10 To 25, Add</i>	482.65	
<i>For &gt;25 To 50, Add</i>	347.67	
<i>For &gt;50 To 100, Add</i>	173.84	
<i>For &gt;500 To 1,000, Deduct</i>	-29.00	
<i>For &gt;1,000 To 2,000, Deduct</i>	-56.08	
<i>For &gt;2,000 To 5,000, Deduct</i>	-85.08	
<i>For &gt;5,000, Deduct</i>	-139.23	
33 01 30 72-0261 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,394.24	
<i>For Vinylster Resin, Add</i>	906.12	
<i>For Epoxy Resin, Add</i>	106.79	
<i>For Up To &gt;10, Add</i>	946.60	
<i>For &gt;10 To 25, Add</i>	573.09	
<i>For &gt;25 To 50, Add</i>	408.58	
<i>For &gt;50 To 100, Add</i>	204.29	
<i>For &gt;500 To 1,000, Deduct</i>	-33.37	
<i>For &gt;1,000 To 2,000, Deduct</i>	-64.25	
<i>For &gt;2,000 To 5,000, Deduct</i>	-97.63	
<i>For &gt;5,000, Deduct</i>	-159.38	
33 01 30 72-0262 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,563.41	
<i>For Vinylster Resin, Add</i>	999.11	
<i>For Epoxy Resin, Add</i>	117.75	
<i>For Up To &gt;10, Add</i>	1,121.98	
<i>For &gt;10 To 25, Add</i>	697.10	
<i>For &gt;25 To 50, Add</i>	489.63	
<i>For &gt;50 To 100, Add</i>	244.81	
<i>For &gt;500 To 1,000, Deduct</i>	-38.75	
<i>For &gt;1,000 To 2,000, Deduct</i>	-74.11	
<i>For &gt;2,000 To 5,000, Deduct</i>	-112.86	
<i>For &gt;5,000, Deduct</i>	-183.56	
33 01 30 72-0263 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,743.29	
<i>For Vinylster Resin, Add</i>	1,092.10	
<i>For Epoxy Resin, Add</i>	128.71	
<i>For Up To &gt;10, Add</i>	1,329.52	
<i>For &gt;10 To 25, Add</i>	847.91	
<i>For &gt;25 To 50, Add</i>	586.75	
<i>For &gt;50 To 100, Add</i>	293.38	
<i>For &gt;500 To 1,000, Deduct</i>	-44.94	
<i>For &gt;1,000 To 2,000, Deduct</i>	-85.30	
<i>For &gt;2,000 To 5,000, Deduct</i>	-130.24	
<i>For &gt;5,000, Deduct</i>	-210.96	
<b>33 01 30 72-0264 40.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0265 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	983.97	
<i>For Vinylster Resin, Add</i>	650.31	
<i>For Epoxy Resin, Add</i>	76.64	
<i>For Up To &gt;10, Add</i>	629.36	
<i>For &gt;10 To 25, Add</i>	369.63	
<i>For &gt;25 To 50, Add</i>	268.23	
<i>For &gt;50 To 100, Add</i>	134.11	
<i>For &gt;500 To 1,000, Deduct</i>	-22.70	
<i>For &gt;1,000 To 2,000, Deduct</i>	-44.03	
<i>For &gt;2,000 To 5,000, Deduct</i>	-66.73	
<i>For &gt;5,000, Deduct</i>	-109.39	
33 01 30 72-0266 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,131.03	
<i>For Vinylster Resin, Add</i>	746.88	
<i>For Epoxy Resin, Add</i>	88.03	
<i>For Up To &gt;10, Add</i>	725.67	
<i>For &gt;10 To 25, Add</i>	426.89	
<i>For &gt;25 To 50, Add</i>	309.48	
<i>For &gt;50 To 100, Add</i>	154.74	
<i>For &gt;500 To 1,000, Deduct</i>	-26.14	
<i>For &gt;1,000 To 2,000, Deduct</i>	-50.69	
<i>For &gt;2,000 To 5,000, Deduct</i>	-76.83	
<i>For &gt;5,000, Deduct</i>	-125.92	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0267 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,281.83	
For Vinlyester Resin, Add	843.45	
For Epoxy Resin, Add	99.41	
For Up To >10, Add	833.17	
For >10 To 25, Add	493.48	
For >25 To 50, Add	356.34	
For >50 To 100, Add	178.17	
For >500 To 1,000, Deduct	-29.87	
For >1,000 To 2,000, Deduct	-57.81	
For >2,000 To 5,000, Deduct	-87.68	
For >5,000, Deduct	-143.56	
33 01 30 72-0268 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,442.67	
For Vinlyester Resin, Add	940.02	
For Epoxy Resin, Add	110.79	
For Up To >10, Add	970.81	
For >10 To 25, Add	585.20	
For >25 To 50, Add	418.26	
For >50 To 100, Add	209.13	
For >500 To 1,000, Deduct	-34.34	
For >1,000 To 2,000, Deduct	-66.19	
For >2,000 To 5,000, Deduct	-100.53	
For >5,000, Deduct	-164.23	
33 01 30 72-0269 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,616.95	
For Vinlyester Resin, Add	1,036.59	
For Epoxy Resin, Add	122.17	
For Up To >10, Add	1,148.75	
For >10 To 25, Add	710.49	
For >25 To 50, Add	500.33	
For >50 To 100, Add	250.17	
For >500 To 1,000, Deduct	-39.83	
For >1,000 To 2,000, Deduct	-76.25	
For >2,000 To 5,000, Deduct	-116.07	
For >5,000, Deduct	-188.92	
33 01 30 72-0270 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,801.84	
For Vinlyester Resin, Add	1,133.15	
For Epoxy Resin, Add	133.55	
For Up To >10, Add	1,358.55	
For >10 To 25, Add	862.32	
For >25 To 50, Add	598.33	
For >50 To 100, Add	299.17	
For >500 To 1,000, Deduct	-46.10	
For >1,000 To 2,000, Deduct	-87.63	
For >2,000 To 5,000, Deduct	-133.74	
For >5,000, Deduct	-216.79	
<b>33 01 30 72-0271 42mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0272 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,172.31	
For Vinlyester Resin, Add	773.56	
For Epoxy Resin, Add	91.17	
For Up To >10, Add	754.23	
For >10 To 25, Add	444.35	
For >25 To 50, Add	321.86	
For >50 To 100, Add	160.93	
For >500 To 1,000, Deduct	-27.14	
For >1,000 To 2,000, Deduct	-52.61	
For >2,000 To 5,000, Deduct	-79.75	
For >5,000, Deduct	-130.68	
33 01 30 72-0273 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,328.90	
For Vinlyester Resin, Add	873.71	
For Epoxy Resin, Add	102.97	
For Up To >10, Add	866.33	
For >10 To 25, Add	513.91	
For >25 To 50, Add	370.76	
For >50 To 100, Add	185.38	
For >500 To 1,000, Deduct	-31.02	
For >1,000 To 2,000, Deduct	-60.02	
For >2,000 To 5,000, Deduct	-91.04	
For >5,000, Deduct	-149.04	
33 01 30 72-0274 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,496.00	
For Vinlyester Resin, Add	973.85	
For Epoxy Resin, Add	114.77	
For Up To >10, Add	1,009.98	
For >10 To 25, Add	609.78	
For >25 To 50, Add	435.43	
For >50 To 100, Add	217.71	
For >500 To 1,000, Deduct	-35.68	
For >1,000 To 2,000, Deduct	-68.75	
For >2,000 To 5,000, Deduct	-104.43	
For >5,000, Deduct	-170.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,663.10	
<i>For Vinlyester Resin, Add</i>	1,073.99	
<i>For Epoxy Resin, Add</i>	126.58	
<i>For Up To &gt;10, Add</i>	1,153.63	
<i>For &gt;10 To 25, Add</i>	705.64	
<i>For &gt;25 To 50, Add</i>	500.10	
<i>For &gt;50 To 100, Add</i>	250.05	
<i>For &gt;500 To 1,000, Deduct</i>	-40.35	
<i>For &gt;1,000 To 2,000, Deduct</i>	-77.47	
<i>For &gt;2,000 To 5,000, Deduct</i>	-117.82	
<i>For &gt;5,000, Deduct</i>	-192.08	
33 01 30 72-0276 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) .....	1,869.34	
<i>For Vinlyester Resin, Add</i>	1,174.14	
<i>For Epoxy Resin, Add</i>	138.38	
<i>For Up To &gt;10, Add</i>	1,414.67	
<i>For &gt;10 To 25, Add</i>	899.34	
<i>For &gt;25 To 50, Add</i>	623.47	
<i>For &gt;50 To 100, Add</i>	311.73	
<i>For &gt;500 To 1,000, Deduct</i>	-47.95	
<i>For &gt;1,000 To 2,000, Deduct</i>	-91.09	
<i>For &gt;2,000 To 5,000, Deduct</i>	-139.04	
<i>For &gt;5,000, Deduct</i>	-225.33	
<b>33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)</b>		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	422.89	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	457.19	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	485.76	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	514.33	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	542.91	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	454.94	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder .....	519.59	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder .....	584.22	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	492.45	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application .....	529.94	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner .....	568.45	
33 01 30 74-0018 EA 6" Lateral T-Liner .....	631.93	
33 01 30 74-0019 EA 8" Lateral T-Liner .....	730.11	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP) .....	25.80	
<i>For 7.5mm, Add</i>	2.23	
<i>For 9 mm, Add</i>	4.42	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP) .....	29.99	
<i>For 7.5mm, Add</i>	3.04	
<i>For 9 mm, Add</i>	6.02	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP) .....	37.59	
<i>For 7.5mm, Add</i>	4.66	
<i>For 9 mm, Add</i>	9.21	
33 01 30 74-0025 Lining Manhole Drop (33 01 30 74-0020)		
33 01 30 74-0026 EA Manhole Drop Section Lining .....	600.01	
<b>33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)</b>		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	4,162.49	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines .....	1,665.00	

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)</b>		
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	29.72	
For DR 26 Pipe Liner, Add	5.20	
For Up To 75, Add	17.54	
For >75 To 150, Add	8.77	
For >500 To 1,000, Deduct	-0.67	
For >1,000 To 2,000, Deduct	-1.34	
For >2,000, Deduct	-2.68	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	37.87	
For DR 26 Pipe Liner, Add	7.07	
For DR 35 Pipe Liner, Deduct	-3.53	
For Up To 75, Add	20.07	
For >75 To 150, Add	10.03	
For >500 To 1,000, Deduct	-0.72	
For >1,000 To 2,000, Deduct	-1.44	
For >2,000, Deduct	-2.88	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	39.18	
For DR 26 Pipe Liner, Add	7.20	
For DR 35 Pipe Liner, Deduct	-3.60	
For Up To 75, Add	21.36	
For >75 To 150, Add	10.68	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 2,000, Deduct	-1.56	
For >2,000, Deduct	-3.12	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	54.53	
For DR 26 Pipe Liner, Add	10.79	
For DR 35 Pipe Liner, Deduct	-5.40	
For DR 41 Pipe Liner, Deduct	-10.79	
For Up To 75, Add	25.67	
For >75 To 150, Add	12.84	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.70	
For >2,000, Deduct	-3.41	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	75.67	
For DR 26 Pipe Liner, Add	15.80	
For DR 35 Pipe Liner, Deduct	-7.90	
For DR 41 Pipe Liner, Deduct	-15.80	
For Up To 75, Add	31.37	
For >75 To 150, Add	15.69	
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 2,000, Deduct	-1.87	
For >2,000, Deduct	-3.75	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	103.15	
For DR 35 Pipe Liner, Deduct	-11.12	
For DR 41 Pipe Liner, Deduct	-22.24	
For Up To 75, Add	39.08	
For >75 To 150, Add	19.54	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.13	
For >2,000, Deduct	-4.26	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35.....	145.00	
For DR 41 Pipe Liner, Deduct	-12.90	
For DR 50 Pipe Liner, Deduct	-25.80	
For Up To 75, Add	49.81	
For >75 To 150, Add	24.91	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-2.40	
For >2,000, Deduct	-4.80	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47.....	163.87	
For DR 50 Pipe Liner, Deduct	-21.98	
For DR 55 Pipe Liner, Deduct	-36.63	
For Up To 75, Add	55.33	
For >75 To 150, Add	27.66	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000, Deduct	-5.21	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55.....	199.45	
For DR 60 Pipe Liner, Deduct	-27.08	
For Up To 75, Add	64.49	
For >75 To 150, Add	32.24	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,000, Deduct	-2.84	
For >2,000, Deduct	-5.68	
<b>33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)</b>		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	31.68	
For DR 26 Pipe Liner, Add	5.69	
For Up To 75, Add	17.93	
For >75 To 150, Add	8.97	
For >500 To 1,000, Deduct	-0.67	
For >1,000 To 2,000, Deduct	-1.34	
For >2,000, Deduct	-2.68	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	37.87	
For DR 26 Pipe Liner, Add	7.07	
For DR 35 Pipe Liner, Deduct	-3.53	
For Up To 75, Add	20.07	
For >75 To 150, Add	10.03	
For >500 To 1,000, Deduct	-0.72	
For >1,000 To 2,000, Deduct	-1.44	
For >2,000, Deduct	-2.88	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	41.80	
For DR 26 Pipe Liner, Add	7.85	
For DR 35 Pipe Liner, Deduct	-3.93	
For Up To 75, Add	21.88	
For >75 To 150, Add	10.94	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 2,000, Deduct	-1.56	
For >2,000, Deduct	-3.12	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	58.45	
For DR 26 Pipe Liner, Add	11.77	
For DR 35 Pipe Liner, Deduct	-5.89	
For DR 41 Pipe Liner, Deduct	-11.77	
For Up To 75, Add	26.46	
For >75 To 150, Add	13.23	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.70	
For >2,000, Deduct	-3.41	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	81.56	
For DR 26 Pipe Liner, Add	17.27	
For DR 35 Pipe Liner, Deduct	-8.63	
For DR 41 Pipe Liner, Deduct	-17.27	
For Up To 75, Add	32.55	
For >75 To 150, Add	16.27	
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 2,000, Deduct	-1.87	
For >2,000, Deduct	-3.75	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	111.52	
For DR 35 Pipe Liner, Deduct	-12.17	
For DR 41 Pipe Liner, Deduct	-24.33	
For Up To 75, Add	40.75	
For >75 To 150, Add	20.38	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.13	
For >2,000, Deduct	-4.26	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35	157.29	
For DR 41 Pipe Liner, Deduct	-14.13	
For DR 50 Pipe Liner, Deduct	-28.26	
For Up To 75, Add	52.27	
For >75 To 150, Add	26.14	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-2.40	
For >2,000, Deduct	-4.80	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47	177.47	
For DR 50 Pipe Liner, Deduct	-24.02	
For DR 55 Pipe Liner, Deduct	-40.03	
For Up To 75, Add	58.05	
For >75 To 150, Add	29.02	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000, Deduct	-5.21	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55	216.72	
For DR 60 Pipe Liner, Deduct	-29.67	
For Up To 75, Add	67.94	
For >75 To 150, Add	33.97	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,000, Deduct	-2.84	
For >2,000, Deduct	-5.68	

**33 01 30 81 Manhole Rehabilitation (33 01 30)**

33 01 30 81-0001	Restoration And Rehabilitation Of Manholes (33 01 30 81)	
	Note: Work is in confined spaces.	
33 01 30 81-0002	Inspection And Ventilation System Set-up (33 01 30 81-0001)	
33 01 30 81-0003	EA Inspect Manhole	155.90
33 01 30 81-0004	EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	9,251.04
	Note: For internal inspection and repair of water mains.	
33 01 30 81-0005	EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'	13,041.10
	Note: For internal inspection and repair of water mains	
33 01 30 81-0006	Manhole Seals (33 01 30 81-0001)	
33 01 30 81-0007	Internal Manhole Chimney Seals (33 01 30 81-0006)	
	Note: Cretex.	
33 01 30 81-0008	EA 20" Internal Manhole Chimney Seal	413.62
33 01 30 81-0009	EA 22" Internal Manhole Chimney Seal	435.98
33 01 30 81-0010	EA 24" Internal Manhole Chimney Seal	447.15

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	514.24	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	581.31	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	648.38	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	782.53	
<b>33 01 30 81-0015 External Manhole Encapsulation</b> (33 01 30 81-0006) Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation.....	603.67	
33 01 30 81-0017 EA 30" External Manhole Encapsulation.....	637.20	
33 01 30 81-0018 EA 36" External Manhole Encapsulation.....	681.92	
33 01 30 81-0019 EA 42" External Manhole Encapsulation.....	737.81	
33 01 30 81-0020 EA 48" External Manhole Encapsulation.....	816.07	
33 01 30 81-0021 EA 54" External Manhole Encapsulation.....	905.50	
33 01 30 81-0022 EA 60" External Manhole Encapsulation.....	1,017.29	
<b>33 01 30 81-0023 Manhole Crack Repair</b> (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	45.13	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	60.84	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair.....	42.55	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	57.50	
<b>33 01 30 81-0028 Manhole Patching</b> (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	13.89	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	35.50	
<b>33 01 30 81-0031 Manhole Joint Restoration</b> (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	1,544.24	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	199.20	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	1,802.60	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	219.90	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,059.00	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	240.60	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,419.48	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	250.95	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,778.98	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	261.30	
<b>33 01 30 81-0037 Step Installation In Existing Manholes</b> (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	101.82	18.77
33 01 30 81-0039 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	109.59	18.77
33 01 30 81-0040 EA Drill And Grout Galvanized Steel Manhole Step.....	85.99	18.77
33 01 30 81-0041 EA Bolt On Galvanized Steel Manhole Step.....	106.33	18.77
33 01 30 81-0042 EA Drill And Grout Aluminum Manhole Step.....	104.28	18.77
33 01 30 81-0043 EA Drill And Insert Polypropylene Manhole Step.....	52.00	15.01
<b>33 01 30 81-0044 Invert Restoration</b> (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.		
<b>33 01 30 81-0045 Concrete Invert Restoration</b> (33 01 30 81-0044)		
33 01 30 81-0046 EA 2' Diameter, Concrete Invert Restoration.....	315.50	
33 01 30 81-0047 EA 3' Diameter, Concrete Invert Restoration.....	354.48	
33 01 30 81-0048 EA 4' Diameter, Concrete Invert Restoration.....	393.44	
33 01 30 81-0049 EA 5' Diameter, Concrete Invert Restoration.....	432.42	
33 01 30 81-0050 EA 6' Diameter, Concrete Invert Restoration.....	549.34	
33 01 30 81-0051 SF Square Or Rectangular, Concrete Invert Restoration.....	31.29	
<b>33 01 30 81-0052 Brick Invert Restoration</b> (33 01 30 81-0044)		
33 01 30 81-0053 EA 2' Diameter, Brick Invert Restoration.....	501.94	
33 01 30 81-0054 EA 3' Diameter, Brick Invert Restoration.....	540.90	
33 01 30 81-0055 EA 4' Diameter, Brick Invert Restoration.....	579.88	
33 01 30 81-0056 EA 5' Diameter, Brick Invert Restoration.....	618.86	
33 01 30 81-0057 EA 6' Diameter, Brick Invert Restoration.....	657.84	
33 01 30 81-0058 SF Square Or Rectangular, Brick Invert Restoration.....	43.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 01 30 82 Epoxy Lining For Concrete Manholes** (33 01 30)

**33 01 30 82-0001 Epoxy Manhole Restoration, Interior** (33 01 30 82)

33 01 30 82-0002	VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior .....	268.09
	<i>For 80 Mil Material, Add</i>	29.20
	<i>For 100 Mil Material, Add</i>	58.41
	<i>For 125 Mil Material, Add</i>	90.54
	<i>For 150 Mil Material, Add</i>	122.68
	<i>For 200 Mil Material, Add</i>	175.31
	<i>For 2 To 5 Manholes, Deduct</i>	-19.23
	<i>For 6 To 10 Manholes, Deduct</i>	-31.75
	<i>For &gt;10 Manholes, Deduct</i>	-63.50
33 01 30 82-0003	VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior .....	325.74
	<i>For 80 Mil Material, Add</i>	35.05
	<i>For 100 Mil Material, Add</i>	70.11
	<i>For 125 Mil Material, Add</i>	108.59
	<i>For 150 Mil Material, Add</i>	147.07
	<i>For 200 Mil Material, Add</i>	209.79
	<i>For 2 To 5 Manholes, Deduct</i>	-23.40
	<i>For 6 To 10 Manholes, Deduct</i>	-38.66
	<i>For &gt;10 Manholes, Deduct</i>	-77.32
33 01 30 82-0004	VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior .....	357.44
	<i>For 80 Mil Material, Add</i>	38.94
	<i>For 100 Mil Material, Add</i>	77.87
	<i>For 125 Mil Material, Add</i>	120.72
	<i>For 150 Mil Material, Add</i>	163.57
	<i>For 200 Mil Material, Add</i>	233.75
	<i>For 2 To 5 Manholes, Deduct</i>	-25.63
	<i>For 6 To 10 Manholes, Deduct</i>	-42.33
	<i>For &gt;10 Manholes, Deduct</i>	-84.67
33 01 30 82-0005	VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior .....	446.84
	<i>For 80 Mil Material, Add</i>	48.68
	<i>For 100 Mil Material, Add</i>	97.36
	<i>For 125 Mil Material, Add</i>	150.94
	<i>For 150 Mil Material, Add</i>	204.52
	<i>For 200 Mil Material, Add</i>	292.26
	<i>For 2 To 5 Manholes, Deduct</i>	-32.05
	<i>For 6 To 10 Manholes, Deduct</i>	-52.92
	<i>For &gt;10 Manholes, Deduct</i>	-105.84
33 01 30 82-0006	VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior .....	536.20
	<i>For 80 Mil Material, Add</i>	58.42
	<i>For 100 Mil Material, Add</i>	116.83
	<i>For 125 Mil Material, Add</i>	181.12
	<i>For 150 Mil Material, Add</i>	245.41
	<i>For 200 Mil Material, Add</i>	350.70
	<i>For 2 To 5 Manholes, Deduct</i>	-38.45
	<i>For 6 To 10 Manholes, Deduct</i>	-63.50
	<i>For &gt;10 Manholes, Deduct</i>	-127.00

**33 01 30 83 Lining For Concrete Manholes** (33 01 30)

**33 01 30 83-0001 Manhole Lining** (33 01 30 83)

Note: Includes power washing and cleaning of manhole interiors.

**33 01 30 83-0002 Cementitious Manhole Restoration, Interior** (33 01 30 83-0001)

33 01 30 83-0003	VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior .....	123.16
	<i>For Each Additional 1/2" Thick Material, Add</i>	32.19
	<i>For 2 To 5 Manholes, Deduct</i>	-8.62
	<i>For 6 To 10 Manholes, Deduct</i>	-14.15
	<i>For &gt;10 Manholes, Deduct</i>	-28.31
33 01 30 83-0004	VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior .....	142.83
	<i>For Each Additional 1/2" Thick Material, Add</i>	37.47
	<i>For 2 To 5 Manholes, Deduct</i>	-9.99
	<i>For 6 To 10 Manholes, Deduct</i>	-16.40
	<i>For &gt;10 Manholes, Deduct</i>	-32.81
33 01 30 83-0005	VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior .....	162.49
	<i>For Each Additional 1/2" Thick Material, Add</i>	42.75
	<i>For 2 To 5 Manholes, Deduct</i>	-11.36
	<i>For 6 To 10 Manholes, Deduct</i>	-18.66
	<i>For &gt;10 Manholes, Deduct</i>	-37.31
33 01 30 83-0006	VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior .....	191.67
	<i>For Each Additional 1/2" Thick Material, Add</i>	52.45
	<i>For 2 To 5 Manholes, Deduct</i>	-13.34
	<i>For 6 To 10 Manholes, Deduct</i>	-21.88
	<i>For &gt;10 Manholes, Deduct</i>	-43.76
33 01 30 83-0007	VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior .....	210.11
	<i>For Each Additional 1/2" Thick Material, Add</i>	60.76
	<i>For 2 To 5 Manholes, Deduct</i>	-14.52
	<i>For 6 To 10 Manholes, Deduct</i>	-23.78
	<i>For &gt;10 Manholes, Deduct</i>	-47.56

**33 01 30 83-0008 Polyurethane Manhole Restoration, Interior** (33 01 30 83-0001)

**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior .....	245.19	
For 80 Mil Material, Add	21.57	
For 100 Mil Material, Add	43.14	
For 125 Mil Material, Add	65.73	
For 150 Mil Material, Add	88.33	
For 200 Mil Material, Add	121.88	
For 2 To 5 Manholes, Deduct	-18.08	
For 6 To 10 Manholes, Deduct	-30.03	
For >10 Manholes, Deduct	-60.07	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior .....	298.98	
For 80 Mil Material, Add	26.13	
For 100 Mil Material, Add	52.27	
For 125 Mil Material, Add	79.60	
For 150 Mil Material, Add	106.93	
For 200 Mil Material, Add	147.35	
For 2 To 5 Manholes, Deduct	-22.06	
For 6 To 10 Manholes, Deduct	-36.65	
For >10 Manholes, Deduct	-73.31	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior .....	326.90	
For 80 Mil Material, Add	28.76	
For 100 Mil Material, Add	57.51	
For 125 Mil Material, Add	87.64	
For 150 Mil Material, Add	117.76	
For 200 Mil Material, Add	162.49	
For 2 To 5 Manholes, Deduct	-24.11	
For 6 To 10 Manholes, Deduct	-40.04	
For >10 Manholes, Deduct	-80.08	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior .....	408.63	
For 80 Mil Material, Add	35.95	
For 100 Mil Material, Add	71.89	
For 125 Mil Material, Add	109.55	
For 150 Mil Material, Add	147.20	
For 200 Mil Material, Add	203.10	
For 2 To 5 Manholes, Deduct	-30.13	
For 6 To 10 Manholes, Deduct	-50.05	
For >10 Manholes, Deduct	-100.11	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior .....	490.35	
For 80 Mil Material, Add	43.13	
For 100 Mil Material, Add	86.27	
For 125 Mil Material, Add	131.45	
For 150 Mil Material, Add	176.64	
For 200 Mil Material, Add	243.72	
For 2 To 5 Manholes, Deduct	-36.16	
For 6 To 10 Manholes, Deduct	-60.06	
For >10 Manholes, Deduct	-120.13	
<b>33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)</b>		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole .....	361.23	
For 2 To 5 Manholes, Deduct	-21.57	
For 6 To 10 Manholes, Deduct	-34.12	
For >10 Manholes, Deduct	-68.23	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole .....	442.29	
For 2 To 5 Manholes, Deduct	-26.41	
For 6 To 10 Manholes, Deduct	-41.76	
For >10 Manholes, Deduct	-83.51	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole .....	517.53	
For 2 To 5 Manholes, Deduct	-30.56	
For 6 To 10 Manholes, Deduct	-48.18	
For >10 Manholes, Deduct	-96.36	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole .....	648.83	
For 2 To 5 Manholes, Deduct	-38.30	
For 6 To 10 Manholes, Deduct	-60.37	
For >10 Manholes, Deduct	-120.74	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole .....	780.14	
For 2 To 5 Manholes, Deduct	-46.03	
For 6 To 10 Manholes, Deduct	-72.56	
For >10 Manholes, Deduct	-145.12	
<b>33 01 30 86 Manhole Rim Adjustment (33 01 30)</b>		
<b>33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)</b>		
<b>33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)</b>		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	283.08	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	317.34	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	348.66	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	384.07	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	413.18	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 86-0008				<b>Up To 6" Rise, &gt;26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser</b> <small>(33 01 30 86-0001)</small>		
33 01 30 86-0009	EA			Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	329.66	
33 01 30 86-0010	EA			>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	358.91	
33 01 30 86-0011	EA			>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	395.43	
33 01 30 86-0012	EA			>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	430.83	
33 01 30 86-0013	EA			>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	465.12	
33 01 30 86-0014				<b>Up To 6" Rise, &gt;32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers</b> <small>(33 01 30 86-0001)</small>		
33 01 30 86-0015	EA			Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	380.08	
33 01 30 86-0016	EA			>4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers .....	401.49	
33 01 30 86-0017	EA			>5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers .....	424.64	
33 01 30 86-0018				<b>&gt;6" To 12" Rise, &gt;32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers</b> <small>(33 01 30 86-0001)</small>		
33 01 30 86-0019	EA			>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	461.43	
33 01 30 86-0020	EA			7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	501.25	
33 01 30 86-0021	EA			7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	541.80	
33 01 30 86-0022	EA			8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	574.58	
33 01 30 86-0023	EA			9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	623.68	
33 01 30 86-0024	EA			10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	668.64	
33 01 30 86-0025	EA			11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	712.86	
33 01 30 86-0026	EA			12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	758.11	
33 01 30 86-0027				<b>&gt;12" Rise, Solid Manhole Risers</b> <small>(33 01 30 86)</small>		
33 01 30 86-0028				<b>Precast Concrete Manhole Riser</b> <small>(33 01 30 86-0027)</small>		
33 01 30 86-0029	VLF			Up To 26" Diameter Precast Concrete Manhole Riser.....	97.69	
33 01 30 86-0030	VLF			>26" To 36" Diameter Precast Concrete Manhole Riser .....	116.56	
33 01 30 86-0031	VLF			>36" To 48" Diameter Precast Concrete Manhole Riser .....	133.08	
33 01 30 86-0032	VLF			>48" To 60" Diameter Precast Concrete Manhole Riser .....	267.36	
33 01 30 86-0033	VLF			>60" To 72" Diameter Precast Concrete Manhole Riser .....	392.34	
33 01 30 89				<b>By Pass Piping And Pumping Of Sewer Utilities</b> <small>(33 01 30)</small>		
33 01 30 89-0001				<b>Set-Up By-Pass Pumping Unit</b> <small>(33 01 30 89)</small> Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0990 for pump rental, 01 22 23 00-1023 for suction hose, 01 22 23 00-1042 for discharge hose.		
33 01 30 89-0002	EA			Set-up By-Pass Pumping Unit.....	1,602.72	
33 01 30 89-0003	EA			Re-Set Up/Move By-Pass Pumping Unit.....	801.36	
33 01 30 89-0004				<b>By-Pass Pumping</b> <small>(33 01 30 89)</small> Note: Excludes pump rental. See CSI section 01 22 23 00-0990 for pump rental.		
33 01 30 89-0005	DAY			Maintain And Operate By-Pass Pumping Unit .....	400.68	
33 01 30 89-0006	WK			Maintain And Operate By-Pass Pumping Unit .....	2,003.40	
33 01 30 89-0007	MO			Maintain And Operate By-Pass Pumping Unit .....	8,414.29	
33 01 30 89-0008				<b>Temporary Bypass And Service Lines</b> <small>(33 01 30 89)</small> Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009				<b>Temporary Water Service Lines</b> <small>(33 01 30 89-0008)</small> Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF			1/2" Temporary Service Hose With Fittings .....	2.50	
				Note: Includes removal after use.		
33 01 30 89-0011	LF			3/4" Temporary Service Hose With Fittings .....	3.17	
				Note: Includes removal after use.		
33 01 30 89-0012	LF			1" Temporary Service Hose With Fittings .....	3.67	
				Note: Includes removal after use.		
33 01 30 89-0013	LF			1-1/2" Temporary Service Hose With Fittings .....	4.38	
				Note: Includes removal after use.		
33 01 30 89-0014	LF			2" Temporary Service Hose With Fittings .....	5.38	
				Note: Includes removal after use.		
33 01 30 89-0015	EA			Temporary Service Valve Assembly At Fire Hydrant .....	277.06	
				Note: Includes removal after use.		
33 01 30 89-0016				<b>Temporary Bypass Water Main Lines</b> <small>(33 01 30 89-0008)</small> Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF			2" Temporary Bypass Pipe With Fittings .....	5.56	
				Note: Includes removal after use.		
				For >500 To 1,000, Deduct	-0.38	
				For >1,000 To 5,000, Deduct	-0.77	
				For >5,000, Deduct	-1.28	



**33 Utilities****33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings .....	7.17	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.50	
For >1,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.65	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings .....	8.86	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.58	
For >1,000 To 5,000, Deduct	-1.15	
For >5,000, Deduct	-1.92	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings .....	11.23	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.69	
For >1,000 To 5,000, Deduct	-1.38	
For >5,000, Deduct	-2.31	
<b>33 01 30 89-0021 Piping Protection For Temporary Water Line</b> (33 01 30 89-0008)		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe .....	2.47	
Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.		
<b>33 01 30 89-0023 Drill Meter Cover For Temporary Water Line</b> (33 01 30 89-0008)		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe .....	13.89	
<b>33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems</b> (33 01)		
<b>33 01 34 13 Septic Tank Solids Removal</b> (33 01 34)		
<b>33 01 34 13-0001 Pump Out Septic Tanks</b> (33 01 34 13)		
33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose .....	0.51	
<b>33 01 40 Operation And Maintenance Of Stormwater Utilities</b> (33 01)		
<b>33 01 40 00-0001 Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System</b> (33 01)		
Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0018 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.		
33 01 40 00-0002 LF 6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	20.33	
For Profile Wall (Corrugated), Deduct	-3.21	
33 01 40 00-0003 LF 8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	30.50	
For Profile Wall (Corrugated), Deduct	-5.03	
33 01 40 00-0004 LF 10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	28.54	
For Profile Wall (Corrugated), Deduct	-4.46	
33 01 40 00-0005 LF 12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	37.72	
For Profile Wall (Corrugated), Deduct	-6.03	
33 01 40 00-0006 LF 14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	43.12	
For Profile Wall (Corrugated), Deduct	-6.76	
33 01 40 00-0007 LF 16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	52.04	
For Profile Wall (Corrugated), Deduct	-8.41	
33 01 40 00-0008 LF 18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	65.41	
For Profile Wall (Corrugated), Deduct	-10.59	
33 01 40 00-0009 LF 20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	80.30	
For Profile Wall (Corrugated), Deduct	-13.21	
33 01 40 00-0010 LF 22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	92.64	
For Profile Wall (Corrugated), Deduct	-15.32	
33 01 40 00-0011 LF 24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	106.03	
For Profile Wall (Corrugated), Deduct	-17.65	
33 01 40 00-0012 LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	121.05	
For Profile Wall (Corrugated), Deduct	-20.29	
33 01 40 00-0013 LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	136.58	
For Profile Wall (Corrugated), Deduct	-23.04	
33 01 40 00-0014 LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	158.26	
For Profile Wall (Corrugated), Deduct	-27.02	
33 01 40 00-0015 LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	181.00	
For Profile Wall (Corrugated), Deduct	-31.22	
33 01 40 00-0016 LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	200.09	
For Profile Wall (Corrugated), Deduct	-34.68	
33 01 40 00-0017 LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	219.19	
For Profile Wall (Corrugated), Deduct	-38.14	
33 01 40 00-0018 LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	250.63	
For Profile Wall (Corrugated), Deduct	-44.07	
33 01 40 00-0019 LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	282.08	
For Profile Wall (Corrugated), Deduct	-50.01	
33 01 40 00-0020 LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	363.18	
For Profile Wall (Corrugated), Deduct	-65.87	
33 01 40 00-0021 LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5 .....	443.24	
For Profile Wall (Corrugated), Deduct	-81.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0022 LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	491.15	
<i>For Profile Wall (Corrugated), Deduct</i>	-90.75	
33 01 40 00-0023 LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	538.62	
<i>For Profile Wall (Corrugated), Deduct</i>	-99.89	
33 01 40 00-0024 LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	587.00	
<i>For Profile Wall (Corrugated), Deduct</i>	-109.21	
33 01 40 00-0025 LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	659.12	
<i>For Profile Wall (Corrugated), Deduct</i>	-123.10	
33 01 40 00-0026 LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	699.85	
<i>For Profile Wall (Corrugated), Deduct</i>	-130.53	
33 01 40 00-0027 LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	744.07	
<i>For Profile Wall (Corrugated), Deduct</i>	-138.49	
33 01 40 00-0028 LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	807.64	
<i>For Profile Wall (Corrugated), Deduct</i>	-150.49	
33 01 40 00-0029 LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	826.59	
<i>For Profile Wall (Corrugated), Deduct</i>	-153.57	
33 01 40 00-0030 LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5.....	837.73	
<i>For Profile Wall (Corrugated), Deduct</i>	-154.91	
33 01 40 00-0031 LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	106.97	
<i>For Profile Wall (Corrugated), Deduct</i>	-17.80	
33 01 40 00-0032 LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	119.87	
<i>For Profile Wall (Corrugated), Deduct</i>	-19.71	
33 01 40 00-0033 LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	132.22	
33 01 40 00-0034 LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	152.65	
<i>For Profile Wall (Corrugated), Deduct</i>	-25.32	
33 01 40 00-0035 LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	167.47	
<i>For Profile Wall (Corrugated), Deduct</i>	-27.81	
33 01 40 00-0036 LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	187.84	
<i>For Profile Wall (Corrugated), Deduct</i>	-31.41	
33 01 40 00-0037 LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	209.30	
<i>For Profile Wall (Corrugated), Deduct</i>	-35.23	
33 01 40 00-0038 LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	250.79	
<i>For Profile Wall (Corrugated), Deduct</i>	-42.58	
33 01 40 00-0039 LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	281.81	
33 01 40 00-0040 LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	312.00	
<i>For Profile Wall (Corrugated), Deduct</i>	-53.88	
33 01 40 00-0041 LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	386.14	
<i>For Profile Wall (Corrugated), Deduct</i>	-68.23	
33 01 40 00-0042 LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	463.50	
<i>For Profile Wall (Corrugated), Deduct</i>	-83.23	
33 01 40 00-0043 LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	592.91	
<i>For Profile Wall (Corrugated), Deduct</i>	-109.11	
33 01 40 00-0044 LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	600.01	
<i>For Profile Wall (Corrugated), Deduct</i>	-109.11	
33 01 40 00-0045 LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert .....	600.01	
<i>For Profile Wall (Corrugated), Deduct</i>	-109.11	
 33 01 40 00-0046 <b>Pumped Grouting For Slip-Lining Systems</b> <small>(33 01 40)</small>		
Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047 CY Flowable Fill Grout, For Pipe Relines.....	516.09	

### 33 05 Common Work Results For Utilities (33)

#### 33 05 07 Trenchless Installation of Utility Piping (33 05)

##### 33 05 07 13 Utility Directional Drilling (33 05 07)

##### 33 05 07 13-0001 Horizontal Augering (33 05 07 13)

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.

33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering .....	21.77
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering .....	26.27
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering .....	36.03
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering .....	46.54
33 05 07 13-0006 LF 8" Diameter Horizontal Augering .....	80.66
33 05 07 13-0007 LF 10" Diameter Horizontal Augering .....	117.67
33 05 07 13-0008 LF 12" Diameter Horizontal Augering .....	141.40
33 05 07 13-0009 LF 16" Diameter Horizontal Augering .....	168.91
33 05 07 13-0010 LF 20" Diameter Horizontal Augering .....	292.28
33 05 07 13-0011 LF 24" Diameter Horizontal Augering .....	358.95
33 05 07 13-0012 LF 30" Diameter Horizontal Augering .....	442.74
33 05 07 13-0013 LF 36" Diameter Horizontal Augering .....	505.84
33 05 07 13-0014 LF 42" Diameter Horizontal Augering .....	629.43
33 05 07 13-0015 LF 48" Diameter Horizontal Augering .....	678.22
33 05 07 13-0016 LF 54" Diameter Horizontal Augering .....	737.60

**33 Utilities****33 05 Common Work Results For Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	773.29	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge .....	3,416.29	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge .....	4,551.52	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge.....	6,425.54	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>33 05 07 13-0021 Horizontal Directional Boring</b> <small>(33 05 07 13)</small>		
Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	11.22	
For Horizontal Boring Through Rock, Add	7.85	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground.....	16.83	
For Horizontal Boring Through Rock, Add	11.78	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground .....	23.37	
For Horizontal Boring Through Rock, Add	16.36	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground.....	28.99	
For Horizontal Boring Through Rock, Add	20.29	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground.....	34.60	
For Horizontal Boring Through Rock, Add	24.22	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground.....	40.20	
For Horizontal Boring Through Rock, Add	28.14	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground.....	46.75	
For Horizontal Boring Through Rock, Add	32.73	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground.....	56.94	
For Horizontal Boring Through Rock, Add	39.86	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground.....	61.68	
For Horizontal Boring Through Rock, Add	43.18	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground.....	66.43	
For Horizontal Boring Through Rock, Add	46.50	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground.....	137.60	
For Horizontal Boring Through Rock, Add	96.32	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground.....	212.06	
For Horizontal Boring Through Rock, Add	148.44	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground.....	323.27	
For Horizontal Boring Through Rock, Add	226.29	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground.....	517.22	
For Horizontal Boring Through Rock, Add	362.05	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge .....	2,992.11	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge .....	3,416.29	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge .....	4,551.52	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>33 05 07 23 Utility Boring and Jacking</b> <small>(33 05 07)</small>		
<b>33 05 07 23-0001 Horizontal Jacking</b> <small>(33 05 07 23)</small>		
Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.		
33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking .....	46.17	
For Horizontal Jacking Through Rock, Add	24.16	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking .....	55.43	
For Horizontal Jacking Through Rock, Add	29.16	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking .....	75.14	
For Horizontal Jacking Through Rock, Add	39.98	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking .....	97.10	
For Horizontal Jacking Through Rock, Add	51.64	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking .....	131.88	
For Horizontal Jacking Through Rock, Add	70.79	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking .....	193.14	
For Horizontal Jacking Through Rock, Add	103.28	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking .....	232.43	
For Horizontal Jacking Through Rock, Add	124.10	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking .....	277.55	
For Horizontal Jacking Through Rock, Add	148.27	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking .....	442.97	
For Horizontal Jacking Through Rock, Add	257.38	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking .....	677.73	
For Horizontal Jacking Through Rock, Add	288.85	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking .....	795.82	
For Horizontal Jacking Through Rock, Add	356.66	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking .....	900.69	
For Horizontal Jacking Through Rock, Add	407.81	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking .....	968.45	
For Horizontal Jacking Through Rock, Add	440.39	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking .....	1,048.99	
For Horizontal Jacking Through Rock, Add	474.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking .....	1,124.67	
<i>For Horizontal Jacking Through Rock, Add</i>	516.42	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge .....	2,992.11	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge .....	3,416.29	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge .....	4,551.52	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge .....	6,425.54	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

**33 05 07 24 Casing Piping for Utility Jacking (33 05 07)**

33 05 07 24-0001	Casing Pipe (33 05 07 24)	Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.	
33 05 07 24-0002	Steel Pipe (33 05 07 24-0001)		
33 05 07 24-0003	LF 1-1/2" Steel Pipe Pull In Place By Boring Machine .....		11.71
	Note: Includes pipe welding.		
33 05 07 24-0004	LF 2" Steel Pipe Pull In Place By Boring Machine .....		12.42
	Note: Includes pipe welding.		
33 05 07 24-0005	LF 2-1/2" Steel Pipe Pull In Place By Boring Machine .....		13.39
	Note: Includes pipe welding.		
33 05 07 24-0006	LF 3" Steel Pipe Pull In Place By Boring Machine .....		14.39
	Note: Includes pipe welding.		
33 05 07 24-0007	LF 4" Steel Pipe Pull In Place By Boring Machine .....		18.09
	Note: Includes pipe welding.		
33 05 07 24-0008	LF 5" Steel Pipe Pull In Place By Boring Machine .....		20.39
	Note: Includes pipe welding.		
33 05 07 24-0009	LF 6" Steel Pipe Pull In Place By Boring Machine .....		22.69
	Note: Includes pipe welding.		
33 05 07 24-0010	Polyethylene Pipe (33 05 07 24-0001)		
33 05 07 24-0011	LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine .....		4.56
	Note: Includes pipe welding.		
33 05 07 24-0012	LF 1" Polyethylene Pipe Pull In Place By Boring Machine .....		4.99
	Note: Includes pipe welding.		
33 05 07 24-0013	LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine .....		5.42
	Note: Includes pipe welding.		
33 05 07 24-0014	LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine .....		5.78
	Note: Includes pipe welding.		
33 05 07 24-0015	LF 2" Polyethylene Pipe Pull In Place By Boring Machine .....		6.19
	Note: Includes pipe welding.		
33 05 07 24-0016	LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine .....		6.62
	Note: Includes pipe welding.		
33 05 07 24-0017	LF 3" Polyethylene Pipe Pull In Place By Boring Machine .....		7.06
	Note: Includes pipe welding.		
33 05 07 24-0018	LF 4" Polyethylene Pipe Pull In Place By Boring Machine .....		8.58
	Note: Includes pipe welding.		
33 05 07 24-0019	LF 5" Polyethylene Pipe Pull In Place By Boring Machine .....		9.50
	Note: Includes pipe welding.		
33 05 07 24-0020	LF 6" Polyethylene Pipe Pull In Place By Boring Machine .....		10.43
	Note: Includes pipe welding.		
33 05 07 24-0021	LF 8" Polyethylene Pipe Pull In Place By Boring Machine .....		13.62
	Note: Includes pipe welding.		
33 05 07 24-0022	LF 10" Polyethylene Pipe Pull In Place By Boring Machine .....		18.56
	Note: Includes pipe welding.		

**33 05 09 Piping Specials for Utilities (33 05)**

- 33 05 09 13 Couplings for Utility Piping (33 05 09)**  
See CSI section 33 42 11 00-0058 for couplings.
- 33 05 09 23 Adapters for Utility Piping (33 05 09)**  
See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.
- 33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)**  
See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1154 for slip-on restraints, 33 14 13 13-1170 for slip-on restraint harnesses.

- 33 05 16 Cast-Iron Utility Pipe (33 05)**  
See CSI section 22 13 16 00-0019 for cast iron utility piping.
- 33 05 17 Copper Utility Pipe and Tubing (33 05)**  
See CSI section 33 14 13 39-0000 for copper utility piping.
- 33 05 19 Ductile-Iron Utility Pipe (33 05)**

**33 Utilities****33 05 Common Work Results For Utilities****33 05 19 Ductile-Iron Utility Pipe**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

		See CSI section 33 14 13 13-0000 for ductile iron utility piping.	
33 05 24	Steel Utility Pipe <sup>(33 05)</sup>		
33 05 24 23	<b>Steel Pipe for Water Service</b> <sup>(33 05 24)</sup>	See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.	
33 05 27	Corrugated Metal Utility Pipe <sup>(33 05)</sup>		
33 05 27 13	<b>Corrugated Metal Culvert Pipe</b> <sup>(33 05 27)</sup>	See CSI section 33 42 11 00-0538 for corrugated metal culvert pipe.	
33 05 27 33	<b>Corrugated Metal Slotted Pipe</b> <sup>(33 05 27)</sup>	See CSI section 33 41 16 13-0044 for corrugated metal slotted pipe.	
33 05 27 33	<b>Corrugated Metal Culvert Arch Pipe</b> <sup>(33 05 27)</sup>	See CSI section 33 42 11 00-0882 for corrugated metal culvert arch pipe.	
33 05 31	Thermoplastic Utility Pipe <sup>(33 05)</sup>		
33 05 31 11	<b>Polyvinyl Chloride Gravity Sewer Pipe</b> <sup>(33 05 31)</sup>	See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.	
33 05 31 13	<b>Polyvinyl Chloride Pressure Pipe</b> <sup>(33 05 31)</sup>	See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.	
33 05 31 16	<b>Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905)</b> <sup>(33 05 31)</sup>	See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.	
33 05 33	Polyethylene Utility Pipe <sup>(33 05)</sup>		
33 05 33 13	<b>Corrugated-Wall, Smooth Interior HDPE Gravity Pipe</b> <sup>(33 05 33)</sup>	See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.	
33 05 33 23	<b>Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)</b> <sup>(33 05 33)</sup>	See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.	
33 05 33 33	<b>Corrugated, Perforated HDPE Drainage Pipe</b> <sup>(33 05 33)</sup>	See CSI section 33 42 11 00-0271 for corrugated perforated HDPE drainage pipe.	
33 05 33 36	<b>Corrugated, Non-Perforated HDPE Drainage Pipe</b> <sup>(33 05 33)</sup>	See CSI section 33 42 11 00-0261 for corrugated non-perforated HDPE drainage pipe.	
33 05 33 63	<b>HDPE Communication Duct</b> <sup>(33 05 33)</sup>		
33 05 33 63-0001	ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine <sup>(33 05 33 63)</sup>	Note: Excludes boring.	
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		2.69
	For Up To 250, Add		0.07
	For >250 To 500, Add		0.05
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		2.98
	For Up To 250, Add		0.09
	For >250 To 500, Add		0.06
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		3.23
	For Up To 250, Add		0.10
	For >250 To 500, Add		0.07
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		3.54
	For Up To 250, Add		0.12
	For >250 To 500, Add		0.08
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		4.60
	For Up To 250, Add		0.24
	For >250 To 500, Add		0.16
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		5.71
	For Up To 250, Add		0.37
	For >250 To 500, Add		0.25
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		2.74
	For Up To 250, Add		0.08
	For >250 To 500, Add		0.05
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		3.07
	For Up To 250, Add		0.10
	For >250 To 500, Add		0.07
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		3.31
	For Up To 250, Add		0.11
	For >250 To 500, Add		0.07
33 05 33 63-0011	LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine		3.72
	For Up To 250, Add		0.14
	For >250 To 500, Add		0.10





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine .....	5.01	
<i>For Up To 250, Add</i>	0.31	
<i>For &gt;250 To 500, Add</i>	0.20	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine .....	6.23	
<i>For Up To 250, Add</i>	0.45	
<i>For &gt;250 To 500, Add</i>	0.30	
<b>33 05 39 Concrete Pipe</b> <small>(33 05)</small>		
<b>33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)</b> <small>(33 05 39)</small>		
<small>See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.</small>		
<b>33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts</b> <small>(33 05 39)</small>		
<small>See CSI section 33 42 11 00-0001 for reinforced concrete pipe.</small>		
<b>33 05 41 Vitrified Clay Utility Pipe</b> <small>(33 05)</small>		
<small>See CSI section 33 42 11 00-0405 for vitrified clay piping.</small>		
<b>33 05 61 Concrete Manholes</b> <small>(33 05)</small>		
<b>33 05 61 00-0001 Manholes</b> <small>(33 05 61)</small>		
<b>33 05 61 00-0002 Precast Concrete Manholes</b> <small>(33 05 61 00-0001)</small>		
<small>Note: Includes base, riser(s), reducer and openings. See CSI section 33 05 61 00-0002 for top slabs.</small>		
<b>33 05 61 00-0003 3' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole .....	1,116.65	240.24
<i>For Bitumastic Coating, Add</i>	45.65	
<i>For Epoxy Coating, Add</i>	87.24	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole .....	1,530.97	345.08
<i>For Bitumastic Coating, Add</i>	68.48	
<i>For Epoxy Coating, Add</i>	130.86	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole .....	2,093.81	524.18
<i>For Bitumastic Coating, Add</i>	91.30	
<i>For Epoxy Coating, Add</i>	174.48	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole .....	224.63	61.16
<small>Note: For depths greater than 8'.</small>		
<i>For Bitumastic Coating, Add</i>	11.41	
<i>For Epoxy Coating, Add</i>	21.81	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole .....	239.64	61.16
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole .....	364.56	61.16
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole .....	297.48	61.16
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole .....	411.73	61.16
<b>33 05 61 00-0012 4' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole .....	1,402.21	275.19
<i>For Bitumastic Coating, Add</i>	45.65	
<i>For Epoxy Coating, Add</i>	87.24	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole .....	1,878.20	375.66
<i>For Bitumastic Coating, Add</i>	68.48	
<i>For Epoxy Coating, Add</i>	130.86	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole .....	2,529.65	567.86
<i>For Bitumastic Coating, Add</i>	91.30	
<i>For Epoxy Coating, Add</i>	174.48	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole .....	278.39	72.08
<small>Note: For depths greater than 8'.</small>		
<i>For Bitumastic Coating, Add</i>	11.41	
<i>For Epoxy Coating, Add</i>	21.81	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole .....	298.41	72.08
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole .....	464.95	72.08
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole .....	375.52	72.08
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole .....	527.86	72.08
<b>33 05 61 00-0021 5' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole .....	2,475.78	305.77
<i>For Bitumastic Coating, Add</i>	58.82	
<i>For Epoxy Coating, Add</i>	140.64	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole .....	3,304.94	419.34
<i>For Bitumastic Coating, Add</i>	88.23	
<i>For Epoxy Coating, Add</i>	210.96	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole .....	4,328.55	629.02
<i>For Bitumastic Coating, Add</i>	117.64	
<i>For Epoxy Coating, Add</i>	281.27	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole .....	459.63	78.63
<small>Note: For depths greater than 8'.</small>		
<i>For Bitumastic Coating, Add</i>	14.71	
<i>For Epoxy Coating, Add</i>	35.16	

**33 Utilities****33 05 Common Work Results For Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 05 61 00-0026 6' Diameter, Precast Concrete Manholes</b> (33 05 61 00-0002)		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole .....	3,269.52	340.71
For Bitumastic Coating, Add	67.34	
For Epoxy Coating, Add	164.65	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole .....	4,274.72	463.02
For Bitumastic Coating, Add	101.01	
For Epoxy Coating, Add	246.97	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole .....	5,497.65	698.90
For Bitumastic Coating, Add	134.68	
For Epoxy Coating, Add	329.30	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole .....	552.31	87.36
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	16.84	
For Epoxy Coating, Add	41.16	
<b>33 05 61 00-0031 7' Diameter, Precast Concrete Manholes</b> (33 05 61 00-0002)		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole .....	5,035.63	375.66
For Bitumastic Coating, Add	143.20	
For Epoxy Coating, Add	287.71	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole .....	6,531.43	512.38
For Bitumastic Coating, Add	214.80	
For Epoxy Coating, Add	431.57	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole .....	8,266.61	768.79
For Bitumastic Coating, Add	286.41	
For Epoxy Coating, Add	575.42	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole .....	803.38	96.10
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	35.80	
For Epoxy Coating, Add	71.93	
<b>33 05 61 00-0036 8' Diameter, Precast Concrete Manholes</b> (33 05 61 00-0002)		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole .....	7,205.49	432.45
For Bitumastic Coating, Add	169.30	
For Epoxy Coating, Add	350.70	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole .....	9,364.33	589.70
For Bitumastic Coating, Add	253.95	
For Epoxy Coating, Add	526.04	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole .....	11,798.35	884.55
For Bitumastic Coating, Add	338.59	
For Epoxy Coating, Add	701.39	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole .....	1,140.56	109.20
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	42.32	
For Epoxy Coating, Add	87.67	
<b>33 05 63 Concrete Vaults and Chambers</b> (33 05)		
<b>33 05 63 00-0001 Underground Utility Vaults And Structures</b> (33 05 63)		
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
<b>33 05 63 00-0002 Precast Concrete Underground Utility Vault</b> (33 05 63 00-0001)		
Note: Sizes given are for inside dimensions.		
<b>33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault</b> (33 05 63 00-0002)		
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault .....	3,119.44	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault .....	4,066.20	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault .....	6,708.18	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault .....	7,745.78	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault .....	5,196.35	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault .....	6,325.62	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault .....	7,455.79	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault .....	10,772.14	
Note: 8" thick walls and top.		
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault .....	10,772.14	
Note: 8" thick walls and top.		
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault .....	13,563.85	
Note: 8" thick walls and top.		
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault .....	7,639.20	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault .....	8,951.91	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault .....	12,795.98	
Note: 8" thick walls and top.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	14,401.75	
<b>33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault</b> <small>(33 05 63 00-0002)</small>		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	3,434.12	
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	4,459.10	
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	5,484.06	
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	7,297.11	
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,413.78	
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	5,667.47	
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	6,875.89	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,084.26	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	11,714.38	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	14,715.57	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,267.65	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	9,658.61	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	13,843.47	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	15,552.61	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	14,052.32	
<b>33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault</b> <small>(33 05 63 00-0002)</small>		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	3,747.90	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	4,851.98	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	7,886.01	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	9,080.92	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	6,138.60	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	7,425.23	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,711.87	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	12,656.60	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	15,867.35	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,895.25	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	10,365.28	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	14,890.01	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	16,704.37	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	15,099.50	
<b>33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault</b> <small>(33 05 63 00-0002)</small>		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	6,609.75	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	7,974.58	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault ..... Note: 8" thick walls and top.	16,146.00	
<b>33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault</b> <small>(33 05 63 00-0002)</small>		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	7,080.87	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault ..... Note: 6" thick walls and 8" thick top.	8,524.82	

**33 Utilities****33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0056			<b>Meter Pit</b> <small>(33 05 63 00-0001)</small>		
33 05 63 00-0057			<b>Precast Concrete Meter Pit</b> <small>(33 05 63 00-0056)</small>		
33 05 63 00-0058	EA		4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,173.78	
33 05 63 00-0059	EA		4' x 4' x 6' Deep Precast Concrete Meter Pit.....	2,911.04	
33 05 63 00-0060	EA		4' x 4' x 8' Deep Precast Concrete Meter Pit.....	3,602.14	
33 05 63 00-0061	EA		4' x 4' x 10' Deep Precast Concrete Meter Pit.....	4,432.53	
33 05 63 00-0062	EA		4' x 4' x 15' Deep Precast Concrete Meter Pit.....	6,021.56	
33 05 63 00-0063	EA		6' x 6' x 4' Deep Precast Concrete Meter Pit.....	3,262.23	
33 05 63 00-0064	EA		6' x 6' x 6' Deep Precast Concrete Meter Pit.....	4,432.53	
33 05 63 00-0065	EA		6' x 6' x 8' Deep Precast Concrete Meter Pit.....	5,660.23	
33 05 63 00-0066	EA		6' x 6' x 10' Deep Precast Concrete Meter Pit.....	7,063.36	
33 05 63 00-0067	EA		6' x 6' x 15' Deep Precast Concrete Meter Pit.....	9,824.98	
33 05 63 00-0068			<b>Handhole Or Pull Box Enclosures</b> <small>(33 05 63 00-0001)</small>		
33 05 63 00-0069			<b>Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0068)</small>		
33 05 63 00-0070			<b>Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0069)</small>		
33 05 63 00-0071			<b>Flared Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0070)</small>		
33 05 63 00-0072			<b>Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0071)</small>		
33 05 63 00-0073	EA		12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	223.98	19.90
33 05 63 00-0074	EA		10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	202.26	44.17
33 05 63 00-0075	EA		13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	308.42	66.25
33 05 63 00-0076	EA		17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	354.96	66.25
33 05 63 00-0077	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	339.59	66.25
33 05 63 00-0078	EA		13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	406.71	66.25
33 05 63 00-0079	EA		17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	396.58	66.25
33 05 63 00-0080	EA		17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	532.50	66.25
33 05 63 00-0081	EA		27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	754.42	88.34
33 05 63 00-0082	EA		27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,046.93	88.34
33 05 63 00-0083	EA		24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	698.49	121.46
33 05 63 00-0084	EA		24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	790.10	121.46
33 05 63 00-0085	EA		24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,266.62	121.46
33 05 63 00-0086	EA		39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	746.83	132.50
33 05 63 00-0087	EA		39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,046.89	132.50
33 05 63 00-0088	EA		39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,292.26	132.50
33 05 63 00-0089	EA		39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,872.61	132.50
33 05 63 00-0090	EA		30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,067.71	194.65
33 05 63 00-0091	EA		30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,519.31	194.65
33 05 63 00-0092			<b>Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093	EA		12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	284.78	19.90
33 05 63 00-0094	EA		13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	380.84	66.25
33 05 63 00-0095	EA		17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	455.75	66.25
33 05 63 00-0096	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	422.22	66.25
33 05 63 00-0097	EA		13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	479.59	66.25
33 05 63 00-0098	EA		17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	494.63	66.25
33 05 63 00-0099	EA		17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	631.40	66.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	852.48	121.46
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	944.08	121.46
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	1,420.63	121.46
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	1,247.66	194.65
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	1,702.69	194.65
<b>33 05 63 00-0105</b> Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
<b>33 05 63 00-0106</b> Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	363.03	19.90
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	308.00	19.90
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	267.81	66.25
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	300.28	66.25
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	90.62	19.90
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	136.64	19.90
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	216.51	19.90
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	226.18	19.90
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	198.89	44.17
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	213.72	44.17
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	134.66	19.90
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	152.77	19.90
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	212.18	44.17
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	237.10	44.17
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	220.97	44.17
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	269.32	66.25
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	293.77	66.25
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	311.95	66.25
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	339.34	66.25
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	393.95	66.25
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	427.07	66.25
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	463.32	66.25
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	486.12	66.25
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	582.60	88.34
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	599.26	121.46
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	758.02	121.46
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	904.61	121.46
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	997.18	121.46
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,089.26	121.46
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,243.90	194.65
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	919.36	194.65
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,036.94	194.65
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,261.77	194.65
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,259.46	194.65
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,343.39	194.65
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,504.79	194.65
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,391.77	208.57



**33 Utilities****33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,505.73	208.57
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,651.22	208.57
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,709.43	208.57
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,729.66	208.57
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,951.34	208.57
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,520.83	208.57
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,987.93	208.57
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,234.39	222.47
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,742.60	222.47
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,500.00	222.47
<b>33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>				
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	352.11	66.25
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	400.28	66.25
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	148.35	19.90
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	211.25	19.90
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	280.77	19.90
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	290.45	19.90
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	262.19	44.17
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	272.51	44.17
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	286.31	44.17
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	197.61	19.90
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	232.24	19.90
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	285.97	44.17
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	310.90	44.17
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	295.55	44.17
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	351.65	66.25
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	376.40	66.25
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	410.20	66.25
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	437.41	66.25
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	491.86	66.25
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	525.13	66.25
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	561.22	66.25
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	584.17	66.25
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	718.05	88.34
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	753.26	121.46
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	911.83	121.46
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,058.26	121.46
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,150.69	121.46
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,243.08	121.46
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,097.61	194.65
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,215.36	194.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,440.02	194.65
<b>33 05 63 00-0186</b> Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	325.20	66.25
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	374.70	66.25
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	111.55	19.90
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	178.94	19.90
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	253.88	19.90
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	263.74	19.90
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	244.49	44.17
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	273.18	44.17
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	157.48	19.90
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	258.59	44.17
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	294.33	44.17
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	267.88	44.17
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	347.86	66.25
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	396.72	66.25
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	412.97	66.25
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	451.67	66.25
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	487.26	66.25
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	520.87	66.25
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	581.05	66.25
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	589.43	66.25
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	728.55	88.34
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	766.87	121.46
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	941.99	121.46
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,115.18	121.46
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,230.21	121.46
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,345.25	121.46
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,458.22	194.65
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,133.70	194.65
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,260.45	194.65
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,485.13	194.65
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,584.23	194.65
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,615.26	194.65
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,916.32	194.65
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,785.74	208.57
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,844.63	208.57
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,011.65	208.57
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,138.07	208.57
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,969.09	208.57
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,421.20	208.57
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,109.85	208.57
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,312.71	208.57
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,792.37	222.47

**33 Utilities****33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,300.79	222.47
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,429.06	222.47
<b>33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>				
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	409.49	66.25
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	474.90	66.25
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	168.82	19.90
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	253.40	19.90
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	318.01	19.90
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	328.00	19.90
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	318.28	44.17
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	346.80	44.17
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	239.32	19.90
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	332.05	44.17
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	367.79	44.17
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	321.39	44.17
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	430.52	66.25
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	479.39	66.25
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	511.03	66.25
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	549.74	66.25
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	585.32	66.25
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	618.94	66.25
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	679.13	66.25
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	687.49	66.25
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	863.83	88.34
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	920.86	121.46
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,095.82	121.46
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,268.82	121.46
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,383.94	121.46
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,499.06	121.46
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,312.11	194.65
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,439.03	194.65
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,663.55	194.65
<b>33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>				
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	345.75	66.25
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	233.33	44.17
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	260.88	44.17
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	309.98	66.25
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	242.35	44.17
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	268.75	44.17
<b>33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions</b> <small>(33 05 63 00-0069)</small>				
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	258.67	66.25
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	287.39	66.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	334.01	88.34
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	362.21	88.34
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	434.82	121.46
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	752.09	194.65
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	721.26	194.65
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	727.99	194.65
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	965.83	208.57
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	1,500.45	222.47
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	1,948.29	222.47
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	409.37	66.25
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	426.91	66.25
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	462.57	88.34
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	491.07	88.34
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	575.82	121.46
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	920.51	194.65
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	323.60	66.25
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	358.20	66.25
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	484.47	121.46
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	932.82	208.57
<b>33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)</b>		
<b>33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	87.17	8.85
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	88.28	8.85
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	81.96	8.85
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	88.50	8.85
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	89.34	8.84
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	102.22	8.84
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	118.15	8.84
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	766.75	25.03
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	671.76	25.03
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,002.62	25.03
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,013.90	25.03
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,147.77	25.03
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,250.02	25.03
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	2,004.99	25.03
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	74.94	8.84
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	106.55	8.84
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	108.02	8.84
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	135.42	8.84
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	102.63	8.84
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	159.85	8.84
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover .....	125.91	8.84
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	256.41	8.84
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	225.84	13.25
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	282.32	13.25
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	363.53	15.46
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	509.15	19.47
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	529.52	37.08
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	137.06	8.84
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	194.62	8.84
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	221.19	8.84
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	366.54	8.84
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	303.49	13.25
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	511.43	15.46
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	669.36	19.47
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	902.93	25.03
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	803.41	25.03
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,119.89	25.03
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,456.47	25.03
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,395.07	25.03
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,114.60	25.03



**33 Utilities****33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,263.05	25.03
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	179.71	8.84
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	196.34	8.84
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	257.92	8.84
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	293.66	8.84
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	506.22	8.84
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	369.30	13.25
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	503.87	13.25
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	780.15	15.46
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	892.38	19.47
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	928.83	37.08
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,074.28	25.03
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,497.42	25.03
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,092.58	25.03
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,867.97	25.03
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	3,091.72	25.03
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	4,768.88	25.03
<b>33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)</b>		
33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	99.83	8.85
33 05 63 00-0351 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	105.40	8.85
33 05 63 00-0352 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	107.22	8.84
33 05 63 00-0353 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	107.90	8.84
33 05 63 00-0354 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	124.23	8.84
33 05 63 00-0355 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	80.07	8.84
33 05 63 00-0356 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	111.81	8.84
33 05 63 00-0357 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	112.83	8.84
33 05 63 00-0358 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	140.84	8.84
33 05 63 00-0359 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket .....	108.53	8.84
33 05 63 00-0360 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket .....	132.15	8.84
33 05 63 00-0361 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	165.59	8.84
33 05 63 00-0362 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	229.69	13.25
33 05 63 00-0363 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	288.24	13.25
33 05 63 00-0364 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	535.60	37.08
33 05 63 00-0365 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	67.01	8.85
33 05 63 00-0366 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	103.66	8.85
33 05 63 00-0367 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	115.08	8.85
33 05 63 00-0368 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	110.01	8.85
33 05 63 00-0369 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	90.98	8.84
33 05 63 00-0370 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	142.31	8.84
33 05 63 00-0371 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	154.17	8.84
33 05 63 00-0372 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	200.20	8.84
33 05 63 00-0373 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	227.25	8.84
33 05 63 00-0374 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	308.91	13.25
33 05 63 00-0375 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	384.97	13.25
33 05 63 00-0376 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	703.67	37.08
<b>33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)</b>		
33 05 63 00-0378 EA 6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	54.41	8.85
33 05 63 00-0379 EA 7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	64.27	8.85
33 05 63 00-0380 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	77.54	8.85
33 05 63 00-0381 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	83.44	8.85
33 05 63 00-0382 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	83.28	8.84
33 05 63 00-0383 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	98.40	8.84
33 05 63 00-0384 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	113.25	8.84
33 05 63 00-0385 EA 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	272.64	13.25
33 05 63 00-0386 EA 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	507.40	37.08
33 05 63 00-0387 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	758.45	25.03
33 05 63 00-0388 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	662.39	25.03
33 05 63 00-0389 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	987.19	25.03
33 05 63 00-0390 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	952.85	25.03
33 05 63 00-0391 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,138.81	25.03
33 05 63 00-0392 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,216.94	25.03
33 05 63 00-0393 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,941.41	25.03
33 05 63 00-0394 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	72.13	8.84
33 05 63 00-0395 EA 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	70.49	8.84
33 05 63 00-0396 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	103.00	8.84
33 05 63 00-0397 EA 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	112.96	8.84
33 05 63 00-0398 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	127.55	8.84
33 05 63 00-0399 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	97.54	8.84
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	108.53	8.84
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	152.96	8.84
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	221.37	13.25
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	275.71	13.25
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	272.48	13.25
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	488.98	19.47





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 05 63 00-0406	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	507.40	22.25
<b>33 05 63 00-0407</b>	<b>Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>					
	33 05 63 00-0408	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	789.40	25.03
	33 05 63 00-0409	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	1,139.96	25.03
	33 05 63 00-0410	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	662.67	37.08
	33 05 63 00-0411	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	876.67	37.08
	33 05 63 00-0412	EA		30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	936.60	25.03
	33 05 63 00-0413	EA		36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	1,273.99	25.03
<b>33 05 63 00-0414</b>	<b>Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>					
	33 05 63 00-0415	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	309.01	13.25
	33 05 63 00-0416	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	572.29	19.47
	33 05 63 00-0417	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	598.90	37.08
	33 05 63 00-0418	EA		6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	51.66	8.85
	33 05 63 00-0419	EA		8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	83.96	8.85
	33 05 63 00-0420	EA		12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	92.13	8.85
	33 05 63 00-0421	EA		8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	97.54	8.85
	33 05 63 00-0422	EA		10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	85.90	8.84
	33 05 63 00-0423	EA		11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	149.36	8.84
	33 05 63 00-0424	EA		24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	412.76	13.25
	33 05 63 00-0425	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	759.41	19.47
	33 05 63 00-0426	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	796.34	37.08
<b>33 05 63 00-0427</b>	<b>Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)</b>					
	Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).					
	33 05 63 00-0428	EA		12" x 12" x 12" Precast Concrete Handholes With Steel Cover .....	696.23	199.05
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					18.00	
	33 05 63 00-0429	EA		12" x 24" x 21" Precast Concrete Handholes With Steel Cover .....	1,165.79	298.58
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					94.04	
	33 05 63 00-0430	EA		18" x 30" x 18" Precast Concrete Handholes With Steel Cover .....	1,417.70	398.11
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					161.47	
	33 05 63 00-0431	EA		24" x 24" x 24" Precast Concrete Handholes With Steel Cover .....	1,470.75	398.11
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					202.17	
	33 05 63 00-0432	EA		24" x 24" x 30" Precast Concrete Handholes With Steel Cover .....	1,732.77	497.64
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					241.82	
	33 05 63 00-0433	EA		30" x 36" x 30" Precast Concrete Handholes With Steel Cover .....	1,821.03	497.64
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					270.21	
	33 05 63 00-0434	EA		36" x 36" x 48" Precast Concrete Handholes With Steel Cover .....	2,106.72	597.15
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					314.25	
	33 05 63 00-0435	EA		48" x 48" x 48" Precast Concrete Handholes With Steel Cover .....	2,420.33	696.68
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					451.69	
	33 05 63 00-0436	EA		48" x 72" x 36" Precast Concrete Handholes With Steel Cover .....	2,368.29	597.15
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					503.57	
	33 05 63 00-0437	EA		54" x 38" x 24" Precast Concrete Handholes With Steel Cover .....	2,390.78	597.15
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					333.37	
	33 05 63 00-0438	EA		6" Diameter Precast Concrete Handholes With Steel Cover .....	552.22	199.05
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					15.00	
	33 05 63 00-0439	EA		9" Diameter Precast Concrete Handholes With Steel Cover .....	649.37	223.93
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					15.00	
	33 05 63 00-0440	EA		12" Diameter Precast Concrete Handholes With Steel Cover .....	793.89	248.82
	Note: 8000 To 12000 pound traffic rated top.					
	For 15,000 to 22,500 Pound Traffic Rated Top, Add					
					15.00	
<b>33 05 81</b>	<b>Metallic Castings for Utility Structures (33 05)</b>					
<b>33 05 81 00-0001</b>	<b>Manhole Accessories (33 05 81)</b>					
<b>33 05 81 00-0002</b>	<b>Steps For Cast-In-Place Manholes (33 05 81 00-0001)</b>					
	See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.					
	33 05 81 00-0003	EA		Cast Iron Manhole Step For New Manholes .....	69.38	
	33 05 81 00-0004	EA		Galvanized Steel Manhole Step For New Manholes .....	45.78	
	33 05 81 00-0005	EA		Aluminum Manhole Step For New Manholes .....	64.07	
<b>33 05 81 00-0006</b>	<b>Manhole Covers And Frames (33 05 81)</b>					
	Note: Includes moisture-tight masonry joints and waterproof grouting.					

**33 Utilities****33 05 Common Work Results For Utilities****33 05 81 Metallic Castings for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 05 81 00-0007 Regular Manhole Covers And Frames</b> (33 05 81 00-0006)		
33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame.....	1,031.20	75.13
For Ductile Iron Castings, Add	562.84	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame.....	617.44	75.13
For Ductile Iron Castings, Add	273.20	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame.....	713.34	87.36
For Ductile Iron Castings, Add	315.88	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame.....	1,075.26	96.97
For Ductile Iron Castings, Add	548.84	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame.....	937.76	104.84
For Ductile Iron Castings, Add	435.40	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame.....	977.63	109.20
For Ductile Iron Castings, Add	455.03	
33 05 81 00-0014 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard.....	846.61	96.97
For Ductile Iron Castings, Add	388.78	
<b>33 05 81 00-0015 Watertight Type Manhole Covers And Frames</b> (33 05 81 00-0006)		
33 05 81 00-0016 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,134.78	62.02
For Ductile Iron Castings, Add	621.52	
33 05 81 00-0017 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,158.02	62.02
For Ductile Iron Castings, Add	623.55	
33 05 81 00-0018 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,187.87	72.51
For Ductile Iron Castings, Add	627.66	
33 05 81 00-0019 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,403.10	81.25
For Ductile Iron Castings, Add	761.14	
33 05 81 00-0020 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,611.22	83.00
For Ductile Iron Castings, Add	898.54	
33 05 81 00-0021 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,691.07	84.74
For Ductile Iron Castings, Add	951.43	
33 05 81 00-0022 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	1,762.84	87.36
For Ductile Iron Castings, Add	998.54	
<b>33 05 81 00-0023 Aluminum Manhole Covers And Frames</b> (33 05 81 00-0006)		
33 05 81 00-0024 EA 12" Square Aluminum Manhole Cover With Frame.....	749.24	25.67
33 05 81 00-0025 EA 18" Square Aluminum Manhole Cover With Frame.....	1,358.27	28.42
33 05 81 00-0026 EA 24" Square Aluminum Manhole Cover With Frame.....	1,942.52	32.99
<b>33 05 81 00-0027 Remove And Reinstall Manhole Cover And Frame</b> (33 05 81 00-0006)		
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0028 EA Removal And Reinstallation Of Manhole Cover And Frame .....	350.28	
<b>33 05 81 00-0029 Adjust Frame And Cover To Grade (Monterey County)</b> (33 05 81 00-0006)		
33 05 81 00-0030 EA Adjust Frame And Cover To Grade (Monterey County).....	570.82	
<b>33 05 83 Non-Metallic Accessories for Utility Structures</b> (33 05)		
<b>33 05 83 00-0001 Manhole Accessories</b> (33 05 83)		
<b>33 05 83 00-0002 Steps For Cast-In-Place Manholes</b> (33 05 83 00-0001)		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes .....	50.99	
<b>33 05 83 00-0004 Rainguard Inflow Protectors</b> (33 05 83)		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	130.05	18.77
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	157.01	18.77
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	187.54	22.52
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	204.58	22.52
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	257.53	26.27
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	278.45	26.27
<b>33 05 84 Accessories for Utility Structures</b> (33 05)		
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 05 84 00-0001 Manhole Accessories</b> (33 05 84)		
<b>33 05 84 00-0002 Precast Concrete Manhole Tops</b> (33 05 84 00-0001)		
<b>33 05 84 00-0003 Precast Concrete Manhole Slab Tops</b> (33 05 84 00-0002)		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab .....	459.86	65.52
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab .....	635.37	70.77
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab .....	852.09	76.00
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab .....	1,016.70	81.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 05 84 00-0008</b> <b>Precast Concrete Manhole Cone Tops</b> <small>(33 05 84 00-0002)</small>		
33 05 84 00-0009    EA    3' Diameter x 8" Thick Precast Manhole Top Cone.....	723.17	81.91
33 05 84 00-0010    EA    3'-6" Diameter x 8" Thick Precast Manhole Top Cone .....	802.18	85.18
33 05 84 00-0011    EA    4' Diameter x 8" Thick Precast Manhole Top Cone.....	881.23	88.45
33 05 84 00-0012    EA    5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,034.90	93.92
33 05 84 00-0013    EA    6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,192.97	100.47
33 05 84 00-0014    EA    7' Diameter x 8" Thick Precast Manhole Top Cone.....	1,870.85	107.02
33 05 84 00-0015    EA    8' Diameter x 10" Thick Precast Manhole Top Cone.....	2,343.45	117.94
<b>33 05 84 00-0016</b> <b>Pipe To Manhole Connector</b> <small>(33 05 84 00-0001)</small>		
<b>33 05 84 00-0017</b> <b>Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors</b> <small>(33 05 84 00-0016)</small>		
33 05 84 00-0018    EA    4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	73.18	
33 05 84 00-0019    EA    6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	107.44	
33 05 84 00-0020    EA    8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	121.14	
33 05 84 00-0021    EA    10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	182.76	
33 05 84 00-0022    EA    12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	255.20	
33 05 84 00-0023    EA    15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	337.97	
33 05 84 00-0024    EA    18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	607.58	
33 05 84 00-0025    EA    21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	843.51	
33 05 84 00-0026    EA    24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,329.11	
33 05 84 00-0027    EA    27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,565.42	
<b>33 05 84 00-0028</b> <b>Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout</b> <small>(33 05 84 00-0016)</small> Note: Fernco CMA.		
33 05 84 00-0029    EA    4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout .....	82.63	
33 05 84 00-0030    EA    6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout .....	113.91	
33 05 84 00-0031    EA    8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout .....	143.65	
33 05 84 00-0032    EA    10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout .....	173.29	
33 05 84 00-0033    EA    12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout .....	201.22	
<b>33 05 84 00-0034</b> <b>Brick And Grout Pipe To Manhole Connector</b> <small>(33 05 84 00-0016)</small>		
33 05 84 00-0035    EA    Seal Gap Between Pipe And Structure With Brick And Grout.....	225.80	
<b>33 05 84 00-0036</b> <b>Inverts For Manholes</b> <small>(33 05 84 00-0001)</small>		
33 05 84 00-0037    EA    Single Channel Concrete Invert For Manholes .....	386.54	
33 05 84 00-0038    EA    Double Channel Concrete Invert For Manholes .....	557.76	
33 05 84 00-0039    EA    Triple Channel Concrete Invert For Manholes .....	751.10	
33 05 84 00-0040    EA    Quad Channel Concrete Invert For Manholes.....	944.38	
33 05 84 00-0041    EA    Single Channel Brick Invert For Manholes.....	561.06	
33 05 84 00-0042    EA    Double Channel Brick Invert For Manholes.....	840.00	
33 05 84 00-0043    EA    Triple Channel Brick Invert For Manholes.....	1,123.76	
33 05 84 00-0044    EA    Quad Channel Brick Invert For Manholes .....	1,404.23	
<b>33 05 84 00-0045</b> <b>Protective Coating For New Manholes</b> <small>(33 05 84 00-0001)</small>		
<b>33 05 84 00-0046</b> <b>Polyurethane Protective Coating For New Manholes</b> <small>(33 05 84 00-0045)</small>		
33 05 84 00-0047    VLF    60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior .....	151.65	
For 80 Mil Material, Add	20.47	
For 100 Mil Material, Add	40.94	
For 125 Mil Material, Add	64.34	
For 150 Mil Material, Add	87.75	
For 200 Mil Material, Add	128.73	
For 2 To 5 Manholes, Deduct	-10.49	
For 6 To 10 Manholes, Deduct	-17.20	
For >10 Manholes, Deduct	-34.39	
33 05 84 00-0048    VLF    60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior .....	183.43	
For 80 Mil Material, Add	24.38	
For 100 Mil Material, Add	48.76	
For 125 Mil Material, Add	76.57	
For 150 Mil Material, Add	104.37	
For 200 Mil Material, Add	152.87	
For 2 To 5 Manholes, Deduct	-12.73	
For 6 To 10 Manholes, Deduct	-20.87	
For >10 Manholes, Deduct	-41.75	
33 05 84 00-0049    VLF    60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior .....	202.20	
For 80 Mil Material, Add	27.29	
For 100 Mil Material, Add	54.59	
For 125 Mil Material, Add	85.79	
For 150 Mil Material, Add	117.00	
For 200 Mil Material, Add	171.65	
For 2 To 5 Manholes, Deduct	-13.99	
For 6 To 10 Manholes, Deduct	-22.93	
For >10 Manholes, Deduct	-45.86	

**33 Utilities****33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0050 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior .....	252.78	
For 80 Mil Material, Add	34.13	
For 100 Mil Material, Add	68.26	
For 125 Mil Material, Add	107.28	
For 150 Mil Material, Add	146.30	
For 200 Mil Material, Add	214.64	
For 2 To 5 Manholes, Deduct	-17.49	
For 6 To 10 Manholes, Deduct	-28.66	
For >10 Manholes, Deduct	-57.32	
33 05 84 00-0051 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior .....	292.98	
For 80 Mil Material, Add	40.18	
For 100 Mil Material, Add	80.35	
For 125 Mil Material, Add	126.40	
For 150 Mil Material, Add	172.45	
For 200 Mil Material, Add	253.41	
For 2 To 5 Manholes, Deduct	-20.21	
For 6 To 10 Manholes, Deduct	-33.10	
For >10 Manholes, Deduct	-66.20	
<b>33 05 84 00-0052 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0045)</b>		
Note: For new manholes and shop applied.		
33 05 84 00-0053 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	165.55	
33 05 84 00-0054 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole .....	202.93	
33 05 84 00-0055 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	247.66	
33 05 84 00-0056 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	311.02	
33 05 84 00-0057 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	374.38	
33 05 84 00-0058 SF Polyvinyl Chloride (PVC) Liner At Structures .....	35.36	
<b>33 05 84 00-0059 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)</b>		
<b>33 05 84 00-0060 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0059)</b>		
33 05 84 00-0061 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings .....	69.69	
33 05 84 00-0062 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	75.76	
33 05 84 00-0063 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	81.84	
33 05 84 00-0064 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	87.91	
<b>33 05 84 00-0065 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0059)</b>		
33 05 84 00-0066 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	78.19	
33 05 84 00-0067 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	85.10	
33 05 84 00-0068 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	92.00	
33 05 84 00-0069 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	98.90	
<b>33 05 84 00-0070 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0059)</b>		
33 05 84 00-0071 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	86.53	
33 05 84 00-0072 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	94.23	
33 05 84 00-0073 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	101.92	
33 05 84 00-0074 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	109.62	
<b>33 05 84 00-0075 Bentonite Collar (33 05 84 00-0001)</b>		
<b>33 05 84 00-0076 Bentonite Collar At Manhole Connections (33 05 84 00-0075)</b>		
33 05 84 00-0077 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection .....	114.39	
33 05 84 00-0078 EA >12" To 21", Bentonite Collar At Manhole Connection.....	181.45	
33 05 84 00-0079 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection.....	289.92	
33 05 84 00-0080 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection.....	680.43	
33 05 84 00-0081 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection.....	1,045.29	
33 05 84 00-0082 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection.....	1,893.34	
<b>33 05 84 00-0083 Waste Water Collection System Taps (33 05 84)</b>		
Note: For tapping existing structures only. Includes grout.		
<b>33 05 84 00-0084 Brick Manhole Taps (33 05 84 00-0083)</b>		
33 05 84 00-0085 EA 4" Tap In 6" Brick Manhole.....	431.98	
33 05 84 00-0086 EA 6" Tap In 6" Brick Manhole.....	482.49	
33 05 84 00-0087 EA 8" Tap In 6" Brick Manhole.....	532.09	
33 05 84 00-0088 EA 10" Tap In 6" Brick Manhole.....	581.60	
33 05 84 00-0089 EA 12" Tap In 6" Brick Manhole.....	641.91	
33 05 84 00-0090 EA 15" Tap In 6" Brick Manhole.....	691.31	
<b>33 05 84 00-0091 Precast Concrete Manhole Tap (33 05 84 00-0083)</b>		
33 05 84 00-0092 EA 4" Tap In Existing Precast Concrete Manhole.....	623.99	
33 05 84 00-0093 EA 6" Tap In Existing Precast Concrete Manhole.....	699.75	
33 05 84 00-0094 EA 8" Tap In Existing Precast Concrete Manhole.....	781.32	
33 05 84 00-0095 EA 10" Tap In Existing Precast Concrete Manhole.....	855.60	
33 05 84 00-0096 EA 12" Tap In Existing Precast Concrete Manhole.....	929.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 05 84 00-0097	EA	15" Tap In Existing Precast Concrete Manhole.....	1,005.62
33 05 84 00-0098	EA	18" Tap In Existing Precast Concrete Manhole.....	1,153.05
33 05 84 00-0099	EA	24" Tap In Existing Precast Concrete Manhole.....	1,479.28

### 33 05 97 Identification and Signage for Utilities (33 05)

#### 33 05 97 16 Markers for Utility Identification (33 05 97)

##### 33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)

33 05 97 16-0002	EA	Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	38.11
33 05 97 16-0003	EA	Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	40.19
33 05 97 16-0004	EA	Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	44.33
33 05 97 16-0005	EA	Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square.....	46.40
33 05 97 16-0006	EA	Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	48.48
33 05 97 16-0007	EA	Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square.....	42.78
33 05 97 16-0008	EA	Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	38.63
33 05 97 16-0009	EA	Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	40.70
33 05 97 16-0010	EA	Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	40.70
33 05 97 16-0011	EA	Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	42.78
33 05 97 16-0012	EA	Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	44.85
33 05 97 16-0013	EA	Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	46.92
33 05 97 16-0014	EA	Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.58
33 05 97 16-0015	EA	Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	46.40
33 05 97 16-0016	EA	Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	68.17
33 05 97 16-0017	EA	Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.58
33 05 97 16-0018	EA	Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	67.65
33 05 97 16-0019	EA	Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	68.17
33 05 97 16-0020	EA	Relocate Delineator.....	50.43

##### 33 05 97 16-0021 Reference Markers (33 05 97 16)

33 05 97 16-0022	EA	Reference Marker, 4' Mounting Height.....	58.03
33 05 97 16-0023	EA	Reference Marker, 7' Mounting Height.....	68.38
33 05 97 16-0024	EA	Reference Marker, Band Or Bracket Mounted.....	65.36
33 05 97 16-0025	EA	Reference Marker, Furnish Panel Only.....	44.43
33 05 97 16-0026	EA	Relocate Reference Marker.....	50.43

##### 33 05 97 16-0027 Object Markers (33 05 97 16)

33 05 97 16-0028	EA	Object Marker, Type L-1.....	64.47
33 05 97 16-0029	EA	Object Marker, Type L-2.....	60.15
33 05 97 16-0030	EA	Object Marker, Type K-1.....	67.92
33 05 97 16-0031	EA	Object Marker, Type K-2.....	63.60
33 05 97 16-0032	EA	Object Marker, Type Q.....	46.35

## 33 10 Water Utilities (33)

### 33 11 Groundwater Sources (33 10)

#### 33 11 13 Potable Water Supply Wells (33 11)

##### 33 11 13 00-0001 Drill And Test Water Well (33 11 13)

##### 33 11 13 00-0002 Drill Hole (33 11 13 00-0001)

Note: Excludes loading and hauling of spoils.

##### 33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)

33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	786.41
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	973.34
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,460.01

##### 33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)

Note: Excludes well casing, gravel or materials.

33 11 13 00-0008	LF	Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	18.86
		For >100 To 250, Add	0.47
		For >250 To 400, Add	0.94
		For >400 To 600, Add	1.41
		For >600 To 750, Add	1.89
		For >750, Add	2.36



<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	22.39	
		<i>For &gt;100 To 250, Add</i>	0.56	
		<i>For &gt;250 To 400, Add</i>	1.12	
		<i>For &gt;400 To 600, Add</i>	1.68	
		<i>For &gt;600 To 750, Add</i>	2.24	
		<i>For &gt;750, Add</i>	2.80	
33 11 13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	29.93	
		<i>For &gt;100 To 250, Add</i>	0.75	
		<i>For &gt;250 To 400, Add</i>	1.50	
		<i>For &gt;400 To 600, Add</i>	2.24	
		<i>For &gt;600 To 750, Add</i>	2.99	
		<i>For &gt;750, Add</i>	3.74	
33 11 13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	46.84	
		<i>For &gt;100 To 250, Add</i>	1.17	
		<i>For &gt;250 To 400, Add</i>	2.34	
		<i>For &gt;400 To 600, Add</i>	3.51	
		<i>For &gt;600 To 750, Add</i>	4.68	
		<i>For &gt;750, Add</i>	5.86	
33 11 13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	67.41	
		<i>For &gt;100 To 250, Add</i>	1.69	
		<i>For &gt;250 To 400, Add</i>	3.37	
		<i>For &gt;400 To 600, Add</i>	5.06	
		<i>For &gt;600 To 750, Add</i>	6.74	
		<i>For &gt;750, Add</i>	8.43	
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	88.09	
		<i>For &gt;100 To 250, Add</i>	2.20	
		<i>For &gt;250 To 400, Add</i>	4.40	
		<i>For &gt;400 To 600, Add</i>	6.61	
		<i>For &gt;600 To 750, Add</i>	8.81	
		<i>For &gt;750, Add</i>	11.01	
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	104.64	
		<i>For &gt;100 To 250, Add</i>	2.62	
		<i>For &gt;250 To 400, Add</i>	5.23	
		<i>For &gt;400 To 600, Add</i>	7.85	
		<i>For &gt;600 To 750, Add</i>	10.46	
		<i>For &gt;750, Add</i>	13.08	
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	121.67	
		<i>For &gt;100 To 250, Add</i>	3.04	
		<i>For &gt;250 To 400, Add</i>	6.08	
		<i>For &gt;400 To 600, Add</i>	9.13	
		<i>For &gt;600 To 750, Add</i>	12.17	
		<i>For &gt;750, Add</i>	15.21	
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	142.96	
		<i>For &gt;100 To 250, Add</i>	3.57	
		<i>For &gt;250 To 400, Add</i>	7.15	
		<i>For &gt;400 To 600, Add</i>	10.72	
		<i>For &gt;600 To 750, Add</i>	14.30	
		<i>For &gt;750, Add</i>	17.87	
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	168.51	
		<i>For &gt;100 To 250, Add</i>	4.21	
		<i>For &gt;250 To 400, Add</i>	8.43	
		<i>For &gt;400 To 600, Add</i>	12.64	
		<i>For &gt;600 To 750, Add</i>	16.85	
		<i>For &gt;750, Add</i>	21.06	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	182.14	
		<i>For &gt;100 To 250, Add</i>	4.55	
		<i>For &gt;250 To 400, Add</i>	9.11	
		<i>For &gt;400 To 600, Add</i>	13.66	
		<i>For &gt;600 To 750, Add</i>	18.21	
		<i>For &gt;750, Add</i>	22.77	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	200.39	
		<i>For &gt;100 To 250, Add</i>	5.01	
		<i>For &gt;250 To 400, Add</i>	10.02	
		<i>For &gt;400 To 600, Add</i>	15.03	
		<i>For &gt;600 To 750, Add</i>	20.04	
		<i>For &gt;750, Add</i>	25.05	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	219.49	
		<i>For &gt;100 To 250, Add</i>	5.49	
		<i>For &gt;250 To 400, Add</i>	10.97	
		<i>For &gt;400 To 600, Add</i>	16.46	
		<i>For &gt;600 To 750, Add</i>	21.95	
		<i>For &gt;750, Add</i>	27.44	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	273.02	
		<i>For &gt;100 To 250, Add</i>	6.83	
		<i>For &gt;250 To 400, Add</i>	13.65	
		<i>For &gt;400 To 600, Add</i>	20.48	
		<i>For &gt;600 To 750, Add</i>	27.30	
		<i>For &gt;750, Add</i>	34.13	

33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock.....	38.45	
For >100 To 250, Add	0.96	
For >250 To 400, Add	1.92	
For >400 To 600, Add	2.88	
For >600 To 750, Add	3.85	
For >750, Add	4.81	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock.....	44.78	
For >100 To 250, Add	1.12	
For >250 To 400, Add	2.24	
For >400 To 600, Add	3.36	
For >600 To 750, Add	4.48	
For >750, Add	5.60	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock.....	71.68	
For >100 To 250, Add	1.79	
For >250 To 400, Add	3.58	
For >400 To 600, Add	5.38	
For >600 To 750, Add	7.17	
For >750, Add	8.96	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock.....	93.73	
For >100 To 250, Add	2.34	
For >250 To 400, Add	4.69	
For >400 To 600, Add	7.03	
For >600 To 750, Add	9.37	
For >750, Add	11.72	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock.....	134.91	
For >100 To 250, Add	3.37	
For >250 To 400, Add	6.75	
For >400 To 600, Add	10.12	
For >600 To 750, Add	13.49	
For >750, Add	16.86	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock.....	176.08	
For >100 To 250, Add	4.40	
For >250 To 400, Add	8.80	
For >400 To 600, Add	13.21	
For >600 To 750, Add	17.61	
For >750, Add	22.01	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock.....	209.36	
For >100 To 250, Add	5.23	
For >250 To 400, Add	10.47	
For >400 To 600, Add	15.70	
For >600 To 750, Add	20.94	
For >750, Add	26.17	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock.....	242.95	
For >100 To 250, Add	6.07	
For >250 To 400, Add	12.15	
For >400 To 600, Add	18.22	
For >600 To 750, Add	24.30	
For >750, Add	30.37	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock.....	286.16	
For >100 To 250, Add	7.15	
For >250 To 400, Add	14.31	
For >400 To 600, Add	21.46	
For >600 To 750, Add	28.62	
For >750, Add	35.77	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock.....	330.55	
For >100 To 250, Add	8.26	
For >250 To 400, Add	16.53	
For >400 To 600, Add	24.79	
For >600 To 750, Add	33.06	
For >750, Add	41.32	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock.....	364.27	
For >100 To 250, Add	9.11	
For >250 To 400, Add	18.21	
For >400 To 600, Add	27.32	
For >600 To 750, Add	36.43	
For >750, Add	45.53	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock.....	400.77	
For >100 To 250, Add	10.02	
For >250 To 400, Add	20.04	
For >400 To 600, Add	30.06	
For >600 To 750, Add	40.08	
For >750, Add	50.10	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock.....	438.98	
For >100 To 250, Add	10.97	
For >250 To 400, Add	21.95	
For >400 To 600, Add	32.92	
For >600 To 750, Add	43.90	
For >750, Add	54.87	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock.....	546.05	
For >100 To 250, Add	13.65	
For >250 To 400, Add	27.30	
For >400 To 600, Add	40.95	
For >600 To 750, Add	54.61	
For >750, Add	68.26	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0037			<b>Drill Hole In Crystalline Rock</b> <small>(33 11 13 00-0002)</small>		
33 11 13 00-0038	LF		6" Water Well Hole Drilled In Crystalline Rock.....	79.09	
			<i>For &gt;100 To 250, Add</i>	1.98	
			<i>For &gt;250 To 400, Add</i>	3.95	
			<i>For &gt;400 To 600, Add</i>	5.93	
			<i>For &gt;600 To 750, Add</i>	7.91	
			<i>For &gt;750, Add</i>	9.89	
33 11 13 00-0039	LF		8" Water Well Hole Drilled In Crystalline Rock.....	91.25	
			<i>For &gt;100 To 250, Add</i>	2.28	
			<i>For &gt;250 To 400, Add</i>	4.56	
			<i>For &gt;400 To 600, Add</i>	6.84	
			<i>For &gt;600 To 750, Add</i>	9.13	
			<i>For &gt;750, Add</i>	11.41	
33 11 13 00-0040	LF		10" Water Well Hole Drilled In Crystalline Rock.....	104.64	
			<i>For &gt;100 To 250, Add</i>	2.62	
			<i>For &gt;250 To 400, Add</i>	5.23	
			<i>For &gt;400 To 600, Add</i>	7.85	
			<i>For &gt;600 To 750, Add</i>	10.46	
			<i>For &gt;750, Add</i>	13.08	
33 11 13 00-0041	LF		12" Water Well Hole Drilled In Crystalline Rock.....	132.62	
			<i>For &gt;100 To 250, Add</i>	3.32	
			<i>For &gt;250 To 400, Add</i>	6.63	
			<i>For &gt;400 To 600, Add</i>	9.95	
			<i>For &gt;600 To 750, Add</i>	13.26	
			<i>For &gt;750, Add</i>	16.58	
33 11 13 00-0042	LF		14" Water Well Hole Drilled In Crystalline Rock.....	171.55	
			<i>For &gt;100 To 250, Add</i>	4.29	
			<i>For &gt;250 To 400, Add</i>	8.58	
			<i>For &gt;400 To 600, Add</i>	12.87	
			<i>For &gt;600 To 750, Add</i>	17.16	
			<i>For &gt;750, Add</i>	21.44	
33 11 13 00-0043	LF		16" Water Well Hole Drilled In Crystalline Rock.....	249.42	
			<i>For &gt;100 To 250, Add</i>	6.24	
			<i>For &gt;250 To 400, Add</i>	12.47	
			<i>For &gt;400 To 600, Add</i>	18.71	
			<i>For &gt;600 To 750, Add</i>	24.94	
			<i>For &gt;750, Add</i>	31.18	
33 11 13 00-0044	LF		18" Water Well Hole Drilled In Crystalline Rock.....	296.87	
			<i>For &gt;100 To 250, Add</i>	7.42	
			<i>For &gt;250 To 400, Add</i>	14.84	
			<i>For &gt;400 To 600, Add</i>	22.27	
			<i>For &gt;600 To 750, Add</i>	29.69	
			<i>For &gt;750, Add</i>	37.11	
33 11 13 00-0045	LF		20" Water Well Hole Drilled In Crystalline Rock.....	344.32	
			<i>For &gt;100 To 250, Add</i>	8.61	
			<i>For &gt;250 To 400, Add</i>	17.22	
			<i>For &gt;400 To 600, Add</i>	25.82	
			<i>For &gt;600 To 750, Add</i>	34.43	
			<i>For &gt;750, Add</i>	43.04	
33 11 13 00-0046	LF		22" Water Well Hole Drilled In Crystalline Rock.....	405.15	
			<i>For &gt;100 To 250, Add</i>	10.13	
			<i>For &gt;250 To 400, Add</i>	20.26	
			<i>For &gt;400 To 600, Add</i>	30.39	
			<i>For &gt;600 To 750, Add</i>	40.52	
			<i>For &gt;750, Add</i>	50.64	
33 11 13 00-0047	LF		24" Water Well Hole Drilled In Crystalline Rock.....	468.42	
			<i>For &gt;100 To 250, Add</i>	11.71	
			<i>For &gt;250 To 400, Add</i>	23.42	
			<i>For &gt;400 To 600, Add</i>	35.13	
			<i>For &gt;600 To 750, Add</i>	46.84	
			<i>For &gt;750, Add</i>	58.55	
33 11 13 00-0048			<b>Furnish And Install Casing</b> <small>(33 11 13 00-0001)</small>		
			Note: Excludes drilling of hole.		
33 11 13 00-0049			<b>Steel Well Casing</b> <small>(33 11 13 00-0048)</small>		
33 11 13 00-0050	LF		6" Diameter, Steel Well Casing, Flush.....	28.82	
			<i>For &gt;100 To 250, Deduct</i>	-0.90	
			<i>For &gt;250 To 400, Deduct</i>	-1.63	
			<i>For &gt;400 To 600, Deduct</i>	-2.44	
			<i>For &gt;600 To 750, Deduct</i>	-3.25	
			<i>For &gt;750, Deduct</i>	-4.30	
33 11 13 00-0051	LF		8" Diameter, Steel Well Casing, Flush.....	35.84	
			<i>For &gt;100 To 250, Deduct</i>	-1.13	
			<i>For &gt;250 To 400, Deduct</i>	-2.02	
			<i>For &gt;400 To 600, Deduct</i>	-3.03	
			<i>For &gt;600 To 750, Deduct</i>	-4.04	
			<i>For &gt;750, Deduct</i>	-5.35	
33 11 13 00-0052	LF		10" Diameter, Steel Well Casing, Flush.....	52.39	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 400, Deduct</i>	-2.90	
			<i>For &gt;400 To 600, Deduct</i>	-4.34	
			<i>For &gt;600 To 750, Deduct</i>	-5.79	
			<i>For &gt;750, Deduct</i>	-7.60	



	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>CS</b>
	<b>Groundwater Sources</b>	<b>33 11</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11	13 00-0053	LF	12" Diameter, Steel Well Casing, Flush .....	86.51	
			<i>For &gt;100 To 250, Deduct</i>	-2.49	
			<i>For &gt;250 To 400, Deduct</i>	-4.66	
			<i>For &gt;400 To 600, Deduct</i>	-6.99	
			<i>For &gt;600 To 750, Deduct</i>	-9.31	
			<i>For &gt;750, Deduct</i>	-12.07	
33 11	13 00-0054	LF	14" Diameter, Steel Well Casing, Flush .....	97.97	
			<i>For &gt;100 To 250, Deduct</i>	-2.91	
			<i>For &gt;250 To 400, Deduct</i>	-5.36	
			<i>For &gt;400 To 600, Deduct</i>	-8.04	
			<i>For &gt;600 To 750, Deduct</i>	-10.72	
			<i>For &gt;750, Deduct</i>	-14.00	
33 11	13 00-0055	LF	16" Diameter, Steel Well Casing, Flush .....	115.33	
			<i>For &gt;100 To 250, Deduct</i>	-3.45	
			<i>For &gt;250 To 400, Deduct</i>	-6.34	
			<i>For &gt;400 To 600, Deduct</i>	-9.51	
			<i>For &gt;600 To 750, Deduct</i>	-12.67	
			<i>For &gt;750, Deduct</i>	-16.58	
33 11	13 00-0056	LF	18" Diameter, Steel Well Casing, Flush .....	132.30	
			<i>For &gt;100 To 250, Deduct</i>	-4.03	
			<i>For &gt;250 To 400, Deduct</i>	-7.33	
			<i>For &gt;400 To 600, Deduct</i>	-11.00	
			<i>For &gt;600 To 750, Deduct</i>	-14.67	
			<i>For &gt;750, Deduct</i>	-19.26	
33 11	13 00-0057	LF	20" Diameter, Steel Well Casing, Flush .....	151.51	
			<i>For &gt;100 To 250, Deduct</i>	-4.67	
			<i>For &gt;250 To 400, Deduct</i>	-8.46	
			<i>For &gt;400 To 600, Deduct</i>	-12.69	
			<i>For &gt;600 To 750, Deduct</i>	-16.92	
			<i>For &gt;750, Deduct</i>	-22.30	
33 11	13 00-0058	LF	24" Diameter, Steel Well Casing, Flush .....	176.68	
			<i>For &gt;100 To 250, Deduct</i>	-5.41	
			<i>For &gt;250 To 400, Deduct</i>	-9.83	
			<i>For &gt;400 To 600, Deduct</i>	-14.74	
			<i>For &gt;600 To 750, Deduct</i>	-19.66	
			<i>For &gt;750, Deduct</i>	-25.86	
33 11	13 00-0059	LB	Steel Well Casing, Furnish And Install .....	1.01	
			<i>For &gt;100 To 250, Deduct</i>	-0.04	
			<i>For &gt;250 To 400, Deduct</i>	-0.06	
			<i>For &gt;400 To 600, Deduct</i>	-0.09	
			<i>For &gt;600 To 750, Deduct</i>	-0.13	
			<i>For &gt;750, Deduct</i>	-0.17	
<b>33 11</b>	<b>13 00-0060</b>		<b>Stainless Steel Well Casing, Flush Threaded</b> <small>(33 11 13 00-0048)</small> .....		
33 11	13 00-0061	LF	6" Diameter, Stainless Steel Well Casing, Flush .....	64.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.80	
			<i>For &gt;250 To 400, Deduct</i>	-3.42	
			<i>For &gt;400 To 600, Deduct</i>	-5.14	
			<i>For &gt;600 To 750, Deduct</i>	-6.85	
			<i>For &gt;750, Deduct</i>	-8.80	
33 11	13 00-0062	LF	8" Diameter, Stainless Steel Well Casing, Flush .....	97.14	
			<i>For &gt;100 To 250, Deduct</i>	-2.66	
			<i>For &gt;250 To 400, Deduct</i>	-5.09	
			<i>For &gt;400 To 600, Deduct</i>	-7.63	
			<i>For &gt;600 To 750, Deduct</i>	-10.17	
			<i>For &gt;750, Deduct</i>	-13.02	
33 11	13 00-0063	LF	10" Diameter, Stainless Steel Well Casing, Flush .....	135.62	
			<i>For &gt;100 To 250, Deduct</i>	-3.69	
			<i>For &gt;250 To 400, Deduct</i>	-7.08	
			<i>For &gt;400 To 600, Deduct</i>	-10.61	
			<i>For &gt;600 To 750, Deduct</i>	-14.15	
			<i>For &gt;750, Deduct</i>	-18.07	
33 11	13 00-0064	LF	12" Diameter, Stainless Steel Well Casing, Flush .....	157.74	
			<i>For &gt;100 To 250, Deduct</i>	-4.29	
			<i>For &gt;250 To 400, Deduct</i>	-8.24	
			<i>For &gt;400 To 600, Deduct</i>	-12.35	
			<i>For &gt;600 To 750, Deduct</i>	-16.47	
			<i>For &gt;750, Deduct</i>	-21.05	
<b>33 11</b>	<b>13 00-0065</b>		<b>Stainless Steel Well Casing, Welded Ring</b> <small>(33 11 13 00-0048)</small> .....		
33 11	13 00-0066	LF	10" Diameter, Stainless Steel Well Casing, Welded .....	144.45	
			<i>For &gt;100 To 250, Deduct</i>	-4.13	
			<i>For &gt;250 To 400, Deduct</i>	-7.74	
			<i>For &gt;400 To 600, Deduct</i>	-11.61	
			<i>For &gt;600 To 750, Deduct</i>	-15.48	
			<i>For &gt;750, Deduct</i>	-20.01	
33 11	13 00-0067	LF	12" Diameter, Stainless Steel Well Casing, Welded .....	167.31	
			<i>For &gt;100 To 250, Deduct</i>	-4.77	
			<i>For &gt;250 To 400, Deduct</i>	-8.95	
			<i>For &gt;400 To 600, Deduct</i>	-13.43	
			<i>For &gt;600 To 750, Deduct</i>	-17.91	
			<i>For &gt;750, Deduct</i>	-23.15	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded .....	200.90	
For >100 To 250, Deduct	-5.69	
For >250 To 400, Deduct	-10.71	
For >400 To 600, Deduct	-16.06	
For >600 To 750, Deduct	-21.42	
For >750, Deduct	-27.63	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded .....	230.03	
For >100 To 250, Deduct	-6.51	
For >250 To 400, Deduct	-12.26	
For >400 To 600, Deduct	-18.38	
For >600 To 750, Deduct	-24.51	
For >750, Deduct	-31.62	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded .....	254.12	
For >100 To 250, Deduct	-7.22	
For >250 To 400, Deduct	-13.57	
For >400 To 600, Deduct	-20.36	
For >600 To 750, Deduct	-27.14	
For >750, Deduct	-35.05	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded .....	332.62	
For >100 To 250, Deduct	-9.35	
For >250 To 400, Deduct	-17.66	
For >400 To 600, Deduct	-26.49	
For >600 To 750, Deduct	-35.32	
For >750, Deduct	-45.49	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded .....	438.00	
For >100 To 250, Deduct	-12.24	
For >250 To 400, Deduct	-23.19	
For >400 To 600, Deduct	-34.78	
For >600 To 750, Deduct	-46.38	
For >750, Deduct	-59.65	
<b>33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80</b> <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing.....	36.91	
For >100 To 250, Deduct	-1.07	
For >250 To 400, Deduct	-1.99	
For >400 To 600, Deduct	-2.99	
For >600 To 750, Deduct	-3.99	
For >750, Deduct	-5.17	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing.....	58.60	
For >100 To 250, Deduct	-1.70	
For >250 To 400, Deduct	-3.16	
For >400 To 600, Deduct	-4.74	
For >600 To 750, Deduct	-6.32	
For >750, Deduct	-8.20	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing.....	88.57	
For >100 To 250, Deduct	-2.56	
For >250 To 400, Deduct	-4.78	
For >400 To 600, Deduct	-7.17	
For >600 To 750, Deduct	-9.56	
For >750, Deduct	-12.40	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing.....	104.53	
For >100 To 250, Deduct	-3.04	
For >250 To 400, Deduct	-5.65	
For >400 To 600, Deduct	-8.47	
For >600 To 750, Deduct	-11.30	
For >750, Deduct	-14.67	
<b>33 11 13 00-0078 Furnish And Install Well Screen Assembly</b> <small>(33 11 13 00-0001)</small>		
<b>33 11 13 00-0079 Stainless Steel Well Screen</b> <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen.....	20.55	1.47
For >100 To 250, Deduct	-0.70	
For >250 To 400, Deduct	-1.22	
For >400 To 600, Deduct	-1.82	
For >600 To 750, Deduct	-2.43	
For >750, Deduct	-3.29	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen.....	32.35	1.47
For >100 To 250, Deduct	-1.01	
For >250 To 400, Deduct	-1.82	
For >400 To 600, Deduct	-2.73	
For >600 To 750, Deduct	-3.64	
For >750, Deduct	-4.82	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen.....	40.63	2.21
For >100 To 250, Deduct	-1.27	
For >250 To 400, Deduct	-2.29	
For >400 To 600, Deduct	-3.43	
For >600 To 750, Deduct	-4.58	
For >750, Deduct	-6.06	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	51.33	2.21
For >100 To 250, Deduct	-1.59	
For >250 To 400, Deduct	-2.87	
For >400 To 600, Deduct	-4.31	
For >600 To 750, Deduct	-5.75	
For >750, Deduct	-7.58	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	61.67	2.95
For >100 To 250, Deduct	-1.95	
For >250 To 400, Deduct	-3.49	
For >400 To 600, Deduct	-5.24	
For >600 To 750, Deduct	-6.99	
For >750, Deduct	-9.26	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	80.47	3.68
For >100 To 250, Deduct	-2.54	
For >250 To 400, Deduct	-4.55	
For >400 To 600, Deduct	-6.82	
For >600 To 750, Deduct	-9.09	
For >750, Deduct	-12.05	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	102.22	5.89
For >100 To 250, Deduct	-3.26	
For >250 To 400, Deduct	-5.82	
For >400 To 600, Deduct	-8.73	
For >600 To 750, Deduct	-11.63	
For >750, Deduct	-15.46	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	119.91	7.36
For >100 To 250, Deduct	-3.82	
For >250 To 400, Deduct	-6.82	
For >400 To 600, Deduct	-10.23	
For >600 To 750, Deduct	-13.64	
For >750, Deduct	-18.12	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	131.76	8.10
For >100 To 250, Deduct	-4.24	
For >250 To 400, Deduct	-7.54	
For >400 To 600, Deduct	-11.31	
For >600 To 750, Deduct	-15.07	
For >750, Deduct	-20.08	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	142.73	9.57
For >100 To 250, Deduct	-4.64	
For >250 To 400, Deduct	-8.20	
For >400 To 600, Deduct	-12.30	
For >600 To 750, Deduct	-16.41	
For >750, Deduct	-21.89	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	171.41	11.04
For >100 To 250, Deduct	-5.60	
For >250 To 400, Deduct	-9.89	
For >400 To 600, Deduct	-14.83	
For >600 To 750, Deduct	-19.77	
For >750, Deduct	-26.42	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	216.18	13.98
For >100 To 250, Deduct	-7.06	
For >250 To 400, Deduct	-12.46	
For >400 To 600, Deduct	-18.69	
For >600 To 750, Deduct	-24.92	
For >750, Deduct	-33.30	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	280.48	18.41
For >100 To 250, Deduct	-9.18	
For >250 To 400, Deduct	-16.19	
For >400 To 600, Deduct	-24.28	
For >600 To 750, Deduct	-32.38	
For >750, Deduct	-43.29	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	323.32	21.35
For >100 To 250, Deduct	-10.54	
For >250 To 400, Deduct	-18.62	
For >400 To 600, Deduct	-27.93	
For >600 To 750, Deduct	-37.24	
For >750, Deduct	-49.74	
<b>33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40</b> <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	11.20	
For >100 To 250, Deduct	-0.41	
For >250 To 400, Deduct	-0.69	
For >400 To 600, Deduct	-1.03	
For >600 To 750, Deduct	-1.37	
For >750, Deduct	-1.88	
For Schedule 80, Add	2.47	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	12.78	
For >100 To 250, Deduct	-0.45	
For >250 To 400, Deduct	-0.77	
For >400 To 600, Deduct	-1.16	
For >600 To 750, Deduct	-1.55	
For >750, Deduct	-2.11	
For Schedule 80, Add	2.96	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	18.24	
For >100 To 250, Deduct	-0.70	
For >250 To 400, Deduct	-1.15	
For >400 To 600, Deduct	-1.73	
For >600 To 750, Deduct	-2.30	
For >750, Deduct	-3.19	
For Schedule 80, Add	3.46	

**33 Utilities****33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	26.41	
For >100 To 250, Deduct	-0.92	
For >250 To 400, Deduct	-1.58	
For >400 To 600, Deduct	-2.37	
For >600 To 750, Deduct	-3.16	
For >750, Deduct	-4.29	
For Schedule 80, Add	6.42	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	33.23	
For >100 To 250, Deduct	-1.16	
For >250 To 400, Deduct	-1.99	
For >400 To 600, Deduct	-2.98	
For >600 To 750, Deduct	-3.98	
For >750, Deduct	-5.40	
For Schedule 80, Add	8.05	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	41.52	
For >100 To 250, Deduct	-1.43	
For >250 To 400, Deduct	-2.47	
For >400 To 600, Deduct	-3.70	
For >600 To 750, Deduct	-4.93	
For >750, Deduct	-6.67	
For Schedule 80, Add	10.37	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	46.10	
For >100 To 250, Deduct	-1.67	
For >250 To 400, Deduct	-2.83	
For >400 To 600, Deduct	-4.24	
For >600 To 750, Deduct	-5.65	
For >750, Deduct	-7.74	
For Schedule 80, Add	10.12	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	66.11	
For >100 To 250, Deduct	-2.32	
For >250 To 400, Deduct	-3.97	
For >400 To 600, Deduct	-5.96	
For >600 To 750, Deduct	-7.94	
For >750, Deduct	-10.79	
For Schedule 80, Add	15.80	
<b>33 11 13 00-0103 Furnish And Install Gravel Pack Material</b> (33 11 13 00-0001)		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
<b>33 11 13 00-0104 Artificial Gravel Pack</b> (33 11 13 00-0103)		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	16.82	
For >100 To 250, Deduct	-0.63	
For >250 To 400, Deduct	-1.05	
For >400 To 600, Deduct	-1.58	
For >600 To 750, Deduct	-2.11	
For >750, Deduct	-2.91	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	24.69	
For >100 To 250, Deduct	-0.95	
For >250 To 400, Deduct	-1.57	
For >400 To 600, Deduct	-2.35	
For >600 To 750, Deduct	-3.13	
For >750, Deduct	-4.35	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	34.15	
For >100 To 250, Deduct	-1.35	
For >250 To 400, Deduct	-2.20	
For >400 To 600, Deduct	-3.30	
For >600 To 750, Deduct	-4.40	
For >750, Deduct	-6.15	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	43.93	
For >100 To 250, Deduct	-1.71	
For >250 To 400, Deduct	-2.81	
For >400 To 600, Deduct	-4.22	
For >600 To 750, Deduct	-5.62	
For >750, Deduct	-7.82	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	54.35	
For >100 To 250, Deduct	-2.09	
For >250 To 400, Deduct	-3.45	
For >400 To 600, Deduct	-5.18	
For >600 To 750, Deduct	-6.90	
For >750, Deduct	-9.58	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	70.71	
For >100 To 250, Deduct	-2.67	
For >250 To 400, Deduct	-4.44	
For >400 To 600, Deduct	-6.66	
For >600 To 750, Deduct	-8.88	
For >750, Deduct	-12.28	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	81.19	
For >100 To 250, Deduct	-3.05	
For >250 To 400, Deduct	-5.08	
For >400 To 600, Deduct	-7.62	
For >600 To 750, Deduct	-10.17	
For >750, Deduct	-14.04	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen .....	96.18	
For >100 To 250, Deduct	-3.65	
For >250 To 400, Deduct	-6.06	
For >400 To 600, Deduct	-9.09	
For >600 To 750, Deduct	-12.12	
For >750, Deduct	-16.77	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen .....	108.65	
For >100 To 250, Deduct	-4.15	
For >250 To 400, Deduct	-6.87	
For >400 To 600, Deduct	-10.30	
For >600 To 750, Deduct	-13.73	
For >750, Deduct	-19.03	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen .....	117.41	
For >100 To 250, Deduct	-4.43	
For >250 To 400, Deduct	-7.37	
For >400 To 600, Deduct	-11.05	
For >600 To 750, Deduct	-14.74	
For >750, Deduct	-20.37	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen .....	139.59	
For >100 To 250, Deduct	-5.33	
For >250 To 400, Deduct	-8.82	
For >400 To 600, Deduct	-13.23	
For >600 To 750, Deduct	-17.64	
For >750, Deduct	-24.45	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen .....	160.63	
For >100 To 250, Deduct	-6.26	
For >250 To 400, Deduct	-10.28	
For >400 To 600, Deduct	-15.42	
For >600 To 750, Deduct	-20.56	
For >750, Deduct	-28.62	
<b>33 11 13 00-0117 Develop Well</b> <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well .....	283.42	
<b>33 11 13 00-0119 Pump Test</b> <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well .....	254.59	
<b>33 11 13 00-0121 Test Well</b> <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well .....	77.99	
<b>33 11 13 00-0123 Surface Seal, Concrete Filled</b> <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled .....	27.37	
<b>33 11 13 00-0125 Other Water Well</b> <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing .....	75.88	
33 11 13 00-0127 SF 1/2" Pressure Grout Well .....	2.18	
33 11 13 00-0128 SF 1" Pressure Grout Well .....	3.57	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well .....	4.60	
<b>33 11 13 00-0130 Sterilization Of Well</b> <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine .....	1,413.72	
<b>33 11 13 00-0132 Submersible Well Pumps</b> <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
<b>33 11 13 00-0133 4" Submersible Well Pumps</b> <small>(33 11 13 00-0132)</small>		
<b>33 11 13 00-0134 Powder Coated Case And Cast Iron Ends</b> <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends .....	1,237.71	403.40
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends .....	1,412.84	447.12
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends .....	1,567.87	496.79
<b>33 11 13 00-0138 Stainless Steel Case And Ends</b> <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	1,410.59	397.43
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	1,610.60	447.12
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	1,807.06	496.79
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	2,076.93	546.47
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	2,357.44	596.15
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	2,911.40	695.51
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel .....	3,686.78	794.86

**33 Utilities****33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 11 13 00-0146 6" Submersible Well Pumps</b> <small>(33 11 13 00-0132)</small>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	3,517.03	993.58
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,072.02	1,092.94
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,649.78	1,192.30
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	5,896.21	1,391.02
<b>33 14 Water Utility Transmission and Distribution</b> <small>(33 10)</small>		
<b>33 14 11 Water Utility Transmission Piping</b> <small>(33 14)</small>		
See CSI section 33 14 13 00-0000 for water utility transmission piping.		
<b>33 14 13 Public Water Utility Distribution Piping</b> <small>(33 14)</small>		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 14 13 13 Ductile Iron Public Water Utility Distribution Piping</b> <small>(33 14 13)</small>		
<b>33 14 13 13-0001 Ductile Iron Piping</b> <small>(33 14 13 13)</small>		
<b>33 14 13 13-0002 Mechanical Joint Ductile Iron Piping</b> <small>(33 14 13 13-0001)</small>		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. See CSI section 33 14 13 13-0484 for bolts and gaskets.		
<b>33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe</b> <small>(33 14 13 13-0002)</small>		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	32.76	10.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	11.64	
For Cement Mortar Lining (CML), Add	1.66	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	8.98	
For Fusion Bonded Epoxy Lining (206N), Add	2.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.25	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.64	
For Class 52, Add	3.65	
For Class 53, Add	9.52	
For Class 54, Add	13.55	
For Class 55, Add	15.62	
For Class 56, Add	17.65	
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	35.47	11.36
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	12.79	
For Cement Mortar Lining (CML), Add	1.83	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.87	
For Fusion Bonded Epoxy Lining (206N), Add	3.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.37	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.77	
For Class 51, Add	1.79	
For Class 52, Add	3.99	
For Class 53, Add	10.44	
For Class 54, Add	14.86	
For Class 55, Add	17.13	
For Class 56, Add	19.35	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	37.84	11.91
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.88	
For Cement Mortar Lining (CML), Add	1.98	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.71	
For Fusion Bonded Epoxy Lining (206N), Add	3.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.89	
For Class 51, Add	1.94	
For Class 52, Add	4.32	
For Class 53, Add	11.30	
For Class 54, Add	16.10	
For Class 55, Add	18.55	
For Class 56, Add	20.95	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	44.14	12.39
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.76	
For Cement Mortar Lining (CML), Add	2.54	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.70	
For Fusion Bonded Epoxy Lining (206N), Add	4.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.90	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.21	
For Class 51, Add	2.42	
For Class 52, Add	5.42	
For Class 53, Add	14.30	
For Class 54, Add	20.38	
For Class 55, Add	23.46	
For Class 56, Add	26.49	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	59.83	17.71
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.80	
For Cement Mortar Lining (CML), Add	3.30	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.50	
For Fusion Bonded Epoxy Lining (206N), Add	5.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.48	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.99	
For Class 51, Add	3.18	
For Class 52, Add	7.11	
For Class 53, Add	18.69	
For Class 54, Add	26.63	
For Class 55, Add	30.67	
For Class 56, Add	34.63	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	71.95	19.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.08	
For Cement Mortar Lining (CML), Add	4.22	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.86	
For Fusion Bonded Epoxy Lining (206N), Add	7.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.60	
For Class 51, Add	4.01	
For Class 52, Add	8.97	
For Class 53, Add	23.71	
For Class 54, Add	33.79	
For Class 55, Add	38.89	
For Class 56, Add	43.90	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	85.81	22.09
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.00	
For Cement Mortar Lining (CML), Add	5.23	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.78	
For Fusion Bonded Epoxy Lining (206N), Add	9.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.29	
For Class 51, Add	4.93	
For Class 52, Add	11.04	
For Class 53, Add	29.27	
For Class 54, Add	41.74	
For Class 55, Add	48.02	
For Class 56, Add	54.19	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	96.91	25.30
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.03	
For Cement Mortar Lining (CML), Add	5.86	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.17	
For Fusion Bonded Epoxy Lining (206N), Add	10.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.40	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.85	
For Class 51, Add	5.54	
For Class 52, Add	12.39	
For Class 53, Add	32.84	
For Class 54, Add	46.83	
For Class 55, Add	53.87	
For Class 56, Add	60.80	



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe .....	119.87	29.51
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.82	
For Cement Mortar Lining (CML), Add	7.52	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.30	
For Fusion Bonded Epoxy Lining (206N), Add	13.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.64	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.99	
For Class 51, Add	7.05	
For Class 52, Add	15.78	
For Class 53, Add	41.95	
For Class 54, Add	59.84	
For Class 55, Add	68.82	
For Class 56, Add	77.65	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe .....	136.42	35.40
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.45	
For Cement Mortar Lining (CML), Add	8.28	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.18	
For Fusion Bonded Epoxy Lining (206N), Add	14.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.82	
For Class 51, Add	7.81	
For Class 52, Add	17.49	
For Class 53, Add	46.37	
For Class 54, Add	66.12	
For Class 55, Add	76.07	
For Class 56, Add	85.84	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe .....	178.13	44.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.43	
For Cement Mortar Lining (CML), Add	11.11	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.33	
For Fusion Bonded Epoxy Lining (206N), Add	19.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.33	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-8.91	
For Class 51, Add	10.42	
For Class 52, Add	23.35	
For Class 53, Add	62.04	
For Class 54, Add	88.48	
For Class 55, Add	101.77	
For Class 56, Add	114.83	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe .....	228.18	47.65
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.56	
For Cement Mortar Lining (CML), Add	15.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.75	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.41	
For Class 51, Add	14.41	
For Class 52, Add	32.35	
For Class 53, Add	86.63	
For Class 54, Add	123.63	
For Class 55, Add	142.09	
For Class 56, Add	160.21	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe .....	271.88	50.61
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	60.72	
For Cement Mortar Lining (CML), Add	19.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.69	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.59	
For Class 51, Add	17.85	
For Class 52, Add	40.12	
For Class 53, Add	107.82	
For Class 54, Add	153.92	
For Class 55, Add	176.83	
For Class 56, Add	199.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	332.80	53.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	78.22	
For Cement Mortar Lining (CML), Add	25.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.64	
For Class 51, Add	22.78	
For Class 52, Add	51.24	
For Class 53, Add	138.24	
For Class 54, Add	197.41	
For Class 55, Add	226.70	
For Class 56, Add	255.46	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	406.56	56.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	99.70	
For Cement Mortar Lining (CML), Add	32.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.12	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.33	
For Class 51, Add	28.82	
For Class 52, Add	64.87	
For Class 53, Add	175.54	
For Class 54, Add	250.74	
For Class 55, Add	287.85	
For Class 56, Add	324.29	
<b>33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow.....	123.88	33.69
For Cement Mortar Lining (CML), Add	7.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow.....	140.25	40.26
For Cement Mortar Lining (CML), Add	7.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow.....	219.68	59.49
For Cement Mortar Lining (CML), Add	12.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow.....	295.46	70.56
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow.....	418.81	78.50
For Cement Mortar Lining (CML), Add	29.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow.....	543.25	92.10
For Cement Mortar Lining (CML), Add	40.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow.....	832.28	103.27
For Cement Mortar Lining (CML), Add	67.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.69	
Note: ANSI/AWWA C151/A21.51		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,096.70	118.02
For Cement Mortar Lining (CML), Add	91.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	165.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,355.62	165.22
For Cement Mortar Lining (CML), Add	110.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	198.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,854.15	206.54
For Cement Mortar Lining (CML), Add	154.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	277.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	115.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,717.35	275.03
For Cement Mortar Lining (CML), Add	230.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	414.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow.....	4,138.92	295.06
For Cement Mortar Lining (CML), Add	369.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	664.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	276.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow.....	6,235.89	306.32
For Cement Mortar Lining (CML), Add	577.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,038.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	432.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow.....	10,433.93	354.07
For Cement Mortar Lining (CML), Add	989.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,781.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	742.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow.....	13,768.05	376.69
For Cement Mortar Lining (CML), Add	1,319.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,375.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	989.80	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow</b> (33 14 13 13-0002)		
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow.....	116.38	33.69
For Cement Mortar Lining (CML), Add	6.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow.....	126.32	40.26
For Cement Mortar Lining (CML), Add	6.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow.....	195.04	59.49
For Cement Mortar Lining (CML), Add	10.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow.....	260.12	70.56
For Cement Mortar Lining (CML), Add	15.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.49	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0040	EA			10" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	342.77 22.39 40.29 16.79	78.50
33 14 13 13-0041	EA			12" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	473.63 33.42 60.15 25.06	92.10
33 14 13 13-0042	EA			14" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	682.33 52.59 94.66 39.44	103.27
33 14 13 13-0043	EA			16" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	834.30 65.55 117.99 49.16	118.02
33 14 13 13-0044	EA			18" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,190.68 94.04 169.27 70.53	165.22
33 14 13 13-0045	EA			20" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,317.56 100.46 180.84 75.35	206.54
33 14 13 13-0046	EA			24" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,942.99 152.62 274.72 114.47	275.03
33 14 13 13-0047	EA			30" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,547.71 310.07 558.12 232.55	295.06
33 14 13 13-0048	EA			36" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,997.77 453.37 816.07 340.03	306.32
33 14 13 13-0049	EA			42" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,502.49 696.60 1,253.89 522.45	354.07
33 14 13 13-0050	EA			48" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,699.17 912.85 1,643.12 684.64	376.69
<b>33 14 13 13-0051</b>				<b>Mechanical Joint Ductile Iron 22-1/2 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0052	EA			3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	102.46 5.14 9.25 3.86	33.69

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	123.11	40.26
For Cement Mortar Lining (CML), Add	6.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	186.47	59.49
For Cement Mortar Lining (CML), Add	9.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	256.91	70.56
For Cement Mortar Lining (CML), Add	15.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	341.70	78.50
For Cement Mortar Lining (CML), Add	22.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	431.86	92.10
For Cement Mortar Lining (CML), Add	29.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	688.76	103.27
For Cement Mortar Lining (CML), Add	53.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	95.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	807.52	118.02
For Cement Mortar Lining (CML), Add	62.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	113.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	1,022.53	165.22
For Cement Mortar Lining (CML), Add	77.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	139.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	1,362.54	206.54
For Cement Mortar Lining (CML), Add	104.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	188.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	1,825.18	275.03
For Cement Mortar Lining (CML), Add	140.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	253.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	3,045.39	295.06
For Cement Mortar Lining (CML), Add	259.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	467.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	4,272.68	306.32
For Cement Mortar Lining (CML), Add	380.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	685.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	285.65	
Note: ANSI/AWWA C151/A21.51		





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,286.86 575.04 1,035.07 431.28	354.07
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,058.34 748.76 1,347.78 561.57	376.69
<b>33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow</b> (33 14 13 13-0002)		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	102.46 5.14 9.25 3.86	33.69
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	119.90 5.89 10.60 4.42	40.26
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	189.69 9.96 17.93 7.47	59.49
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	242.98 13.60 24.48 10.20	70.56
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	339.55 22.06 39.71 16.55	78.50
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	413.66 27.42 49.35 20.56	92.10
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	763.73 60.73 109.31 45.55	103.27
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	843.94 66.51 119.72 49.88	118.02
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,226.03 97.57 175.63 73.18	165.22
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,301.49 98.86 177.94 74.14	206.54

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	1,735.21	275.03
For Cement Mortar Lining (CML), Add	131.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	3,092.52	295.06
For Cement Mortar Lining (CML), Add	264.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	476.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	198.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	4,079.89	306.32
For Cement Mortar Lining (CML), Add	361.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	650.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	271.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	6,024.46	354.07
For Cement Mortar Lining (CML), Add	548.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	987.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	411.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	8,006.93	376.69
For Cement Mortar Lining (CML), Add	743.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,338.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	557.72	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0083)</small>		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	127.09	33.69
For Cement Mortar Lining (CML), Add	7.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	155.24	40.26
For Cement Mortar Lining (CML), Add	9.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0086 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	246.45	59.49
For Cement Mortar Lining (CML), Add	15.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0087 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	330.81	70.56
For Cement Mortar Lining (CML), Add	22.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0088 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	470.22	78.50
For Cement Mortar Lining (CML), Add	35.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	598.95	92.10
For Cement Mortar Lining (CML), Add	45.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	82.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.46	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,011.14 85.47 153.84 64.10	103.27
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,532.61 135.38 243.68 101.53	118.02
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,788.32 153.80 276.84 115.35	165.22
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,423.94 211.10 379.98 158.33	206.54
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,952.98 253.62 456.52 190.22	275.03
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,441.31 499.43 898.97 374.57	295.06
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,667.51 920.35 1,656.62 690.26	306.32
<b>33 14 13 13-0097</b>		<b>Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	117.45 6.64 11.95 4.98	33.69
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	129.54 6.86 12.34 5.14	40.26
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	206.82 11.67 21.01 8.76	59.49
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	294.39 18.74 33.74 14.06	70.56

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	397.39	78.50
For Cement Mortar Lining (CML), Add	27.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	535.75	92.10
For Cement Mortar Lining (CML), Add	39.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	898.68	103.27
For Cement Mortar Lining (CML), Add	74.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,355.89	118.02
For Cement Mortar Lining (CML), Add	117.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	211.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,609.46	165.22
For Cement Mortar Lining (CML), Add	135.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	244.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	101.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,087.63	206.54
For Cement Mortar Lining (CML), Add	177.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	319.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	133.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,628.46	275.03
For Cement Mortar Lining (CML), Add	221.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	398.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	165.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	4,791.19	295.06
For Cement Mortar Lining (CML), Add	434.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	781.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	325.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	8,471.16	306.32
For Cement Mortar Lining (CML), Add	800.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,441.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	600.53	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)</b>		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee.....	200.81	50.53
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee.....	209.82	56.48
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee.....	193.97	59.49
For Cement Mortar Lining (CML), Add	10.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.79	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	257.06 14.35 25.83 10.76	74.93
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	292.80 17.46 31.42 13.09	78.03
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	319.72 18.74 33.74 14.06	87.36
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	339.43 20.24 36.44 15.18	90.42
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	384.57 23.35 42.03 17.51	99.71
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	442.15 28.17 50.70 21.13	105.93
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	458.42 31.06 55.91 23.30	97.56
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	462.19 30.10 54.17 22.57	106.41
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	522.55 35.24 63.43 26.43	112.31
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	581.53 40.27 72.49 30.20	118.02
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	545.92 38.02 68.44 28.52	109.37
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	618.23 43.91 79.04 32.93	118.20



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	752.50	124.12
For Cement Mortar Lining (CML), Add	56.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	805.04	129.82
For Cement Mortar Lining (CML), Add	60.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	109.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....	767.94	135.72
For Cement Mortar Lining (CML), Add	56.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....	817.05	137.75
For Cement Mortar Lining (CML), Add	60.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	109.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....	906.33	143.66
For Cement Mortar Lining (CML), Add	68.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	123.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	1,146.31	149.35
For Cement Mortar Lining (CML), Add	92.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	165.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	69.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	1,223.80	155.25
For Cement Mortar Lining (CML), Add	98.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	177.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	1,186.12	165.05
For Cement Mortar Lining (CML), Add	93.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	168.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	70.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee.....	1,035.32	165.22
For Cement Mortar Lining (CML), Add	78.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee.....	1,111.84	171.13
For Cement Mortar Lining (CML), Add	85.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	153.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee.....	1,287.56	176.82
For Cement Mortar Lining (CML), Add	101.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	183.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee.....	1,405.74	182.72
For Cement Mortar Lining (CML), Add	112.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	203.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.67	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,682.95 139.13 250.43 104.35	192.50
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,598.80 128.63 231.54 96.47	206.27
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,432.12 111.17 200.11 83.38	211.45
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,533.18 120.39 216.69 90.29	217.35
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,655.35 131.74 237.13 98.80	223.06
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,776.75 142.98 257.37 107.24	228.96
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,829.03 146.73 264.12 110.05	238.72
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,951.59 156.91 282.43 117.68	252.47
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,279.01 186.15 335.06 139.61	275.56
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,710.40 125.10 225.17 93.82	303.22
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,747.20 127.88 230.19 95.91	309.13
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,896.15 141.91 255.44 106.43	314.83

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,044.32 155.84 280.50 116.88	320.73
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,070.90 157.01 282.63 117.76	330.49
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,104.57 158.30 284.94 118.73	344.24
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,623.70 206.71 372.08 155.03	367.35
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,341.92 171.58 308.85 128.69	413.25
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,102.86 150.48 270.87 112.86	394.72
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,131.10 152.41 274.34 114.31	401.18
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,336.80 172.12 309.81 129.09	406.33
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,393.93 176.94 318.48 132.70	412.23
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,680.76 204.14 367.45 153.11	421.99
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,889.02 222.88 401.19 167.16	435.72
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,271.06 257.59 463.65 193.19	458.85



	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,624.42 285.97 514.74 214.48	504.73
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,380.97 254.69 458.45 191.02	550.50
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,579.10 287.36 517.25 215.52	465.64
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,764.46 305.03 549.06 228.77	471.34
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,950.12 322.70 580.87 242.03	477.24
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,215.55 347.77 625.98 260.83	487.01
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,504.13 374.54 674.18 280.91	647.95
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,629.11 383.54 690.37 287.65	523.86
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,823.95 396.07 712.93 297.05	569.75
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,074.26 414.17 745.51 310.63	615.48
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,320.93 533.91 961.04 400.43	647.95
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,732.96 303.64 546.55 227.73	459.73

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....	4,357.77	516.54
For Cement Mortar Lining (CML), Add	357.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	643.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	268.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....	4,831.23	522.25
For Cement Mortar Lining (CML), Add	404.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	727.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee.....	5,088.66	528.14
For Cement Mortar Lining (CML), Add	428.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	771.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	321.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee.....	5,275.89	537.91
For Cement Mortar Lining (CML), Add	446.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	802.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	334.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee.....	5,467.01	551.65
For Cement Mortar Lining (CML), Add	463.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	833.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	347.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee.....	5,831.91	574.76
For Cement Mortar Lining (CML), Add	496.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	892.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	372.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee.....	6,232.39	620.65
For Cement Mortar Lining (CML), Add	529.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	952.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	396.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee.....	6,888.63	666.39
For Cement Mortar Lining (CML), Add	587.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,058.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	440.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee.....	7,602.99	724.39
For Cement Mortar Lining (CML), Add	654.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,177.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	490.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee.....	8,846.47	724.39
For Cement Mortar Lining (CML), Add	774.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,394.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	581.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee.....	9,857.20	556.59
For Cement Mortar Lining (CML), Add	901.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,622.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	676.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee.....	10,054.08	566.37
For Cement Mortar Lining (CML), Add	919.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,655.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	689.70	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,157.71 1,027.88 1,850.18 770.91	580.10
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,453.72 953.98 1,717.16 715.48	603.21
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,523.24 953.98 1,717.16 715.48	649.10
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,767.13 971.43 1,748.58 728.57	694.85
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,018.45 1,191.64 2,144.95 893.73	727.36
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,557.19 1,241.66 2,234.98 931.24	752.82
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,331.69 1,316.95 2,370.51 987.71	767.05
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,595.65 1,068.36 1,923.05 801.27	601.94
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,803.24 1,087.64 1,957.75 815.73	611.70
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,097.18 1,114.95 2,006.92 836.21	625.45
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,404.24 1,142.16 2,055.88 856.62	648.56
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,746.88 1,169.47 2,105.04 877.10	694.45

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,852.60 1,173.11 2,111.60 879.83	740.19
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,599.81 1,442.91 2,597.23 1,082.18	772.70
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,759.03 1,654.97 2,978.95 1,241.23	798.15
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,620.29 1,738.94 3,130.09 1,304.21	812.38
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,934.18 1,766.90 3,180.41 1,325.17	835.09
<b>33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)</b>		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	176.62 9.10 16.39 6.83	56.48
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	260.38 17.03 30.65 12.77	59.46
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	257.06 14.35 25.83 10.76	74.93
33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	293.87 17.57 31.62 13.17	78.03
33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	389.34 25.71 46.27 19.28	87.31
33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	491.51 35.45 63.81 26.59	90.42
33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	447.76 29.67 53.40 22.25	99.71



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	535.33 37.49 67.47 28.11	105.91
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	744.39 59.66 107.38 44.74	97.56
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	788.86 62.76 112.97 47.07	106.41
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	902.77 73.26 131.87 54.94	112.31
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,013.16 83.43 150.18 62.58	118.02
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	944.35 77.87 140.16 58.40	109.37
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,065.92 88.68 159.63 66.51	118.20
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,277.31 108.93 196.07 81.69	124.12
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,314.86 111.82 201.27 83.86	129.82
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,198.49 99.29 178.71 74.46	135.71
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,403.98 119.53 215.15 89.65	137.75
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,601.43 138.38 249.08 103.78	143.66

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,075.98 184.97 332.94 138.73	149.35
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,222.01 198.68 357.62 149.01	155.25
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,176.83 192.68 346.82 144.51	165.02
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,452.05 120.17 216.31 90.13	165.22
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,593.81 133.45 240.21 100.09	171.13
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,869.13 160.12 288.22 120.09	176.82
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,084.78 180.79 325.43 135.59	182.72
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,594.41 230.27 414.49 172.71	192.50
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,510.25 219.78 395.60 164.83	206.23
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,266.46 194.61 350.29 145.96	211.45
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,436.07 210.67 379.21 158.01	217.35
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,600.01 226.20 407.17 169.65	223.06



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,778.17 243.13 437.63 182.34	228.96
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,812.25 245.05 441.10 183.79	238.72
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,845.91 246.34 443.41 184.75	252.47
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,621.74 220.42 396.76 165.32	275.58
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,710.76 225.13 405.24 168.85	303.22
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,770.04 230.17 414.30 172.62	309.13
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,031.45 255.44 459.80 191.58	314.83
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,291.01 280.51 504.91 210.38	320.73
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,327.23 282.65 508.76 211.99	330.49
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,370.54 284.90 512.81 213.67	344.24
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,891.81 333.52 600.34 250.14	367.35
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,714.99 308.89 556.00 231.67	413.24



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral).....	3,306.71	394.72
For Cement Mortar Lining (CML), Add	270.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	487.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	203.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral).....	3,349.94	400.62
For Cement Mortar Lining (CML), Add	274.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	493.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	205.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral).....	3,713.09	406.33
For Cement Mortar Lining (CML), Add	309.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	557.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral).....	3,880.53	412.23
For Cement Mortar Lining (CML), Add	325.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	586.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	244.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral).....	4,456.55	421.99
For Cement Mortar Lining (CML), Add	381.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	687.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	286.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral).....	4,936.85	435.72
For Cement Mortar Lining (CML), Add	427.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	769.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral).....	5,511.68	458.85
For Cement Mortar Lining (CML), Add	481.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	866.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	361.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral).....	6,055.68	504.73
For Cement Mortar Lining (CML), Add	529.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	952.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	396.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral).....	5,418.10	550.46
For Cement Mortar Lining (CML), Add	458.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	825.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	343.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral).....	6,671.89	459.73
For Cement Mortar Lining (CML), Add	597.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,075.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	448.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral).....	7,458.41	465.64
For Cement Mortar Lining (CML), Add	675.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,215.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	506.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral).....	7,882.61	471.34
For Cement Mortar Lining (CML), Add	716.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,290.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	537.64	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,307.11 758.40 1,365.13 568.80	477.24
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,909.92 817.20 1,470.97 612.90	487.01
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,560.51 880.18 1,584.33 660.14	500.74
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,806.52 901.28 1,622.30 675.96	523.86
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,170.58 930.73 1,675.32 698.05	569.75
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,665.09 973.25 1,751.86 729.94	615.48
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,550.83 1,056.90 1,902.42 792.68	647.99
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,593.44 1,179.32 2,122.78 884.49	528.14
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,082.70 1,226.77 2,208.18 920.08	537.91
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,571.57 1,273.57 2,292.43 955.18	551.65
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,513.76 1,364.29 2,455.72 1,023.22	574.76
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,493.67 1,455.33 2,619.59 1,091.50	620.65

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,177.04 1,616.74 2,910.12 1,212.55	666.39
33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,221.64 1,816.27 3,269.29 1,362.20	698.90
33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,892.09 2,179.46 3,923.03 1,634.59	724.35
33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,148.68 1,916.52 3,449.73 1,437.39	649.10
33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,664.61 1,961.18 3,530.13 1,470.89	694.85
33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,067.67 2,096.56 3,773.81 1,572.42	727.36
33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,201.53 2,406.09 4,330.96 1,804.57	752.82
33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,672.19 2,851.00 5,131.80 2,138.25	767.03
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,900.35 1,884.82 3,392.67 1,413.61	694.45
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,518.74 2,139.72 3,851.50 1,604.79	740.19
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,993.55 2,282.28 4,108.10 1,711.71	772.70
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,314.85 2,610.55 4,699.00 1,957.91	798.15



	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	35,615.55 3,438.47 6,189.24 2,578.85	812.38
33 14 13	13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,077.23 3,781.20 6,806.16 2,835.90	835.05
<b>33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)</b>					
33 14 13	13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	240.25 13.82 24.87 10.36	67.38
33 14 13	13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	287.82 17.67 31.81 13.25	73.32
33 14 13	13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	336.45 22.39 40.29 16.79	74.31
33 14 13	13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	402.73 26.35 47.43 19.76	91.86
33 14 13	13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	394.33 24.42 43.96 18.32	99.09
33 14 13	13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	461.85 27.42 49.35 20.56	123.86
33 14 13	13-0293	EA	8" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	407.35 24.31 43.76 18.23	108.39
33 14 13	13-0294	EA	8" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	485.58 28.38 51.09 21.29	133.16
33 14 13	13-0295	EA	8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	514.66 29.88 53.79 22.41	142.44
33 14 13	13-0296	EA	10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	489.92 31.70 57.07 23.78	114.11

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross.....	564.24	137.71
For Cement Mortar Lining (CML), Add	35.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	64.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross.....	663.34	146.57
For Cement Mortar Lining (CML), Add	44.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	79.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross.....	717.22	157.37
For Cement Mortar Lining (CML), Add	47.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross.....	588.33	123.92
For Cement Mortar Lining (CML), Add	40.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross.....	685.15	147.53
For Cement Mortar Lining (CML), Add	46.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	83.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross.....	965.25	156.39
For Cement Mortar Lining (CML), Add	72.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross.....	981.66	167.21
For Cement Mortar Lining (CML), Add	72.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross.....	1,109.00	177.03
For Cement Mortar Lining (CML), Add	84.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	151.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross.....	1,128.40	162.27
For Cement Mortar Lining (CML), Add	88.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	158.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross.....	1,319.62	171.13
For Cement Mortar Lining (CML), Add	106.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	190.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross.....	1,357.45	181.96
For Cement Mortar Lining (CML), Add	108.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	194.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross.....	1,432.30	191.78
For Cement Mortar Lining (CML), Add	114.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	205.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.63	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,582.10 126.92 228.45 95.19	206.54
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,289.27 101.21 182.18 75.91	182.92
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,460.15 116.96 210.52 87.72	191.78
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,736.36 142.94 257.29 107.21	202.59
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,929.48 160.76 289.37 120.57	212.42
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,318.12 197.39 355.31 148.04	227.17
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,706.04 233.06 419.50 174.79	247.84
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,096.00 176.83 318.29 132.62	216.29
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,214.38 187.33 337.19 140.49	225.15
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,318.60 196.11 352.99 147.08	235.97
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,509.13 213.67 384.61 160.25	245.80
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,915.98 252.12 453.82 189.09	260.54

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,105.77 267.97 482.35 200.98	281.18
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,261.30 278.47 501.25 208.85	314.55
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,634.67 222.35 400.23 166.76	271.37
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,754.12 232.95 419.31 174.71	280.23
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,840.13 239.91 431.84 179.93	291.07
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,029.60 257.37 463.27 193.03	300.88
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,087.28 260.91 469.63 195.68	315.63
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,714.05 320.46 576.82 240.34	336.27
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,869.58 330.95 595.71 248.21	369.64
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,198.33 355.48 639.86 266.61	424.70
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,578.62 306.43 551.57 229.82	339.48
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,662.98 313.49 564.29 235.12	348.34



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,801.21 325.70 586.27 244.28	359.15
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,921.06 336.20 605.16 252.15	368.99
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,995.89 341.45 614.61 256.09	383.73
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,150.33 353.77 636.78 265.32	404.37
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,444.37 478.11 860.60 358.58	437.74
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,754.90 500.82 901.47 375.61	492.84
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,348.62 549.87 989.77 412.40	560.95
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,757.79 607.39 1,093.30 455.54	451.38
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,893.07 619.28 1,114.70 464.46	462.22
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,025.78 631.06 1,135.90 473.29	472.03
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,184.14 644.66 1,160.39 483.49	486.78
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,367.50 659.87 1,187.76 494.90	507.42

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,587.29 676.79 1,218.22 507.59	540.79
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,873.19 697.03 1,254.66 522.77	595.89
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,076.68 907.06 1,632.72 680.30	663.98
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,588.75 1,042.66 1,876.78 781.99	767.05
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,370.84 862.94 1,553.29 647.20	489.38
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,505.05 874.72 1,574.49 656.04	500.19
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,620.62 884.79 1,592.61 663.59	510.02
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,760.78 896.57 1,613.82 672.43	524.77
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,927.00 910.06 1,638.11 682.55	545.41
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,128.58 925.16 1,665.30 693.87	578.78
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,397.34 943.69 1,698.65 707.77	633.87
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,853.97 979.04 1,762.27 734.28	701.97



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,559.53 1,333.98 2,401.16 1,000.49	805.02
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,979.45 1,470.22 2,646.39 1,102.66	843.04
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,524.28 1,171.83 2,109.29 878.87	531.98
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,137.92 1,330.96 2,395.72 998.22	546.74
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,818.88 1,195.92 2,152.66 896.94	567.37
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,999.05 1,208.88 2,175.99 906.66	600.75
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,259.24 1,226.56 2,207.80 919.92	655.84
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,684.80 1,258.79 2,265.83 944.09	723.94
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,478.19 1,622.52 2,920.53 1,216.89	826.99
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,735.64 2,142.51 3,856.51 1,606.88	864.97
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,345.49 2,300.17 4,140.30 1,725.12	886.94
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,890.23 1,595.21 2,871.37 1,196.41	619.18



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,008.96 1,604.85 2,888.72 1,203.63	633.93
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,168.77 1,617.70 2,911.86 1,213.27	654.57
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,347.85 1,630.55 2,934.99 1,222.91	687.95
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,593.06 1,646.72 2,964.10 1,235.04	743.04
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,001.49 1,677.25 3,019.05 1,257.94	811.13
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,075.51 1,769.04 3,184.27 1,326.78	914.18
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,301.55 2,185.89 3,934.59 1,639.41	952.17
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,854.24 2,837.83 5,108.09 2,128.37	974.14
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,804.99 3,019.69 5,435.44 2,264.77	1,061.30
<b>33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)</b>		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	117.67 6.21 11.18 4.66	36.66
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	138.17 6.86 12.34 5.14	45.95
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	149.09 7.50 13.49 5.62	48.92



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	186.42 10.28 18.51 7.71	55.12
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	206.84 10.93 19.67 8.19	64.40
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	222.10 13.39 24.10 10.04	58.23
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	243.01 14.14 25.45 10.60	67.07
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	265.87 15.53 27.95 11.65	72.98
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	266.37 16.92 30.46 12.69	64.13
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	296.92 18.64 33.54 13.98	72.98
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	311.24 19.17 34.51 14.38	78.88
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	340.22 21.21 38.17 15.91	84.58
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	538.79 41.34 74.42 31.01	82.74
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	526.31 39.20 70.56 29.40	88.65
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	477.11 33.42 60.15 25.06	94.35

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	502.12	100.25
For Cement Mortar Lining (CML), Add	35.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	632.43	96.48
For Cement Mortar Lining (CML), Add	48.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	87.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	623.17	102.38
For Cement Mortar Lining (CML), Add	46.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	614.68	108.08
For Cement Mortar Lining (CML), Add	45.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	81.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	665.38	113.99
For Cement Mortar Lining (CML), Add	49.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	88.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	739.10	123.75
For Cement Mortar Lining (CML), Add	55.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	791.00	125.50
For Cement Mortar Lining (CML), Add	60.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	108.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	883.18	131.20
For Cement Mortar Lining (CML), Add	68.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	123.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	855.70	137.10
For Cement Mortar Lining (CML), Add	64.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	908.00	146.87
For Cement Mortar Lining (CML), Add	68.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	123.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	958.79	160.60
For Cement Mortar Lining (CML), Add	71.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	128.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,114.37	171.39
For Cement Mortar Lining (CML), Add	85.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	153.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.10	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,073.73	177.08
For Cement Mortar Lining (CML), Add	80.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	998.06	182.98
For Cement Mortar Lining (CML), Add	72.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	129.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,007.50	192.75
For Cement Mortar Lining (CML), Add	71.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	128.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,043.31	206.49
For Cement Mortar Lining (CML), Add	73.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,244.34	229.60
For Cement Mortar Lining (CML), Add	89.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	161.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,450.80	228.73
For Cement Mortar Lining (CML), Add	110.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	198.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,493.45	238.50
For Cement Mortar Lining (CML), Add	113.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	203.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,529.25	252.23
For Cement Mortar Lining (CML), Add	114.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	206.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,513.94	275.35
For Cement Mortar Lining (CML), Add	109.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	197.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	1,844.80	321.24
For Cement Mortar Lining (CML), Add	135.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	244.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	101.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	2,921.59	284.74
For Cement Mortar Lining (CML), Add	249.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	448.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	3,055.15	307.85
For Cement Mortar Lining (CML), Add	258.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	465.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.15	
Note: ANSI/AWWA C151/A21.51		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	2,981.16	353.74
For Cement Mortar Lining (CML), Add	244.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	440.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	183.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	2,933.73	399.49
For Cement Mortar Lining (CML), Add	232.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	419.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	174.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	4,362.81	379.20
For Cement Mortar Lining (CML), Add	378.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	681.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	3,651.33	424.93
For Cement Mortar Lining (CML), Add	300.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	541.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	225.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	3,964.06	457.44
For Cement Mortar Lining (CML), Add	327.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	588.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	5,606.84	324.43
For Cement Mortar Lining (CML), Add	511.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	920.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	383.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	5,594.73	347.53
For Cement Mortar Lining (CML), Add	506.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	912.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	380.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	5,647.11	393.42
For Cement Mortar Lining (CML), Add	505.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	909.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	378.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	6,302.29	439.17
For Cement Mortar Lining (CML), Add	563.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,014.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	422.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	5,239.81	471.67
For Cement Mortar Lining (CML), Add	452.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	814.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	339.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	5,486.15	497.13
For Cement Mortar Lining (CML), Add	473.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	851.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	354.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer .....	7,519.79	347.10
For Cement Mortar Lining (CML), Add	699.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,258.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	524.54	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,304.19 674.33 1,213.79 505.75	370.21
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,988.14 635.77 1,144.38 476.83	416.10
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,219.17 651.94 1,173.50 488.96	461.84
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,604.02 785.50 1,413.90 589.13	494.35
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,570.48 678.29 1,220.92 508.72	519.80
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,296.77 748.76 1,347.78 561.57	534.03
<b>33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)</b>		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	145.14 2.79 5.01 2.09	77.41
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	166.54 2.89 5.21 2.17	90.83
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	223.43 5.14 9.25 3.86	113.54
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	282.28 8.57 15.42 6.43	129.77
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	406.22 10.82 19.47 8.11	196.70
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	486.85 16.17 29.11 12.13	214.58

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps.....	602.91	236.04
For Cement Mortar Lining (CML), Add	24.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps.....	726.19	262.24
For Cement Mortar Lining (CML), Add	32.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445 EA 18" Mechanical Joint Ductile Iron Caps.....	848.69	295.06
For Cement Mortar Lining (CML), Add	40.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446 EA 20" Mechanical Joint Ductile Iron Caps.....	1,030.36	337.17
For Cement Mortar Lining (CML), Add	51.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	93.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447 EA 24" Mechanical Joint Ductile Iron Caps.....	1,309.37	393.40
For Cement Mortar Lining (CML), Add	71.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	128.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448 EA 30" Mechanical Joint Ductile Iron Caps.....	2,346.47	472.09
For Cement Mortar Lining (CML), Add	163.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	293.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	122.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449 EA 36" Mechanical Joint Ductile Iron Caps.....	3,860.88	590.10
For Cement Mortar Lining (CML), Add	296.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	534.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	222.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450 EA 42" Mechanical Joint Ductile Iron Caps.....	5,572.36	708.12
For Cement Mortar Lining (CML), Add	449.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	809.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	337.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0451 EA 48" Mechanical Joint Ductile Iron Caps.....	6,613.73	786.81
For Cement Mortar Lining (CML), Add	542.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	975.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	406.62	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)</b>		
33 14 13 13-0453 EA 3" Mechanical Joint Ductile Iron Plug.....	149.42	77.41
For Cement Mortar Lining (CML), Add	3.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0454 EA 4" Mechanical Joint Ductile Iron Plug.....	172.96	90.83
For Cement Mortar Lining (CML), Add	3.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455 EA 6" Mechanical Joint Ductile Iron Plug.....	240.57	113.54
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0456	EA	8" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	299.42 10.28 18.51 7.71	129.77
33 14 13 13-0457	EA	10" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	475.83 17.78 32.00 13.33	196.70
33 14 13 13-0458	EA	12" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	506.13 18.10 32.58 13.58	214.58
33 14 13 13-0459	EA	14" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	726.08 36.84 66.32 27.63	236.04
33 14 13 13-0460	EA	16" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	444.51 4.71 8.48 3.53	262.24
33 14 13 13-0461	EA	18" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,031.84 58.48 105.26 43.86	295.06
33 14 13 13-0462	EA	20" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,279.92 76.90 138.42 57.68	337.17
33 14 13 13-0463	EA	24" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,662.82 106.68 192.02 80.01	393.40
33 14 13 13-0464	EA	30" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,832.73 211.75 381.14 158.81	472.09
33 14 13 13-0465	EA	36" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,165.06 327.10 588.77 245.32	590.10
33 14 13 13-0466	EA	42" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,610.92 453.80 816.84 340.35	708.12
33 14 13 13-0467	EA	48" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,241.36 604.92 1,088.86 453.69	786.81

33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0469	EA	3" Mechanical Joint Ductile Iron Long Sleeves .....	237.19	117.67
		For Cement Mortar Lining (CML), Add	5.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	10.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470	EA	4" Mechanical Joint Ductile Iron Long Sleeves .....	276.05	136.25
		For Cement Mortar Lining (CML), Add	6.96	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	12.53	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471	EA	6" Mechanical Joint Ductile Iron Long Sleeves .....	374.78	170.30
		For Cement Mortar Lining (CML), Add	11.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	21.01	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.76	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472	EA	8" Mechanical Joint Ductile Iron Long Sleeves .....	486.62	194.60
		For Cement Mortar Lining (CML), Add	19.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	34.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.38	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473	EA	10" Mechanical Joint Ductile Iron Long Sleeves .....	675.18	295.06
		For Cement Mortar Lining (CML), Add	22.81	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	41.06	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474	EA	12" Mechanical Joint Ductile Iron Long Sleeves .....	796.15	321.87
		For Cement Mortar Lining (CML), Add	30.85	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	55.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475	EA	14" Mechanical Joint Ductile Iron Long Sleeves .....	1,002.35	354.07
		For Cement Mortar Lining (CML), Add	46.59	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	83.86	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476	EA	16" Mechanical Joint Ductile Iron Long Sleeves .....	1,186.20	393.40
		For Cement Mortar Lining (CML), Add	59.01	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	106.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.26	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477	EA	18" Mechanical Joint Ductile Iron Long Sleeves .....	1,425.65	442.58
		For Cement Mortar Lining (CML), Add	75.51	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	135.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.63	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478	EA	20" Mechanical Joint Ductile Iron Long Sleeves .....	1,677.83	505.79
		For Cement Mortar Lining (CML), Add	91.15	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	164.06	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.36	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479	EA	24" Mechanical Joint Ductile Iron Long Sleeves .....	2,094.74	590.10
		For Cement Mortar Lining (CML), Add	120.06	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	216.12	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480	EA	30" Mechanical Joint Ductile Iron Long Sleeves .....	3,587.72	708.12
		For Cement Mortar Lining (CML), Add	251.48	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	452.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	188.61	
		Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,872.37 353.12 635.62 264.84	885.15
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,254.28 472.33 850.19 354.25	1,010.42
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,423.28 663.51 1,194.32 497.63	1,180.21
<b>33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs</b> <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
<b>33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0484)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	21.42	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	32.96	
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	39.82	
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	46.69	
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	64.54	
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	68.66	
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	112.60	
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	119.47	
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	159.29	
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	205.98	
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	287.00	
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	685.23	
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,477.56	
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,157.30	
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	2,647.53	
33 14 13 13-0501 EA 54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.	3,556.59	
<b>33 14 13 13-0502 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts</b> <small>(33 14 13 13-0484)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0503 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	36.42	
33 14 13 13-0504 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	46.69	
33 14 13 13-0505 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	59.05	
33 14 13 13-0506 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	64.54	
33 14 13 13-0507 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	89.26	
33 14 13 13-0508 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	93.38	
33 14 13 13-0509 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	141.44	
33 14 13 13-0510 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	155.17	
33 14 13 13-0511 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	205.98	
33 14 13 13-0512 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	266.40	
33 14 13 13-0513 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	372.14	



## 33 Utilities

## 33 10 Water Utilities

## 33 14 Water Utility Transmission and Distribution

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0514			<b>Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0484)</small>		
			Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0515	EA		3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	23.56	
33 14 13 13-0516	EA		4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	35.70	
			Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0517	EA		6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	42.57	
			Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0518	EA		8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	50.81	
			Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0519	EA		10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	70.03	
			Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0520	EA		12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	74.15	
			Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0521	EA		14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	122.21	
			Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0522	EA		16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	129.08	
			Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0523	EA		18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	174.40	
			Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0524	EA		20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	223.83	
			Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0525	EA		24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	313.09	
			Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0526	EA		30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	749.77	
			Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0527	EA		36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	1,661.57	
			Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0528	EA		42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	2,405.85	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0529	EA		48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	2,960.62	
			Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0530	EA		54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	3,633.49	
			Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0531			<b>Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0532	EA		3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	247.90	117.67
			For Cement Mortar Lining (CML), Add .....	6.96	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	12.53	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	5.22	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0533	EA		4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	281.40	136.25
			For Cement Mortar Lining (CML), Add .....	7.50	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	13.49	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	5.62	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0534	EA		6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	361.93	170.30
			For Cement Mortar Lining (CML), Add .....	10.39	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	18.70	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	7.79	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0535	EA		8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	452.34	194.60
			For Cement Mortar Lining (CML), Add .....	15.74	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	28.34	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	11.81	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0536	EA		10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	721.24	295.06
			For Cement Mortar Lining (CML), Add .....	27.42	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	49.35	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	20.56	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0537	EA		12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	838.99	321.87
			For Cement Mortar Lining (CML), Add .....	35.13	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add .....	63.23	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	26.35	
			Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,094.46 55.80 100.44 41.85	354.07
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,233.33 63.73 114.71 47.80	393.40
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,645.22 97.47 175.44 73.10	442.58
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,927.38 116.10 208.98 87.08	505.79
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,323.94 142.98 257.37 107.24	590.10
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,704.47 263.16 473.68 197.37	708.12
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,112.28 377.11 678.80 282.83	885.15
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,790.48 525.77 946.39 394.33	1,011.58
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,372.94 658.48 1,185.26 493.86	1,180.21

**33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series)** (33 14 13 13-0002)

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	152.00	59.02
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	173.90	69.90
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	215.70	86.51
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	267.79	100.97
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	387.66	147.53
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	475.49	168.63
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	550.96	181.51
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	674.01	196.70
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	861.85	236.04
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,014.22	262.15
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,310.12	302.47
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	2,502.10	362.74
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	3,090.92	453.93
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	4,534.85	523.76
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	5,807.91	673.61

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UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0563			<b>Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®)</b> (33 14 13 13-0002)		
33 14 13 13-0564	EA		3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,022.60	48.30
33 14 13 13-0565	EA		4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,149.05	60.38
33 14 13 13-0566	EA		6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,569.59	89.23
33 14 13 13-0567	EA		8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,207.57	105.85
33 14 13 13-0568	EA		10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,822.53	117.76
33 14 13 13-0569	EA		12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,430.24	138.14
33 14 13 13-0570	EA		14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,846.13	154.90
33 14 13 13-0571	EA		16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,196.49	177.03
33 14 13 13-0572	EA		18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,141.17	247.84
33 14 13 13-0573	EA		20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	23,056.09	309.81
33 14 13 13-0574	EA		24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	31,944.07	413.08
33 14 13 13-0575			<b>Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series)</b> (33 14 13 13-0002) Note: Includes machined bolts and gasket.		
33 14 13 13-0576	EA		3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	150.99	59.02
33 14 13 13-0577	EA		4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	192.64	69.90
33 14 13 13-0578	EA		6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	248.20	86.51
33 14 13 13-0579	EA		8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	283.73	100.97
33 14 13 13-0580	EA		10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	493.76	154.82
33 14 13 13-0581	EA		12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	559.16	176.97
33 14 13 13-0582			<b>Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series)</b> (33 14 13 13-0002) Note: Includes nuts, bolts and gasket.		
33 14 13 13-0583	EA		3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	214.66	59.02
33 14 13 13-0584	EA		4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	266.31	69.90
33 14 13 13-0585	EA		6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	366.64	86.51
33 14 13 13-0586	EA		8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	525.23	100.97
33 14 13 13-0587	EA		10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	762.65	154.82
33 14 13 13-0588	EA		12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	945.09	176.97
33 14 13 13-0589	EA		14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,439.67	190.48
33 14 13 13-0590	EA		16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,005.42	206.43
33 14 13 13-0591	EA		18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,271.14	247.71
33 14 13 13-0592	EA		20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	2,509.09	275.11
33 14 13 13-0593	EA		24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,032.28	317.44
33 14 13 13-0594	EA		30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	3,895.61	380.67
33 14 13 13-0595	EA		36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	5,799.99	476.38
33 14 13 13-0596	EA		42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	14,988.98	549.66
33 14 13 13-0597	EA		48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	19,199.33	706.93
33 14 13 13-0598			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping</b> (33 14 13 13-0001) Note: See CSI section 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0599			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow</b> (33 14 13 13-0598)		
33 14 13 13-0600	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	279.18	33.69
33 14 13 13-0601	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	334.11	40.35
33 14 13 13-0602	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	517.42	59.11
33 14 13 13-0603	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	703.53	70.38
33 14 13 13-0604	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	958.61	78.68
33 14 13 13-0605	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,212.65	92.10
33 14 13 13-0606	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,713.75	103.71
33 14 13 13-0607	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,076.70	118.02
33 14 13 13-0608	EA		18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,517.70	165.41
33 14 13 13-0609	EA		20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	3,138.32	206.54
33 14 13 13-0610	EA		24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	4,431.02	275.38
33 14 13 13-0611	EA		30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	7,041.44	295.06
33 14 13 13-0612	EA		36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	10,324.05	306.68
33 14 13 13-0613	EA		42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	16,954.42	354.07
33 14 13 13-0614	EA		48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	22,146.80	376.41
33 14 13 13-0615			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow</b> (33 14 13 13-0598)		
33 14 13 13-0616	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	267.40	33.69
33 14 13 13-0617	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	313.76	40.35
33 14 13 13-0618	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	482.08	59.11
33 14 13 13-0619	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	648.91	70.38
33 14 13 13-0620	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	842.93	78.68
33 14 13 13-0621	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	1,108.76	92.10



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0622	EA			14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	1,490.98	103.71
33 14 13 13-0623	EA			16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	1,783.24	118.02
33 14 13 13-0624	EA			18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	2,118.20	165.41
33 14 13 13-0625	EA			20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	2,573.89	206.54
33 14 13 13-0626	EA			24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	3,393.18	275.38
33 14 13 13-0627	EA			30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	6,166.40	295.06
33 14 13 13-0628	EA			36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	8,489.36	306.68
33 14 13 13-0629	EA			42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	12,578.15	354.07
33 14 13 13-0630	EA			48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow.....	16,074.00	376.41
<b>33 14 13 13-0631 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0598)</b>						
33 14 13 13-0632	EA			3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	210.63	33.69
33 14 13 13-0633	EA			4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	310.54	40.35
33 14 13 13-0634	EA			6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	469.23	59.11
33 14 13 13-0635	EA			8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	644.62	70.38
33 14 13 13-0636	EA			10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	841.86	78.68
33 14 13 13-0637	EA			12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	1,046.64	92.10
33 14 13 13-0638	EA			14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	1,499.54	103.71
33 14 13 13-0639	EA			16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	1,744.68	118.02
33 14 13 13-0640	EA			18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	2,108.56	165.41
33 14 13 13-0641	EA			20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	2,662.78	206.54
33 14 13 13-0642	EA			24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	3,322.49	275.38
33 14 13 13-0643	EA			30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	5,499.15	295.06
33 14 13 13-0644	EA			36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	7,471.87	306.68
33 14 13 13-0645	EA			42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	10,662.06	354.07
33 14 13 13-0646	EA			48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	13,624.54	376.41
<b>33 14 13 13-0647 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0598)</b>						
33 14 13 13-0648	EA			3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	210.63	33.69
33 14 13 13-0649	EA			4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	369.45	40.35
33 14 13 13-0650	EA			6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	473.51	59.11
33 14 13 13-0651	EA			8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	625.34	70.38
33 14 13 13-0652	EA			10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	839.72	78.68
33 14 13 13-0653	EA			12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,017.72	92.10
33 14 13 13-0654	EA			14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,612.00	103.71
33 14 13 13-0655	EA			16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,797.16	118.02
33 14 13 13-0656	EA			18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	2,412.74	165.41
33 14 13 13-0657	EA			20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	2,570.67	206.54
33 14 13 13-0658	EA			24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	3,323.56	275.38
33 14 13 13-0659	EA			30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	5,569.83	295.06
33 14 13 13-0660	EA			36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	7,269.45	306.68
33 14 13 13-0661	EA			42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	10,372.88	354.07
33 14 13 13-0662	EA			48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	13,547.42	376.41
<b>33 14 13 13-0663 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0598)</b>						
33 14 13 13-0664	EA			3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	245.98	33.69
33 14 13 13-0665	EA			4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	358.74	40.35
33 14 13 13-0666	EA			6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	558.12	59.11
33 14 13 13-0667	EA			8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	754.94	70.38
33 14 13 13-0668	EA			10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	1,033.58	78.68
33 14 13 13-0669	EA			12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	1,295.12	92.10
33 14 13 13-0670	EA			14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	2,306.04	103.71
33 14 13 13-0671	EA			16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	3,583.66	118.02
33 14 13 13-0672	EA			18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	4,106.05	165.41
33 14 13 13-0673	EA			20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	4,738.46	206.54
33 14 13 13-0674	EA			24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow .....	5,142.19	275.38
<b>33 14 13 13-0675 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0598)</b>						
33 14 13 13-0676	EA			3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	245.98	33.69



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0677 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	318.04	40.35
33 14 13 13-0678 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	499.22	59.11
33 14 13 13-0679 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	701.39	70.38
33 14 13 13-0680 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	925.41	78.68
33 14 13 13-0681 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	1,200.87	92.10
33 14 13 13-0682 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	1,593.79	103.71
33 14 13 13-0683 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	1,912.83	118.02
33 14 13 13-0684 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	3,559.82	165.41
33 14 13 13-0685 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	3,746.67	206.54
33 14 13 13-0686 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	3,923.34	275.38

**33 14 13 13-0687 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee**

(33 14 13 13-0698)

33 14 13 13-0688 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	347.54	50.53
33 14 13 13-0689 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	379.78	56.98
33 14 13 13-0690 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	400.68	59.11
33 14 13 13-0691 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	567.66	74.93
33 14 13 13-0692 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	614.11	77.88
33 14 13 13-0693 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	649.60	87.27
33 14 13 13-0694 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	751.78	90.08
33 14 13 13-0695 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	814.05	99.46
33 14 13 13-0696 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	894.13	106.03
33 14 13 13-0697 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,001.44	97.45
33 14 13 13-0698 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,003.07	106.40
33 14 13 13-0699 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,085.92	112.66
33 14 13 13-0700 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,170.60	118.02
33 14 13 13-0701 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,202.47	109.08
33 14 13 13-0702 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,215.87	118.02
33 14 13 13-0703 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,313.72	124.28
33 14 13 13-0704 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,509.79	129.65
33 14 13 13-0705 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,515.52	135.90
33 14 13 13-0706 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,711.37	137.69
33 14 13 13-0707 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	1,849.91	143.95
33 14 13 13-0708 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,236.63	149.31
33 14 13 13-0709 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,360.17	155.57
33 14 13 13-0710 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,193.97	165.41
33 14 13 13-0711 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,047.46	165.41
33 14 13 13-0712 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,157.17	170.77
33 14 13 13-0713 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,578.16	177.03
33 14 13 13-0714 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,424.30	182.40
33 14 13 13-0715 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,147.06	192.23
33 14 13 13-0716 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,858.33	206.54
33 14 13 13-0717 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,686.31	211.90
33 14 13 13-0718 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	2,831.28	217.27
33 14 13 13-0719 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,014.50	222.64
33 14 13 13-0720 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,184.09	228.89
33 14 13 13-0721 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,272.80	238.72
33 14 13 13-0722 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,496.03	252.13
33 14 13 13-0723 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,900.56	275.38
33 14 13 13-0724 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,109.18	303.10
33 14 13 13-0725 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,162.05	309.36
33 14 13 13-0726 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,466.29	314.72
33 14 13 13-0727 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,633.75	320.98
33 14 13 13-0728 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,672.11	330.82
33 14 13 13-0729 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,631.87	344.23
33 14 13 13-0730 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	4,617.97	367.47
33 14 13 13-0731 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,972.04	413.08
33 14 13 13-0732 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,783.32	394.29
33 14 13 13-0733 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,820.13	401.45
33 14 13 13-0734 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,888.74	405.92
33 14 13 13-0735 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	3,989.78	412.17
33 14 13 13-0736 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	4,521.88	422.01
33 14 13 13-0737 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	4,715.15	435.42
33 14 13 13-0738 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	5,776.22	458.67
33 14 13 13-0739 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	5,974.28	505.16
33 14 13 13-0740 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	5,631.23	550.77
33 14 13 13-0741 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	6,542.30	459.56
33 14 13 13-0742 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	6,238.49	465.82
33 14 13 13-0743 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	6,586.65	471.19
33 14 13 13-0744 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	6,936.18	477.44
33 14 13 13-0745 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee .....	7,432.95	487.28





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0746 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,970.01	648.22
33 14 13 13-0747 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,942.91	523.94
33 14 13 13-0748 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,949.24	569.54
33 14 13 13-0749 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,289.52	615.14
33 14 13 13-0750 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,866.09	648.22
33 14 13 13-0751 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,766.54	516.79
33 14 13 13-0752 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,552.75	522.15
33 14 13 13-0753 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,978.33	528.41
33 14 13 13-0754 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,281.23	538.25
33 14 13 13-0755 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,586.95	551.66
33 14 13 13-0756 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,174.62	574.91
33 14 13 13-0757 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,797.88	620.51
33 14 13 13-0758 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,849.33	666.10
33 14 13 13-0759 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,235.24	724.22
33 14 13 13-0760 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,071.01	724.22
33 14 13 13-0761 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,934.28	557.02
33 14 13 13-0762 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,254.33	565.96
33 14 13 13-0763 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,862.42	580.27
33 14 13 13-0764 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,341.56	603.52
33 14 13 13-0765 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,411.08	649.11
33 14 13 13-0766 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,935.25	694.71
33 14 13 13-0767 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,244.77	727.80
33 14 13 13-0768 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,316.87	752.83
33 14 13 13-0769 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,460.88	767.13
33 14 13 13-0770 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,567.05	601.72
33 14 13 13-0771 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,899.95	611.56
33 14 13 13-0772 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,372.75	625.86
33 14 13 13-0773 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,856.54	648.22
33 14 13 13-0774 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,378.04	694.71
33 14 13 13-0775 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,507.32	740.32
33 14 13 13-0776 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,012.13	772.50
33 14 13 13-0777 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,759.03	798.43
33 14 13 13-0778 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,210.41	812.74
33 14 13 13-0779 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,511.77	835.09

**33 14 13 13-0780**

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0598)**

33 14 13 13-0781 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	389.76	56.48
33 14 13 13-0782 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	427.24	56.48
33 14 13 13-0783 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	499.22	59.11
33 14 13 13-0784 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	553.74	74.93
33 14 13 13-0785 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	616.25	77.88
33 14 13 13-0786 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	751.35	87.27
33 14 13 13-0787 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	979.91	90.08
33 14 13 13-0788 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	908.31	99.46
33 14 13 13-0789 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,019.44	106.03
33 14 13 13-0790 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,428.78	97.45
33 14 13 13-0791 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,489.32	106.40
33 14 13 13-0792 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,664.28	112.66
33 14 13 13-0793 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,815.37	118.02
33 14 13 13-0794 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,741.20	109.08
33 14 13 13-0795 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,973.09	118.02
33 14 13 13-0796 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,331.21	124.28
33 14 13 13-0797 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,334.49	129.65
33 14 13 13-0798 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,158.15	135.90
33 14 13 13-0799 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,559.63	137.69
33 14 13 13-0800 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,939.16	143.95
33 14 13 13-0801 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,863.54	149.31
33 14 13 13-0802 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,142.38	155.57
33 14 13 13-0803 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,039.37	165.41
33 14 13 13-0804 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,669.82	165.41
33 14 13 13-0805 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,946.53	170.77
33 14 13 13-0806 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,491.76	177.03
33 14 13 13-0807 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,602.44	182.40
33 14 13 13-0808 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,454.80	192.23
33 14 13 13-0809 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,218.56	206.54
33 14 13 13-0810 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,778.77	211.90
33 14 13 13-0811 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,073.69	217.27
33 14 13 13-0812 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,358.65	222.64
33 14 13 13-0813 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,667.49	228.89
33 14 13 13-0814 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,716.56	238.72
33 14 13 13-0815 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,772.71	252.13
33 14 13 13-0816 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,335.40	275.38
33 14 13 13-0817 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,460.84	303.10
33 14 13 13-0818 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,558.68	309.36
33 14 13 13-0819 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,017.16	314.72
33 14 13 13-0820 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,471.65	320.98
33 14 13 13-0821 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,523.94	330.82
33 14 13 13-0822 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,585.45	344.23
33 14 13 13-0823 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,483.73	367.47

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0824	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,116.26	413.08
33 14 13 13-0825	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,412.37	394.29
33 14 13 13-0826	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,482.38	400.55
33 14 13 13-0827	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,120.79	405.92
33 14 13 13-0828	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,411.40	412.17
33 14 13 13-0829	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,423.33	422.01
33 14 13 13-0830	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,261.36	435.42
33 14 13 13-0831	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,254.96	458.67
33 14 13 13-0832	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	10,168.47	505.16
33 14 13 13-0833	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,981.45	550.77
33 14 13 13-0834	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	11,316.99	459.56
33 14 13 13-0835	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	12,707.57	465.82
33 14 13 13-0836	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	13,454.16	471.19
33 14 13 13-0837	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	14,202.12	477.44
33 14 13 13-0838	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	15,262.25	487.28
33 14 13 13-0839	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	16,402.31	500.69
33 14 13 13-0840	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	16,812.19	523.94
33 14 13 13-0841	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	17,405.45	569.54
33 14 13 13-0842	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	18,229.85	615.14
33 14 13 13-0843	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	19,765.71	648.22
33 14 13 13-0844	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	21,760.47	528.41
33 14 13 13-0845	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	22,618.17	538.25
33 14 13 13-0846	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	23,471.19	551.66
33 14 13 13-0847	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	25,118.12	574.91
33 14 13 13-0848	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	26,806.00	620.51
33 14 13 13-0849	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	29,743.55	666.10
33 14 13 13-0850	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	33,339.01	699.19
33 14 13 13-0851	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	39,832.73	724.22
33 14 13 13-0852	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	35,045.78	649.11
33 14 13 13-0853	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	35,908.73	694.71
33 14 13 13-0854	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	38,363.54	727.80
33 14 13 13-0855	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	43,904.03	752.83
33 14 13 13-0856	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	51,833.08	767.13
33 14 13 13-0857	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	34,551.11	694.71
33 14 13 13-0858	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	39,150.92	740.32
33 14 13 13-0859	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	41,733.19	772.50
33 14 13 13-0860	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	47,606.77	798.43
33 14 13 13-0861	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	62,342.28	812.74
33 14 13 13-0862	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	68,467.63	835.09

### 33 14 13 13-0863 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0598)

33 14 13 13-0864	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	689.23	87.27
33 14 13 13-0865	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	854.75	99.46
33 14 13 13-0866	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,217.28	106.40
33 14 13 13-0867	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,400.09	118.02
33 14 13 13-0868	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,847.39	137.69
33 14 13 13-0869	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,249.97	165.41
33 14 13 13-0870	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,659.53	211.90
33 14 13 13-0871	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,579.37	303.10
33 14 13 13-0872	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,182.06	394.29
33 14 13 13-0873	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	7,548.00	459.56

### 33 14 13 13-0874 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0598)

33 14 13 13-0875	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	390.20	67.38
33 14 13 13-0876	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	484.89	73.32
33 14 13 13-0877	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	602.07	74.12
33 14 13 13-0878	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	641.57	91.90
33 14 13 13-0879	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	748.84	99.46
33 14 13 13-0880	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	830.28	123.86
33 14 13 13-0881	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	796.13	108.85
33 14 13 13-0882	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	939.70	133.25
33 14 13 13-0883	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	932.37	142.62
33 14 13 13-0884	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	933.33	114.44
33 14 13 13-0885	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,048.35	137.69
33 14 13 13-0886	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,241.70	146.63
33 14 13 13-0887	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,344.85	157.37
33 14 13 13-0888	EA	12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,194.54	124.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0889 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,383.47	147.53
33 14 13 13-0890 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,500.77	156.46
33 14 13 13-0891 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,747.45	167.19
33 14 13 13-0892 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,992.60	177.03
33 14 13 13-0893 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,055.92	161.83
33 14 13 13-0894 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,433.50	170.77
33 14 13 13-0895 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,493.82	182.40
33 14 13 13-0896 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,631.86	191.33
33 14 13 13-0897 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,915.55	206.54
33 14 13 13-0898 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,301.41	183.29
33 14 13 13-0899 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,629.72	191.33
33 14 13 13-0900 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,165.57	202.96
33 14 13 13-0901 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,537.11	212.80
33 14 13 13-0902 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,290.97	227.10
33 14 13 13-0903 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,480.76	247.67
33 14 13 13-0904 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,954.25	216.37
33 14 13 13-0905 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,182.95	225.31
33 14 13 13-0906 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,379.29	236.04
33 14 13 13-0907 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,755.11	245.87
33 14 13 13-0908 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,565.73	260.18
33 14 13 13-0909 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,921.54	280.74
33 14 13 13-0910 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,187.39	314.72
33 14 13 13-0911 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,971.68	271.81
33 14 13 13-0912 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,202.52	279.85
33 14 13 13-0913 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,361.36	291.47
33 14 13 13-0914 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,733.98	301.31
33 14 13 13-0915 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,829.15	315.61
33 14 13 13-0916 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,081.40	336.18
33 14 13 13-0917 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,347.25	369.26
33 14 13 13-0918 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,934.12	424.70
33 14 13 13-0919 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,799.23	339.75
33 14 13 13-0920 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,957.50	348.70
33 14 13 13-0921 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,224.26	359.43
33 14 13 13-0922 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,454.43	369.26
33 14 13 13-0923 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,583.87	383.57
33 14 13 13-0924 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,867.90	404.13
33 14 13 13-0925 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,468.62	438.11
33 14 13 13-0926 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,017.99	492.65
33 14 13 13-0927 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,127.95	560.59
33 14 13 13-0928 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,535.35	451.52
33 14 13 13-0929 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,744.53	462.25
33 14 13 13-0930 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,950.07	472.09
33 14 13 13-0931 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,193.04	486.39
33 14 13 13-0932 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,471.72	507.85
33 14 13 13-0933 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,796.48	540.93
33 14 13 13-0934 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,207.69	595.47
33 14 13 13-0935 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,717.85	664.32
33 14 13 13-0936 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	18,073.83	767.13
33 14 13 13-0937 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,737.82	489.07
33 14 13 13-0938 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,944.87	499.80
33 14 13 13-0939 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,123.62	509.64
33 14 13 13-0940 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,336.61	524.83
33 14 13 13-0941 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,586.37	545.40
33 14 13 13-0942 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,882.21	578.48
33 14 13 13-0943 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,266.64	633.92
33 14 13 13-0944 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,942.83	701.86
33 14 13 13-0945 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,855.81	804.69
33 14 13 13-0946 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	25,122.91	843.13
33 14 13 13-0947 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,811.63	531.99
33 14 13 13-0948 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,224.90	546.29
33 14 13 13-0949 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,467.18	567.76
33 14 13 13-0950 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,803.72	600.83
33 14 13 13-0951 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,409.85	656.27
33 14 13 13-0952 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,683.68	724.22
33 14 13 13-0953 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,568.46	827.04
33 14 13 13-0954 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,060.45	864.60
33 14 13 13-0955 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	38,650.31	886.94
33 14 13 13-0956 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,811.27	619.61
33 14 13 13-0957 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,989.99	633.92
33 14 13 13-0958 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,229.05	654.48
33 14 13 13-0959 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,488.46	687.56
33 14 13 13-0960 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,834.34	742.99
33 14 13 13-0961 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,432.34	810.95
33 14 13 13-0962 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,077.23	913.77
33 14 13 13-0963 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,896.26	952.21
33 14 13 13-0964 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	47,502.83	974.56
33 14 13 13-0965 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	50,584.61	1,061.30

33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x  
Mechanical Joint Ductile Iron Reducers (33 14 13 13-0598)



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0967	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	275.11	36.66
33 14 13 13-0968	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	383.43	45.95
33 14 13 13-0969	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	421.14	48.79
33 14 13 13-0970	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	550.57	55.36
33 14 13 13-0971	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	574.20	64.75
33 14 13 13-0972	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	671.94	58.12
33 14 13 13-0973	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	704.63	67.05
33 14 13 13-0974	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	733.92	73.31
33 14 13 13-0975	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	776.19	64.38
33 14 13 13-0976	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	859.22	73.31
33 14 13 13-0977	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	874.60	78.68
33 14 13 13-0978	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	914.29	84.94
33 14 13 13-0979	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,336.72	83.15
33 14 13 13-0980	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,345.66	88.52
33 14 13 13-0981	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,175.43	94.77
33 14 13 13-0982	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,200.44	100.14
33 14 13 13-0983	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,601.72	96.56
33 14 13 13-0984	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,556.05	102.82
33 14 13 13-0985	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,464.01	108.18
33 14 13 13-0986	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,448.31	113.55
33 14 13 13-0987	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,636.63	123.39
33 14 13 13-0988	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,746.37	125.17
33 14 13 13-0989	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,967.08	131.43
33 14 13 13-0990	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,881.76	136.80
33 14 13 13-0991	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,245.72	146.63
33 14 13 13-0992	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,974.14	160.94
33 14 13 13-0993	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,326.79	171.67
33 14 13 13-0994	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,346.13	177.03
33 14 13 13-0995	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,136.58	183.29
33 14 13 13-0996	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,137.45	193.13
33 14 13 13-0997	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,089.72	206.54
33 14 13 13-0998	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,468.54	229.79
33 14 13 13-0999	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,934.19	228.89
33 14 13 13-1000	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,978.98	238.72
33 14 13 13-1001	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,034.07	252.13
33 14 13 13-1002	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,994.12	275.38
33 14 13 13-1003	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,454.57	320.98
33 14 13 13-1004	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,321.79	284.32
33 14 13 13-1005	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,550.68	307.57
33 14 13 13-1006	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,361.02	354.07
33 14 13 13-1007	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,567.07	399.66
33 14 13 13-1008	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,020.06	379.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1009 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,542.07	424.70
33 14 13 13-1010 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,985.46	457.78
33 14 13 13-1011 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,331.19	324.56
33 14 13 13-1012 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,276.25	347.81
33 14 13 13-1013 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,312.56	393.40
33 14 13 13-1014 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,723.55	439.00
33 14 13 13-1015 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,789.24	472.09
33 14 13 13-1016 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,198.37	497.12
33 14 13 13-1017 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,005.66	346.91
33 14 13 13-1018 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,592.98	370.15
33 14 13 13-1019 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,974.91	415.75
33 14 13 13-1020 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,332.32	462.25
33 14 13 13-1021 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,764.64	494.43
33 14 13 13-1022 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,789.65	519.48
33 14 13 13-1023 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,057.89	533.78
<b>33 14 13 13-1024 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps</b> <small>(33 14 13 13-0598)</small>		
33 14 13 13-1025 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	264.02	77.41
33 14 13 13-1026 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	317.55	91.01
33 14 13 13-1027 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	459.06	113.54
33 14 13 13-1028 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	608.95	129.49
33 14 13 13-1029 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	817.49	196.70
33 14 13 13-1030 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,021.30	214.58
33 14 13 13-1031 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,158.78	236.04
33 14 13 13-1032 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,403.09	261.97
33 14 13 13-1033 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,640.19	295.06
33 14 13 13-1034 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,972.88	337.08
33 14 13 13-1035 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,518.58	393.40
33 14 13 13-1036 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	4,501.41	472.09
33 14 13 13-1037 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	7,326.77	590.10
33 14 13 13-1038 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	10,519.49	708.12
33 14 13 13-1039 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	12,509.81	786.81
<b>33 14 13 13-1040 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug</b> <small>(33 14 13 13-0598)</small>		
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	265.09	77.41
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	328.27	91.01
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	486.91	113.54
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	636.80	129.49
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	977.08	196.70
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,057.71	214.58
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,391.19	236.04
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,671.92	261.97
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,983.99	295.06
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,437.71	337.08
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,180.48	393.40
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,416.07	472.09
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,895.49	590.10
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	10,591.25	708.12
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	14,031.76	786.81
<b>33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters</b> <small>(33 14 13 13-0598)</small>		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	363.57	117.67
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	475.26	136.06
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	648.97	170.77
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	844.34	194.24



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1061	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	1,248.19	295.06
33 14 13 13-1062	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	1,481.62	321.87
33 14 13 13-1063	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	1,918.09	354.07
33 14 13 13-1064	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	2,174.77	393.40
33 14 13 13-1065	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	2,831.93	442.58
33 14 13 13-1066	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	3,282.24	506.06
33 14 13 13-1067	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	3,966.91	590.10
33 14 13 13-1068	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	6,176.43	708.12
33 14 13 13-1069	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	8,378.95	885.15
33 14 13 13-1070	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	11,344.54	1,011.22
33 14 13 13-1071	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	14,077.30	1,180.21
<b>33 14 13 13-1072</b>		<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves</b> <small>(33 14 13 13-0598)</small>		
33 14 13 13-1073	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	376.42	117.67
33 14 13 13-1074	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	459.20	136.06
33 14 13 13-1075	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	667.18	170.77
33 14 13 13-1076	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	893.61	194.24
33 14 13 13-1077	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,179.64	295.06
33 14 13 13-1078	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,417.35	321.87
33 14 13 13-1079	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,781.00	354.07
33 14 13 13-1080	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	2,101.94	393.40
33 14 13 13-1081	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	2,502.05	442.58
33 14 13 13-1082	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	2,910.59	506.06
33 14 13 13-1083	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	3,626.32	590.10
33 14 13 13-1084	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	5,999.70	708.12
33 14 13 13-1085	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	7,788.81	885.15
33 14 13 13-1086	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	10,098.24	1,010.33
33 14 13 13-1087	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	14,907.36	1,180.21
<b>33 14 13 13-1088</b>		<b>Push-On Joint Ductile Iron Piping</b> <small>(33 14 13 13-0001)</small>		
<b>33 14 13 13-1089</b>		<b>Push-On Joint Ductile Iron Pipe</b> <small>(33 14 13 13-1088)</small> Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1090	LF	4", Class 50, Push-On Joint Ductile Iron Pipe .....	24.38	7.74
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add .....	8.86	
		For Cement Mortar Lining (CML), Add .....	1.27	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add .....	6.83	
		For Fusion Bonded Epoxy Lining (206N), Add .....	2.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	0.95	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct .....	-1.22	
		For Class 51, Add .....	1.24	
		For Class 52, Add .....	2.76	
		For Class 53, Add .....	7.22	
		For Class 54, Add .....	10.28	
		For Class 55, Add .....	11.85	
		For Class 56, Add .....	13.38	
33 14 13 13-1091	LF	6", Class 50, Push-On Joint Ductile Iron Pipe .....	26.75	8.53
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add .....	9.72	
		For Cement Mortar Lining (CML), Add .....	1.39	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add .....	7.50	
		For Fusion Bonded Epoxy Lining (206N), Add .....	2.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add .....	1.04	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct .....	-1.34	
		For Class 51, Add .....	1.36	
		For Class 52, Add .....	3.03	
		For Class 53, Add .....	7.93	
		For Class 54, Add .....	11.29	
		For Class 55, Add .....	13.01	
		For Class 56, Add .....	14.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1092 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	33.06	9.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.29	
For Cement Mortar Lining (CML), Add	1.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.25	
For Fusion Bonded Epoxy Lining (206N), Add	3.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.42	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.65	
For Class 51, Add	1.81	
For Class 52, Add	4.06	
For Class 53, Add	10.70	
For Class 54, Add	15.25	
For Class 55, Add	17.55	
For Class 56, Add	19.82	
33 14 13 13-1093 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	46.90	13.33
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.07	
For Cement Mortar Lining (CML), Add	2.68	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.39	
For Fusion Bonded Epoxy Lining (206N), Add	4.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.35	
For Class 51, Add	2.56	
For Class 52, Add	5.73	
For Class 53, Add	15.11	
For Class 54, Add	21.53	
For Class 55, Add	24.78	
For Class 56, Add	27.98	
33 14 13 13-1094 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	54.27	14.75
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.96	
For Cement Mortar Lining (CML), Add	3.19	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.77	
For Fusion Bonded Epoxy Lining (206N), Add	5.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.71	
For Class 51, Add	3.03	
For Class 52, Add	6.79	
For Class 53, Add	17.94	
For Class 54, Add	25.58	
For Class 55, Add	29.44	
For Class 56, Add	33.23	
33 14 13 13-1095 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	65.81	16.63
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.90	
For Cement Mortar Lining (CML), Add	4.07	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.83	
For Fusion Bonded Epoxy Lining (206N), Add	7.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.29	
For Class 51, Add	3.83	
For Class 52, Add	8.57	
For Class 53, Add	22.75	
For Class 54, Add	32.44	
For Class 55, Add	37.32	
For Class 56, Add	42.11	
33 14 13 13-1096 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	77.84	18.96
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.14	
For Cement Mortar Lining (CML), Add	4.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.23	
For Fusion Bonded Epoxy Lining (206N), Add	8.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.68	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.89	
For Class 51, Add	4.60	
For Class 52, Add	10.30	
For Class 53, Add	27.41	
For Class 54, Add	39.09	
For Class 55, Add	44.96	
For Class 56, Add	50.72	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1097 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	90.59	22.17
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.39	
For Cement Mortar Lining (CML), Add	5.71	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.69	
For Fusion Bonded Epoxy Lining (206N), Add	10.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.53	
For Class 51, Add	5.34	
For Class 52, Add	11.97	
For Class 53, Add	31.84	
For Class 54, Add	45.41	
For Class 55, Add	52.22	
For Class 56, Add	58.92	
33 14 13 13-1098 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	104.78	26.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.53	
For Cement Mortar Lining (CML), Add	6.45	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.07	
For Fusion Bonded Epoxy Lining (206N), Add	11.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.84	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.24	
For Class 51, Add	6.07	
For Class 52, Add	13.60	
For Class 53, Add	36.10	
For Class 54, Add	51.48	
For Class 55, Add	59.21	
For Class 56, Add	66.82	
33 14 13 13-1099 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	132.46	33.17
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.46	
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.25	
For Fusion Bonded Epoxy Lining (206N), Add	14.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.62	
For Class 51, Add	7.72	
For Class 52, Add	17.28	
For Class 53, Add	45.90	
For Class 54, Add	65.45	
For Class 55, Add	75.29	
For Class 56, Add	84.95	
33 14 13 13-1100 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	155.86	35.40
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.69	
For Cement Mortar Lining (CML), Add	10.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.79	
For Class 51, Add	9.49	
For Class 52, Add	21.28	
For Class 53, Add	56.79	
For Class 54, Add	81.02	
For Class 55, Add	93.14	
For Class 56, Add	105.06	
33 14 13 13-1101 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	191.60	37.64
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.71	
For Cement Mortar Lining (CML), Add	13.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.09	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.58	
For Class 51, Add	12.33	
For Class 52, Add	27.68	
For Class 53, Add	74.25	
For Class 54, Add	105.98	
For Class 55, Add	121.78	
For Class 56, Add	137.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1102 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	231.93	39.88
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	53.19	
For Cement Mortar Lining (CML), Add	17.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.87	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.60	
For Class 51, Add	15.56	
For Class 52, Add	34.98	
For Class 53, Add	94.21	
For Class 54, Add	134.52	
For Class 55, Add	154.50	
For Class 56, Add	174.13	
33 14 13 13-1103 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	277.65	42.02
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	66.31	
For Cement Mortar Lining (CML), Add	21.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.88	
For Class 51, Add	19.26	
For Class 52, Add	43.33	
For Class 53, Add	117.02	
For Class 54, Add	167.12	
For Class 55, Add	191.90	
For Class 56, Add	216.22	
33 14 13 13-1104 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	349.60	44.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	87.59	
For Cement Mortar Lining (CML), Add	28.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.19	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.48	
For Class 51, Add	25.22	
For Class 52, Add	56.80	
For Class 53, Add	153.93	
For Class 54, Add	219.90	
For Class 55, Add	252.41	
For Class 56, Add	284.33	
<b>33 14 13 13-1105 Push-On Joint Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-1088)</small>		
33 14 13 13-1106 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron.....	154.61	30.21
For Cement Mortar Lining (CML), Add	10.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron.....	224.42	44.57
For Cement Mortar Lining (CML), Add	15.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron.....	297.81	52.92
For Cement Mortar Lining (CML), Add	21.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron.....	450.62	58.84
For Cement Mortar Lining (CML), Add	32.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron.....	577.85	69.02
For Cement Mortar Lining (CML), Add	43.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.64	
Note: ANSI/AWWA C151/A21.51		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1111 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron.....	1,114.53	77.43
For Cement Mortar Lining (CML), Add	95.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	171.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron.....	1,260.41	88.52
For Cement Mortar Lining (CML), Add	107.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	193.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron.....	1,956.46	123.92
For Cement Mortar Lining (CML), Add	170.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	306.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1114 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron.....	2,206.46	156.20
For Cement Mortar Lining (CML), Add	189.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	340.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1115 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron.....	2,755.21	195.27
For Cement Mortar Lining (CML), Add	236.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	425.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.36	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-1116 Push-On Joint Ductile Iron 45 Degree Elbow</b> (33 14 13 13-1088)		
33 14 13 13-1117 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron.....	129.86	30.21
For Cement Mortar Lining (CML), Add	8.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron.....	191.15	44.57
For Cement Mortar Lining (CML), Add	12.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron.....	262.01	52.92
For Cement Mortar Lining (CML), Add	18.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1120 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron.....	401.20	58.84
For Cement Mortar Lining (CML), Add	27.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1121 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron.....	514.87	69.02
For Cement Mortar Lining (CML), Add	37.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1122 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron.....	721.27	77.43
For Cement Mortar Lining (CML), Add	56.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1123 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron.....	1,054.49	88.52
For Cement Mortar Lining (CML), Add	87.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	156.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.37	
Note: ANSI/AWWA C151/A21.51		





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124	EA			18" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,223.92 96.79 174.22 72.59	123.92
33 14 13 13-1125	EA			20" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,704.92 139.26 250.66 104.44	156.20
33 14 13 13-1126	EA			24" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,116.42 172.60 310.67 129.45	195.27
<b>33 14 13 13-1127</b>				<b>Push-On Joint Ductile Iron Tee</b> (33 14 13 13-1088)		
33 14 13 13-1128	EA			4" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	235.82 16.83 30.29 12.62	44.57
33 14 13 13-1129	EA			6" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	329.52 23.02 41.44 17.27	65.49
33 14 13 13-1130	EA			8" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	446.80 32.64 58.75 24.48	79.38
33 14 13 13-1131	EA			10" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	647.74 51.36 92.45 38.52	89.41
33 14 13 13-1132	EA			12" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	804.18 64.77 116.59 48.58	103.08
33 14 13 13-1133	EA			14" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,280.35 109.26 196.67 81.94	123.92
33 14 13 13-1134	EA			16" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,842.19 160.75 289.35 120.56	154.95
33 14 13 13-1135	EA			18" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,319.64 200.64 361.16 150.48	206.71
33 14 13 13-1136	EA			20" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,736.51 235.44 423.79 176.58	252.22

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137 EA 24" Tee, Push-On Joint Ductile Iron.....	3,578.89	315.26
For Cement Mortar Lining (CML), Add	310.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.59	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-1138 Flanged End x Push-On Joint Ductile Iron Adapters</b> (33 14 13 13-1088)		
33 14 13 13-1139 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron.....	295.93	104.81
For Cement Mortar Lining (CML), Add	13.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron.....	362.83	129.77
For Cement Mortar Lining (CML), Add	16.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	29.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron.....	468.33	151.35
For Cement Mortar Lining (CML), Add	23.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron.....	646.98	221.29
For Cement Mortar Lining (CML), Add	31.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron.....	777.99	252.94
For Cement Mortar Lining (CML), Add	39.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron.....	890.58	272.34
For Cement Mortar Lining (CML), Add	47.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,049.64	295.06
For Cement Mortar Lining (CML), Add	60.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	108.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,242.94	354.07
For Cement Mortar Lining (CML), Add	70.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	127.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,437.61	393.40
For Cement Mortar Lining (CML), Add	84.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	151.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1148 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,789.05	453.93
For Cement Mortar Lining (CML), Add	110.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	198.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1149 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,801.82	544.68
For Cement Mortar Lining (CML), Add	197.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	355.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.24	
Note: ANSI/AWWA C151/A21.51		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,851.78 282.01 507.62 211.51	680.85
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,843.84 365.17 657.31 273.88	786.81
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,184.76 465.20 837.36 348.90	1,011.58
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,497.93 570.93 1,027.67 428.19	1,180.48
<b>33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints</b> <small>(33 14 13 13-1088)</small> <i>Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.</i>		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	33.67	16.32
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	44.77	21.29
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	58.72	21.88
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	68.23	23.24
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	80.31	25.81
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	99.73	29.04
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	117.15	33.18
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	131.38	35.96
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	153.76	43.15
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	181.53	44.81
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	229.33	49.79
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	294.27	53.93
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	359.93	59.01
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	423.22	66.39
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	575.95	72.00
<b>33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series)</b> <small>(33 14 13 13-1088)</small>		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400) .....	178.73	60.35
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600) .....	234.18	73.67
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800) .....	300.22	89.86
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000) .....	445.94	109.62
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200) .....	552.57	133.67
33 14 13 13-1176 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400) .....	935.49	163.08
33 14 13 13-1177 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600) .....	1,071.27	199.03
33 14 13 13-1178 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800) .....	1,220.46	242.74
33 14 13 13-1179 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000) .....	1,650.33	296.21
33 14 13 13-1180 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400) .....	2,100.82	361.31
33 14 13 13-1181 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000) .....	3,579.40	440.88
33 14 13 13-1182 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600) .....	5,056.39	537.80
33 14 13 13-1183 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200) .....	9,103.32	656.18
33 14 13 13-1184 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800) .....	11,764.59	800.49
<b>33 14 13 13-1185 Ductile Iron Pipe Repair</b> <small>(33 14 13 13-0001)</small> <i>See CSI section 33 14 13 13-0002 for mechanical joint fittings.</i>		
<b>33 14 13 13-1186 Ductile Iron Pipe Repair</b> <small>(33 14 13 13-1185)</small> <i>Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.</i>		
33 14 13 13-1187 EA 30" Diameter Mechanical Ductile Iron Push Joint .....	2,423.57	
33 14 13 13-1188 EA 36" Diameter Mechanical Ductile Iron Push Joint .....	3,062.41	
33 14 13 13-1189 EA 42" Diameter Mechanical Ductile Iron Push Joint .....	3,844.19	
33 14 13 13-1190 EA 48" Diameter Mechanical Ductile Iron Push Joint .....	4,816.96	
33 14 13 13-1191 EA 54" Diameter Mechanical Ductile Iron Push Joint .....	6,941.20	
<b>33 14 13 13-1192 WEKO Seals</b> <small>(33 14 13 13-1185)</small> <i>Note: Internal joint seal.</i>		
33 14 13 13-1193 EA 16" WEKO Internal Joint Seal .....	1,301.97	164.75
<i>For Extra Wide Seals, Add</i>	82.48	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1194 EA 18" WEKO Internal Joint Seal .....	1,386.65	173.96
For Extra Wide Seals, Add	83.18	
33 14 13 13-1195 EA 20" WEKO Internal Joint Seal .....	1,471.19	183.17
For Extra Wide Seals, Add	83.88	
33 14 13 13-1196 EA 24" WEKO Internal Joint Seal .....	1,559.71	197.82
For Extra Wide Seals, Add	84.99	
33 14 13 13-1197 EA 30" WEKO Internal Joint Seal .....	1,612.38	212.48
For Extra Wide Seals, Add	86.10	
33 14 13 13-1198 EA 36" WEKO Internal Joint Seal .....	1,693.88	230.80
For Extra Wide Seals, Add	87.48	
33 14 13 13-1199 EA 42" WEKO Internal Joint Seal .....	1,807.85	252.78
For Extra Wide Seals, Add	89.15	
33 14 13 13-1200 EA 48" WEKO Internal Joint Seal .....	1,952.09	271.09
For Extra Wide Seals, Add	90.54	
33 14 13 13-1201 EA 54" WEKO Internal Joint Seal .....	2,026.28	285.75
For Extra Wide Seals, Add	91.65	
33 14 13 13-1202 EA 60" WEKO Internal Joint Seal .....	2,115.15	307.73
For Extra Wide Seals, Add	93.31	

**33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)****33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)****33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)**

33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	2.01	0.71
For >1,000, Deduct	-0.10	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.04	
33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	2.21	0.76
For >1,000, Deduct	-0.11	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	2.57	0.83
For >1,000, Deduct	-0.13	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08	
33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	2.97	0.92
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	3.82	1.02
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.19	
33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	4.91	1.16
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.30	
33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	5.97	1.30
For >1,000, Deduct	-0.30	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.41	
33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	8.46	1.60
For >1,000, Deduct	-0.42	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.67	
33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	14.81	2.04
For >1,000, Deduct	-0.74	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.46	
33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	23.50	2.82
For >1,000, Deduct	-1.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.47	
33 14 13 23-0013 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	35.01	3.77
For >1,000, Deduct	-1.75	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.84	
33 14 13 23-0014 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....	48.73	5.08
For >1,000, Deduct	-2.44	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	5.41	

**33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)**

33 14 13 23-0016 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	21.47	8.48
33 14 13 23-0017 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	27.13	10.60
33 14 13 23-0018 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	34.17	13.25
33 14 13 23-0019 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	50.82	14.66
33 14 13 23-0020 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	55.06	16.43
33 14 13 23-0021 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	65.08	18.64
33 14 13 23-0022 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	72.92	20.89
33 14 13 23-0023 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	100.87	25.66
33 14 13 23-0024 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	144.82	32.59
33 14 13 23-0025 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	233.47	42.78
33 14 13 23-0026 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	287.58	57.24
33 14 13 23-0027 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	380.30	77.04

**33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)**

33 14 13 23-0029 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....	21.85	8.48
33 14 13 23-0030 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....	27.40	10.60
33 14 13 23-0031 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....	34.33	13.25
33 14 13 23-0032 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....	45.85	14.66
33 14 13 23-0033 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....	55.52	16.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0034 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	66.96	18.64
33 14 13 23-0035 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	72.13	20.89
33 14 13 23-0036 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	99.16	25.66
33 14 13 23-0037 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	141.37	32.59
33 14 13 23-0038 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	226.90	42.78
33 14 13 23-0039 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	260.34	57.24
33 14 13 23-0040 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	342.60	77.04
<b>33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)</b>		
33 14 13 23-0042 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	32.18	12.72
33 14 13 23-0043 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	40.61	15.99
33 14 13 23-0044 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	50.91	19.96
33 14 13 23-0045 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	70.11	22.08
33 14 13 23-0046 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	79.77	24.56
33 14 13 23-0047 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	92.79	28.00
33 14 13 23-0048 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	111.49	31.25
33 14 13 23-0049 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	146.23	38.51
33 14 13 23-0050 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	241.03	48.96
33 14 13 23-0051 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	360.35	64.17
33 14 13 23-0052 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	427.87	90.48
33 14 13 23-0053 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	535.93	121.75
<b>33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)</b>		
33 14 13 23-0055 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	14.38	5.65
33 14 13 23-0056 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	19.40	7.60
33 14 13 23-0057 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	25.89	9.98
33 14 13 23-0058 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	35.85	11.05
33 14 13 23-0059 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	39.54	12.28
33 14 13 23-0060 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	44.98	13.96
33 14 13 23-0061 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	51.60	15.63
33 14 13 23-0062 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	70.62	19.22
33 14 13 23-0063 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	100.68	24.48
33 14 13 23-0064 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	170.26	32.08
33 14 13 23-0065 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	203.24	45.29
33 14 13 23-0066 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	259.34	60.87
<b>33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)</b>		
<b>33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)</b>		
33 14 13 23-0069 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	2.20	0.71
For >1,000, Deduct	-0.11	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0070 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	2.58	0.76
For >1,000, Deduct	-0.13	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0071 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	3.31	0.92
For >1,000, Deduct	-0.17	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.15	
33 14 13 23-0072 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	3.95	1.02
For >1,000, Deduct	-0.20	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.21	
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	5.11	1.16
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.33	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	6.10	1.30
For >1,000, Deduct	-0.31	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.43	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	8.12	1.60
For >1,000, Deduct	-0.41	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	12.27	2.04
For >1,000, Deduct	-0.61	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.08	
<b>33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)</b>		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	21.61	8.48
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.21	10.60
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	37.84	14.66
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	42.73	16.43
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	51.23	18.64
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	57.76	20.89
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	75.50	25.66
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	117.65	32.59
<b>33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)</b>		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	21.58	8.48
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.18	10.60



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	37.85	14.66
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	42.60	16.43
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	50.88	18.64
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	57.35	20.89
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	74.66	25.66
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	114.98	32.59
<b>33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0067)		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	32.32	12.72
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	40.72	15.99
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	56.59	22.08
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	63.64	24.56
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	77.06	28.00
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	88.34	31.25
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	109.83	38.51
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	179.03	48.96
<b>33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0067)		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	14.45	5.65
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	19.45	7.60
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	28.21	11.05
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	31.80	12.28
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	37.29	13.96
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	42.69	15.63
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	52.88	19.22
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	77.62	24.48
<b>33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0067)		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	43.23	16.96
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	54.23	21.29
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	75.44	29.42
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	84.82	32.77
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	102.69	37.28
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	117.72	41.69
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	146.37	51.30
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	238.37	65.26
<b>33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings</b> (33 14 13 23)		
<b>33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0122)		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	2.79	0.76
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.73	0.92
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.65	1.02
For >1,000, Deduct	-0.23	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.31	
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.02	1.16
For >1,000, Deduct	-0.30	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.47	
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	7.38	1.30
For >1,000, Deduct	-0.37	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.08	1.60
For >1,000, Deduct	-0.50	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.91	
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	16.64	2.04
For >1,000, Deduct	-0.83	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.73	
<b>33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	28.30	10.60
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	37.84	14.66
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	43.81	16.43
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	53.54	18.64
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	59.91	20.89
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.01	25.66
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	115.20	32.59
<b>33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	32.76	10.60
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	42.13	14.66
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	47.94	16.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	61.28	18.64
33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	69.99	20.89
33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	96.27	25.66
33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	113.85	32.59
<b>33 14 13 23-0147 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0122)</small>		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	43.00	15.99
33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	63.51	22.08
33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	71.89	24.56
33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	81.43	28.00
33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	92.52	31.25
33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	112.85	38.51
33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	178.92	48.96
<b>33 14 13 23-0155 Couplings, Schedule 80 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0122)</small>		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	21.08	7.60
33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	31.01	11.05
33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	34.43	12.28
33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	44.05	13.96
33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	49.50	15.63
33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	61.17	19.22
33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	89.19	24.48
<b>33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0122)</small>		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	57.25	21.29
33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	84.63	29.42
33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	95.78	32.77
33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	108.50	37.28
33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	123.27	41.69
33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	150.37	51.30
33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	238.23	65.26
<b>33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23)</small>		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
<b>33 14 13 23-0172 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0171)</small>		
33 14 13 23-0173 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	8.16	3.03
33 14 13 23-0174 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	11.62	3.67
33 14 13 23-0175 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	15.64	4.13
33 14 13 23-0176 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	20.31	4.59
33 14 13 23-0177 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	26.03	5.15
<b>33 14 13 23-0178 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0171)</small>		
33 14 13 23-0179 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	8.91	3.03
33 14 13 23-0180 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	13.18	3.67
33 14 13 23-0181 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	18.27	4.13
33 14 13 23-0182 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	24.40	4.59
33 14 13 23-0183 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	31.74	5.15
<b>33 14 13 23-0184 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0171)</small>		
33 14 13 23-0185 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe .....	9.66	3.03
33 14 13 23-0186 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe .....	14.73	3.67
33 14 13 23-0187 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe .....	20.90	4.13
33 14 13 23-0188 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe .....	28.40	4.59
33 14 13 23-0189 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe .....	37.45	5.15
<b>33 14 13 23-0190 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0171)</small>		
33 14 13 23-0191 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	32.99	7.71
33 14 13 23-0192 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	40.01	9.18
33 14 13 23-0193 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	52.60	11.01
33 14 13 23-0194 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	73.49	12.85
33 14 13 23-0195 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	98.94	14.69
33 14 13 23-0196 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	122.90	15.60
33 14 13 23-0197 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe .....	153.17	16.80
<b>33 14 13 23-0198 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0171)</small>		
33 14 13 23-0199 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	24.37	5.78
33 14 13 23-0200 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	29.94	6.42
33 14 13 23-0201 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	36.94	7.71
33 14 13 23-0202 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	45.14	9.18
33 14 13 23-0203 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	60.52	11.01
33 14 13 23-0204 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	84.85	12.85

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 14</b>	<b>Water Utility Transmission and Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0205 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	114.15	14.69
33 14 13 23-0206 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	148.20	15.60
33 14 13 23-0207 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe .....	186.00	16.80
<b>33 14 13 23-0208 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)</b>		
33 14 13 23-0209 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	27.41	5.78
33 14 13 23-0210 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	34.16	6.42
33 14 13 23-0211 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	42.19	7.71
33 14 13 23-0212 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	51.95	9.18
33 14 13 23-0213 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	70.30	11.01
33 14 13 23-0214 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	99.54	12.85
33 14 13 23-0215 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	135.58	14.69
33 14 13 23-0216 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	173.59	15.60
33 14 13 23-0217 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe .....	219.13	16.80
<b>33 14 13 23-0218 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)</b>		
33 14 13 23-0219 LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	32.61	5.78
33 14 13 23-0220 LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	40.34	6.42
33 14 13 23-0221 LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	50.14	7.71
33 14 13 23-0222 LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	61.56	9.18
33 14 13 23-0223 LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	84.15	11.01
33 14 13 23-0224 LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	121.27	12.85
33 14 13 23-0225 LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	169.01	14.69
33 14 13 23-0226 LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	222.61	15.60
33 14 13 23-0227 LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	284.92	16.80
<b>33 14 13 23-0228 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)</b>		
33 14 13 23-0229 LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	36.52	5.78
33 14 13 23-0230 LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	45.43	6.42
33 14 13 23-0231 LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	56.56	7.71
33 14 13 23-0232 LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	69.55	9.18
33 14 13 23-0233 LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	95.64	11.01
33 14 13 23-0234 LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	138.96	12.85
33 14 13 23-0235 LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	194.84	14.69
33 14 13 23-0236 LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	258.01	15.60
<b>33 14 13 23-0237 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)</b>		
33 14 13 23-0238 LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	40.33	5.78
33 14 13 23-0239 LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	50.37	6.42
33 14 13 23-0240 LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	62.79	7.71
33 14 13 23-0241 LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	77.32	9.18
33 14 13 23-0242 LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	106.82	11.01
33 14 13 23-0243 LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	156.16	12.85
33 14 13 23-0244 LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	219.97	14.69
<b>33 14 13 23-0245 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)</b>		
Note: Includes rubber gaskets.		
<b>33 14 13 23-0246 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0247 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	178.61	10.60
For DR 25, Deduct .....	-9.44	
33 14 13 23-0248 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	367.46	11.93
For DR 25, Deduct .....	-20.62	
33 14 13 23-0249 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	552.81	13.25
For DR 25, Deduct .....	-31.58	
33 14 13 23-0250 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	844.24	21.15
For DR 25, Deduct .....	-48.12	
33 14 13 23-0251 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	945.30	35.24
For DR 25, Deduct .....	-52.49	
33 14 13 23-0252 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,649.47	44.05
For DR 25, Deduct .....	-93.68	
33 14 13 23-0253 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,968.38	52.85
For DR 25, Deduct .....	-111.76	
33 14 13 23-0254 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,381.19	70.47
For DR 25, Deduct .....	-194.41	
33 14 13 23-0255 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	4,162.14	88.10
For DR 25, Deduct .....	-239.16	
33 14 13 23-0256 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	6,913.84	118.92
For DR 25, Deduct .....	-400.56	
<b>33 14 13 23-0257 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0258 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	158.06	10.60
For DR 25, Deduct .....	-8.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0259 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	274.25	11.93
For DR 25, Deduct	-15.02	
33 14 13 23-0260 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	347.87	13.25
For DR 25, Deduct	-19.28	
33 14 13 23-0261 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	491.79	21.15
For DR 25, Deduct	-26.97	
33 14 13 23-0262 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	656.32	35.24
For DR 25, Deduct	-35.15	
33 14 13 23-0263 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,265.85	44.05
For DR 25, Deduct	-70.66	
33 14 13 23-0264 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,604.96	52.85
For DR 25, Deduct	-89.95	
33 14 13 23-0265 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,773.57	70.47
For DR 25, Deduct	-157.96	
33 14 13 23-0266 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,444.81	88.10
For DR 25, Deduct	-196.12	
33 14 13 23-0267 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,862.25	118.92
For DR 25, Deduct	-277.46	
<b>33 14 13 23-0268 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0269 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	155.56	10.60
For DR 25, Deduct	-8.06	
33 14 13 23-0270 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	274.25	11.93
For DR 25, Deduct	-15.02	
33 14 13 23-0271 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	347.87	13.25
For DR 25, Deduct	-19.28	
33 14 13 23-0272 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	491.81	21.15
For DR 25, Deduct	-26.97	
33 14 13 23-0273 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	656.32	35.24
For DR 25, Deduct	-35.15	
33 14 13 23-0274 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,262.31	42.29
For DR 25, Deduct	-70.66	
33 14 13 23-0275 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,604.95	52.85
For DR 25, Deduct	-89.95	
33 14 13 23-0276 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,773.57	70.47
For DR 25, Deduct	-157.96	
33 14 13 23-0277 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,444.81	88.10
For DR 25, Deduct	-196.12	
33 14 13 23-0278 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,862.25	118.92
For DR 25, Deduct	-277.46	
<b>33 14 13 23-0279 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0280 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	137.16	10.60
For DR 25, Deduct	-6.96	
33 14 13 23-0281 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	274.25	11.93
For DR 25, Deduct	-15.02	
33 14 13 23-0282 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	347.87	13.25
For DR 25, Deduct	-19.28	
33 14 13 23-0283 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	491.81	21.15
For DR 25, Deduct	-26.97	
33 14 13 23-0284 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	656.32	35.24
For DR 25, Deduct	-35.15	
33 14 13 23-0285 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,262.31	42.29
For DR 25, Deduct	-70.66	
33 14 13 23-0286 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,604.95	52.85
For DR 25, Deduct	-89.95	
33 14 13 23-0287 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,773.57	70.47
For DR 25, Deduct	-157.96	
33 14 13 23-0288 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,444.81	88.10
For DR 25, Deduct	-196.12	
33 14 13 23-0289 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,862.25	118.92
For DR 25, Deduct	-277.46	
<b>33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	212.40	11.93
For DR 25, Deduct	-11.31	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	411.96	13.25
For DR 25, Deduct	-23.13	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	575.49	15.02
For DR 25, Deduct	-32.73	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,187.64	26.43
For DR 25, Deduct	-68.09	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,446.10	52.85
For DR 25, Deduct	-80.43	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,616.67	66.07
For DR 25, Deduct	-149.07	



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0297 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,241.42	79.29
For DR 25, Deduct	-184.97	
33 14 13 23-0298 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,088.96	105.72
For DR 25, Deduct	-232.65	
33 14 13 23-0299 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,909.46	132.14
For DR 25, Deduct	-278.71	
33 14 13 23-0300 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,751.07	89.85
For DR 25, Deduct	-394.28	
<b>33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0302 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	409.48	17.22
For DR 25, Deduct	-22.50	
33 14 13 23-0303 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	557.85	18.56
For DR 25, Deduct	-31.25	
33 14 13 23-0304 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	571.78	19.21
For DR 25, Deduct	-32.00	
33 14 13 23-0305 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,718.59	26.43
For DR 25, Deduct	-339.94	
33 14 13 23-0306 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,006.35	27.09
For DR 25, Deduct	-57.13	
33 14 13 23-0307 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,076.78	27.75
For DR 25, Deduct	-61.28	
33 14 13 23-0308 EA 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,139.70	40.52
For DR 25, Deduct	-63.52	
33 14 13 23-0309 EA 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,309.17	41.18
For DR 25, Deduct	-73.61	
33 14 13 23-0310 EA 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,389.19	41.85
For DR 25, Deduct	-78.33	
33 14 13 23-0311 EA 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,414.83	45.80
For DR 25, Deduct	-79.39	
33 14 13 23-0312 EA 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,152.40	47.57
For DR 25, Deduct	-123.44	
33 14 13 23-0313 EA 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,239.20	48.23
For DR 25, Deduct	-128.56	
33 14 13 23-0314 EA 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,326.20	48.89
For DR 25, Deduct	-133.70	
33 14 13 23-0315 EA 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,419.31	52.85
For DR 25, Deduct	-138.82	
33 14 13 23-0316 EA 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,518.92	59.90
For DR 25, Deduct	-143.95	
33 14 13 23-0317 EA 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,686.34	58.14
For DR 25, Deduct	-154.20	
33 14 13 23-0318 EA 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,771.78	58.14
For DR 25, Deduct	-159.33	
33 14 13 23-0319 EA 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,858.57	58.80
For DR 25, Deduct	-164.46	
33 14 13 23-0320 EA 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,945.36	59.47
For DR 25, Deduct	-169.59	
33 14 13 23-0321 EA 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,052.83	70.47
For DR 25, Deduct	-174.71	
33 14 13 23-0322 EA 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,145.35	74.00
For DR 25, Deduct	-179.84	
33 14 13 23-0323 EA 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,319.20	75.77
For DR 25, Deduct	-190.06	
33 14 13 23-0324 EA 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,406.59	76.42
For DR 25, Deduct	-195.23	
33 14 13 23-0325 EA 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,493.39	77.08
For DR 25, Deduct	-200.35	
33 14 13 23-0326 EA 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,586.77	81.05
For DR 25, Deduct	-205.48	
33 14 13 23-0327 EA 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,686.30	88.10
For DR 25, Deduct	-210.61	
33 14 13 23-0328 EA 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,778.23	91.62
For DR 25, Deduct	-215.70	
33 14 13 23-0329 EA 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,894.92	96.90
For DR 25, Deduct	-222.07	
33 14 13 23-0330 EA 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,210.24	93.38
For DR 25, Deduct	-241.41	
33 14 13 23-0331 EA 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,357.50	94.04
For DR 25, Deduct	-250.16	
33 14 13 23-0332 EA 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,415.39	94.70
For DR 25, Deduct	-253.56	
33 14 13 23-0333 EA 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,479.98	98.67
For DR 25, Deduct	-256.96	
33 14 13 23-0334 EA 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,550.66	105.72
For DR 25, Deduct	-260.35	
33 14 13 23-0335 EA 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,649.46	109.24
For DR 25, Deduct	-265.86	
33 14 13 23-0336 EA 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,751.81	114.52
For DR 25, Deduct	-271.37	
33 14 13 23-0337 EA 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,830.63	123.34
For DR 25, Deduct	-275.04	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0338 EA 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,954.80	124.22
For DR 25, Deduct	-282.38	
33 14 13 23-0339 EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,017.34	124.87
For DR 25, Deduct	-286.06	
33 14 13 23-0340 EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,079.89	125.54
For DR 25, Deduct	-289.73	
33 14 13 23-0341 EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,336.73	129.50
For DR 25, Deduct	-304.66	
33 14 13 23-0342 EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,599.75	136.55
For DR 25, Deduct	-319.60	
33 14 13 23-0343 EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,855.74	140.07
For DR 25, Deduct	-334.54	
33 14 13 23-0344 EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,115.25	145.36
For DR 25, Deduct	-349.47	
33 14 13 23-0345 EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,381.81	154.17
For DR 25, Deduct	-364.41	
33 14 13 23-0346 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,648.36	162.97
For DR 25, Deduct	-379.34	
<b>33 14 13 23-0347 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0348 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	293.82	21.20
For DR 25, Deduct	-15.08	
33 14 13 23-0349 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	530.19	23.85
For DR 25, Deduct	-28.95	
33 14 13 23-0350 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	735.16	26.50
For DR 25, Deduct	-40.93	
33 14 13 23-0351 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,502.46	42.29
For DR 25, Deduct	-85.07	
33 14 13 23-0352 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,781.53	52.85
For DR 25, Deduct	-100.55	
33 14 13 23-0353 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,246.78	70.47
For DR 25, Deduct	-186.35	
33 14 13 23-0354 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	4,029.14	88.10
For DR 25, Deduct	-231.19	
33 14 13 23-0355 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	5,129.56	140.95
For DR 25, Deduct	-290.86	
33 14 13 23-0356 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	6,158.94	176.19
For DR 25, Deduct	-348.39	
33 14 13 23-0357 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	8,689.42	237.86
For DR 25, Deduct	-492.82	
<b>33 14 13 23-0358 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)</b>		
33 14 13 23-0359 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	514.21	22.53
For DR 25, Deduct	-28.15	
33 14 13 23-0360 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	699.44	23.85
For DR 25, Deduct	-39.10	
33 14 13 23-0361 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	717.19	25.17
For DR 25, Deduct	-40.01	
33 14 13 23-0362 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,076.96	31.72
For DR 25, Deduct	-60.81	
33 14 13 23-0363 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,256.44	33.03
For DR 25, Deduct	-71.42	
33 14 13 23-0364 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,380.58	34.35
For DR 25, Deduct	-78.71	
33 14 13 23-0365 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,415.36	45.80
For DR 25, Deduct	-79.42	
33 14 13 23-0366 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,627.69	47.13
For DR 25, Deduct	-92.01	
33 14 13 23-0367 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,728.73	48.45
For DR 25, Deduct	-97.91	
33 14 13 23-0368 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,766.64	56.38
For DR 25, Deduct	-99.23	
33 14 13 23-0369 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,677.29	52.85
For DR 25, Deduct	-154.29	
33 14 13 23-0370 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,786.43	54.18
For DR 25, Deduct	-160.68	
33 14 13 23-0371 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,896.77	55.50
For DR 25, Deduct	-167.15	
33 14 13 23-0372 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,019.86	63.43
For DR 25, Deduct	-173.58	
33 14 13 23-0373 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,154.47	77.52
For DR 25, Deduct	-179.97	
33 14 13 23-0374 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,338.89	63.43
For DR 25, Deduct	-192.72	
33 14 13 23-0375 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,449.50	64.75
For DR 25, Deduct	-199.20	
33 14 13 23-0376 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,558.91	66.07
For DR 25, Deduct	-205.61	
33 14 13 23-0377 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,681.91	74.00
For DR 25, Deduct	-212.03	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0378 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,740.45	88.10
For DR 25, Deduct	-213.86	
33 14 13 23-0379 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,937.30	95.14
For DR 25, Deduct	-224.82	
33 14 13 23-0380 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,122.23	81.05
For DR 25, Deduct	-237.61	
33 14 13 23-0381 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,232.57	82.37
For DR 25, Deduct	-244.07	
33 14 13 23-0382 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,342.15	83.69
For DR 25, Deduct	-250.49	
33 14 13 23-0383 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,463.55	91.62
For DR 25, Deduct	-256.82	
33 14 13 23-0384 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,599.43	105.72
For DR 25, Deduct	-263.28	
33 14 13 23-0385 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,719.97	112.76
For DR 25, Deduct	-269.67	
33 14 13 23-0386 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,873.56	123.34
For DR 25, Deduct	-277.61	
33 14 13 23-0387 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,227.20	98.67
For DR 25, Deduct	-301.79	
33 14 13 23-0388 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,411.94	99.99
For DR 25, Deduct	-312.72	
33 14 13 23-0389 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,485.84	101.31
For DR 25, Deduct	-316.99	
33 14 13 23-0390 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,572.17	109.24
For DR 25, Deduct	-321.22	
33 14 13 23-0391 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,670.86	123.34
For DR 25, Deduct	-325.45	
33 14 13 23-0392 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,798.87	130.38
For DR 25, Deduct	-332.29	
33 14 13 23-0393 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,936.20	140.95
For DR 25, Deduct	-339.26	
33 14 13 23-0394 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,047.72	158.57
For DR 25, Deduct	-343.83	
33 14 13 23-0395 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,107.98	129.50
For DR 25, Deduct	-350.94	
33 14 13 23-0396 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,221.51	130.82
For DR 25, Deduct	-357.59	
33 14 13 23-0397 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,300.98	132.14
For DR 25, Deduct	-362.20	
33 14 13 23-0398 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,627.65	140.07
For DR 25, Deduct	-380.85	
33 14 13 23-0399 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,966.76	154.17
For DR 25, Deduct	-399.51	
33 14 13 23-0400 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,291.71	161.21
For DR 25, Deduct	-418.16	
33 14 13 23-0401 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,625.04	171.79
For DR 25, Deduct	-436.89	
33 14 13 23-0402 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,970.48	189.40
For DR 25, Deduct	-455.50	
33 14 13 23-0403 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,317.24	207.02
For DR 25, Deduct	-474.19	
<b>33 14 13 23-0404 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0245)</small>		
33 14 13 23-0405 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	105.97	10.60
For DR 25, Deduct	-5.09	
33 14 13 23-0406 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	198.83	11.93
For DR 25, Deduct	-10.50	
33 14 13 23-0407 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	239.52	13.25
For DR 25, Deduct	-12.78	
33 14 13 23-0408 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	340.26	21.15
For DR 25, Deduct	-17.88	
33 14 13 23-0409 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	542.45	26.43
For DR 25, Deduct	-29.37	
33 14 13 23-0410 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	942.91	35.24
For DR 25, Deduct	-52.34	
33 14 13 23-0411 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,116.61	44.05
For DR 25, Deduct	-61.71	
33 14 13 23-0412 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,679.01	70.47
For DR 25, Deduct	-152.28	
33 14 13 23-0413 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,001.84	88.10
For DR 25, Deduct	-169.54	
33 14 13 23-0414 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,227.52	118.92
For DR 25, Deduct	-239.38	
<b>33 14 13 23-0415 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0245)</small>		
33 14 13 23-0416 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	131.79	10.60
For DR 25, Deduct	-6.64	
33 14 13 23-0417 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	179.46	11.93
For DR 25, Deduct	-9.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0418 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	261.58	13.25
<i>For DR 25, Deduct</i>	-14.10	
33 14 13 23-0419 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	357.47	21.15
<i>For DR 25, Deduct</i>	-18.91	
33 14 13 23-0420 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	572.61	35.24
<i>For DR 25, Deduct</i>	-30.13	
33 14 13 23-0421 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,528.53	42.29
<i>For DR 25, Deduct</i>	-86.64	
33 14 13 23-0422 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,069.85	52.85
<i>For DR 25, Deduct</i>	-117.85	
33 14 13 23-0423 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,549.44	70.47
<i>For DR 25, Deduct</i>	-144.51	
33 14 13 23-0424 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,045.24	88.10
<i>For DR 25, Deduct</i>	-172.14	
33 14 13 23-0425 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	4,136.98	118.92
<i>For DR 25, Deduct</i>	-233.95	
<b>33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)</b>		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
<b>33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)</b>		
33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	6.20	2.38
<i>For SDR 19, Add</i>	0.12	
<i>For SDR 17, Add</i>	0.31	
<i>For SDR 15.5, Add</i>	0.45	
<i>For SDR 13.5, Add</i>	0.70	
<i>For SDR 11, Add</i>	1.13	
33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	8.66	3.03
<i>For SDR 26, Deduct</i>	-0.48	
<i>For SDR 19, Add</i>	0.23	
<i>For SDR 17, Add</i>	0.58	
<i>For SDR 15.5, Add</i>	0.85	
<i>For SDR 13.5, Add</i>	1.32	
<i>For SDR 11, Add</i>	2.13	
33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	12.94	3.67
<i>For SDR 26, Deduct</i>	-1.03	
<i>For SDR 19, Add</i>	0.50	
<i>For SDR 17, Add</i>	1.24	
<i>For SDR 15.5, Add</i>	1.82	
<i>For SDR 13.5, Add</i>	2.84	
<i>For SDR 11, Add</i>	4.58	
33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	17.77	4.13
<i>For SDR 26, Deduct</i>	-1.74	
<i>For SDR 19, Add</i>	0.86	
<i>For SDR 17, Add</i>	2.11	
<i>For SDR 15.5, Add</i>	3.09	
<i>For SDR 13.5, Add</i>	4.83	
<i>For SDR 11, Add</i>	7.77	
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	23.96	4.59
<i>For SDR 26, Deduct</i>	-2.71	
<i>For SDR 19, Add</i>	1.33	
<i>For SDR 17, Add</i>	3.28	
<i>For SDR 15.5, Add</i>	4.81	
<i>For SDR 13.5, Add</i>	7.51	
<i>For SDR 11, Add</i>	12.08	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	31.50	51.41
<i>For SDR 26, Deduct</i>	-3.91	
<i>For SDR 19, Add</i>	1.92	
<i>For SDR 17, Add</i>	4.74	
<i>For SDR 15.5, Add</i>	6.93	
<i>For SDR 13.5, Add</i>	10.82	
<i>For SDR 11, Add</i>	17.42	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	36.52	5.78
<i>For SDR 26, Deduct</i>	-4.59	
<i>For SDR 19, Add</i>	2.25	
<i>For SDR 17, Add</i>	5.57	
<i>For SDR 15.5, Add</i>	8.15	
<i>For SDR 13.5, Add</i>	12.72	
<i>For SDR 11, Add</i>	20.48	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	45.58	6.42
<i>For SDR 26, Deduct</i>	-6.00	
<i>For SDR 19, Add</i>	2.95	
<i>For SDR 17, Add</i>	7.27	
<i>For SDR 15.5, Add</i>	10.65	
<i>For SDR 13.5, Add</i>	16.62	
<i>For SDR 11, Add</i>	26.76	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	56.83	7.71
<i>For SDR 26, Deduct</i>	-7.58	
<i>For SDR 19, Add</i>	3.72	
<i>For SDR 17, Add</i>	9.19	
<i>For SDR 15.5, Add</i>	13.46	
<i>For SDR 13.5, Add</i>	21.01	
<i>For SDR 11, Add</i>	33.81	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	62.84	9.18
For SDR 26, Deduct	-8.15	
For SDR 19, Add	4.00	
For SDR 17, Add	9.88	
For SDR 15.5, Add	14.47	
For SDR 13.5, Add	22.59	
For SDR 11, Add	36.36	
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	95.62	11.01
For SDR 26, Deduct	-13.49	
For SDR 19, Add	6.62	
For SDR 17, Add	16.35	
For SDR 15.5, Add	23.95	
For SDR 13.5, Add	37.38	
For SDR 11, Add	60.16	
<b>33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping</b> <sup>(33 14</sup>		
<sup>13 23-0426)</sup>		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	54.66	13.25
For SDR 26, Deduct	-2.73	
For SDR 19, Add	1.34	
For SDR 17, Add	3.31	
For SDR 15.5, Add	4.85	
For SDR 13.5, Add	7.57	
For SDR 11, Add	12.19	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	61.93	14.74
For SDR 26, Deduct	-3.26	
For SDR 19, Add	1.60	
For SDR 17, Add	3.95	
For SDR 15.5, Add	5.78	
For SDR 13.5, Add	9.03	
For SDR 11, Add	14.53	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	97.70	16.83
For SDR 26, Deduct	-8.66	
For SDR 19, Add	4.25	
For SDR 17, Add	10.50	
For SDR 15.5, Add	15.38	
For SDR 13.5, Add	24.00	
For SDR 11, Add	38.64	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	157.69	19.65
For SDR 26, Deduct	-18.11	
For SDR 19, Add	8.89	
For SDR 17, Add	21.95	
For SDR 15.5, Add	32.14	
For SDR 13.5, Add	50.17	
For SDR 11, Add	80.75	
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	243.40	26.24
For SDR 26, Deduct	-30.22	
For SDR 19, Add	14.84	
For SDR 17, Add	36.63	
For SDR 15.5, Add	53.65	
For SDR 13.5, Add	83.74	
For SDR 11, Add	134.78	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	359.18	39.26
For SDR 26, Deduct	-44.25	
For SDR 19, Add	21.73	
For SDR 17, Add	53.65	
For SDR 15.5, Add	78.56	
For SDR 13.5, Add	122.62	
For SDR 11, Add	197.37	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	444.94	52.40
For SDR 26, Deduct	-52.76	
For SDR 19, Add	25.90	
For SDR 17, Add	63.95	
For SDR 15.5, Add	93.66	
For SDR 13.5, Add	146.18	
For SDR 11, Add	235.29	
33 14 13 23-0447 EA 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	580.17	78.54
For SDR 26, Deduct	-63.18	
For SDR 19, Add	31.02	
For SDR 17, Add	76.59	
For SDR 15.5, Add	112.16	
For SDR 13.5, Add	175.06	
For SDR 11, Add	281.77	
33 14 13 23-0448 EA 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	734.06	88.34
For SDR 26, Deduct	-85.97	
For SDR 19, Add	42.21	
For SDR 17, Add	104.22	
For SDR 15.5, Add	152.62	
For SDR 13.5, Add	238.22	
For SDR 11, Add	383.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	1,009.20	100.26
<i>For SDR 26, Deduct</i>	-129.29	
<i>For SDR 19, Add</i>	63.48	
<i>For SDR 17, Add</i>	156.72	
<i>For SDR 15.5, Add</i>	229.51	
<i>For SDR 13.5, Add</i>	358.24	
<i>For SDR 11, Add</i>	576.61	
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	1,294.97	117.84
<i>For SDR 26, Deduct</i>	-172.60	
<i>For SDR 19, Add</i>	84.75	
<i>For SDR 17, Add</i>	209.23	
<i>For SDR 15.5, Add</i>	306.40	
<i>For SDR 13.5, Add</i>	478.25	
<i>For SDR 11, Add</i>	769.77	
<b>33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23-0426)</small></b>		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	61.02	13.87
<i>For SDR 26, Deduct</i>	-3.57	
<i>For SDR 19, Add</i>	1.76	
<i>For SDR 17, Add</i>	4.33	
<i>For SDR 15.5, Add</i>	6.35	
<i>For SDR 13.5, Add</i>	9.90	
<i>For SDR 11, Add</i>	15.94	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	70.04	15.71
<i>For SDR 26, Deduct</i>	-4.21	
<i>For SDR 19, Add</i>	2.07	
<i>For SDR 17, Add</i>	5.10	
<i>For SDR 15.5, Add</i>	7.47	
<i>For SDR 13.5, Add</i>	11.66	
<i>For SDR 11, Add</i>	18.76	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	114.33	18.13
<i>For SDR 26, Deduct</i>	-11.00	
<i>For SDR 19, Add</i>	5.40	
<i>For SDR 17, Add</i>	13.33	
<i>For SDR 15.5, Add</i>	19.52	
<i>For SDR 13.5, Add</i>	30.47	
<i>For SDR 11, Add</i>	49.05	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	216.44	21.43
<i>For SDR 26, Deduct</i>	-27.90	
<i>For SDR 19, Add</i>	13.70	
<i>For SDR 17, Add</i>	33.82	
<i>For SDR 15.5, Add</i>	49.53	
<i>For SDR 13.5, Add</i>	77.31	
<i>For SDR 11, Add</i>	124.44	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	294.79	31.45
<i>For SDR 26, Deduct</i>	-36.76	
<i>For SDR 19, Add</i>	18.05	
<i>For SDR 17, Add</i>	44.56	
<i>For SDR 15.5, Add</i>	65.26	
<i>For SDR 13.5, Add</i>	101.86	
<i>For SDR 11, Add</i>	163.95	
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	415.21	47.18
<i>For SDR 26, Deduct</i>	-50.19	
<i>For SDR 19, Add</i>	24.65	
<i>For SDR 17, Add</i>	60.85	
<i>For SDR 15.5, Add</i>	89.11	
<i>For SDR 13.5, Add</i>	139.08	
<i>For SDR 11, Add</i>	223.86	
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	498.84	58.92
<i>For SDR 26, Deduct</i>	-59.05	
<i>For SDR 19, Add</i>	28.99	
<i>For SDR 17, Add</i>	71.58	
<i>For SDR 15.5, Add</i>	104.83	
<i>For SDR 13.5, Add</i>	163.63	
<i>For SDR 11, Add</i>	263.37	
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	647.70	88.34
<i>For SDR 26, Deduct</i>	-70.13	
<i>For SDR 19, Add</i>	34.43	
<i>For SDR 17, Add</i>	85.01	
<i>For SDR 15.5, Add</i>	124.49	
<i>For SDR 13.5, Add</i>	194.31	
<i>For SDR 11, Add</i>	312.75	
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	840.26	102.91
<i>For SDR 26, Deduct</i>	-97.44	
<i>For SDR 19, Add</i>	47.84	
<i>For SDR 17, Add</i>	118.11	
<i>For SDR 15.5, Add</i>	172.97	
<i>For SDR 13.5, Add</i>	269.98	
<i>For SDR 11, Add</i>	434.56	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	1,188.25	121.55
<i>For SDR 26, Deduct</i>	-150.21	
<i>For SDR 19, Add</i>	73.76	
<i>For SDR 17, Add</i>	182.09	
<i>For SDR 15.5, Add</i>	266.67	
<i>For SDR 13.5, Add</i>	416.22	
<i>For SDR 11, Add</i>	669.94	



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0462	EA	24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping .....	1,549.13	147.35
		<i>For SDR 26, Deduct</i>	-202.99	
		<i>For SDR 19, Add</i>	99.67	
		<i>For SDR 17, Add</i>	246.07	
		<i>For SDR 15.5, Add</i>	360.36	
		<i>For SDR 13.5, Add</i>	562.47	
		<i>For SDR 11, Add</i>	905.33	
<b>33 14 13 26</b>		<b>Galvanized Steel Public Water Utility Distribution Piping</b> <small>(33 14 13)</small>		
		See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
<b>33 14 13 36</b>		<b>Steel Public Water Utility Distribution Piping</b> <small>(33 14 13)</small>		
33 14 13 36-0001		Steel Piping <small>(33 14 13 36)</small>		
33 14 13 36-0002		Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0001)</small>		
		Note: ASTM A252 steel pipe.		
33 14 13 36-0003		Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0004	LF	8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	66.22	23.18
		<i>For &gt;1,000, Deduct</i>	-3.31	
33 14 13 36-0005	LF	8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	76.11	23.18
		<i>For &gt;1,000, Deduct</i>	-3.81	
33 14 13 36-0006	LF	10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	77.25	25.29
		<i>For &gt;1,000, Deduct</i>	-3.86	
33 14 13 36-0007	LF	10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	89.76	25.29
		<i>For &gt;1,000, Deduct</i>	-4.49	
33 14 13 36-0008	LF	12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	90.74	26.49
		<i>For &gt;1,000, Deduct</i>	-4.54	
33 14 13 36-0009	LF	12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	100.47	26.49
		<i>For &gt;1,000, Deduct</i>	-5.02	
33 14 13 36-0010	LF	14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	108.05	29.28
		<i>For &gt;1,000, Deduct</i>	-5.40	
33 14 13 36-0011	LF	14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	115.83	29.28
		<i>For &gt;1,000, Deduct</i>	-5.79	
33 14 13 36-0012	LF	16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	114.57	30.92
		<i>For &gt;1,000, Deduct</i>	-5.73	
33 14 13 36-0013	LF	16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	120.58	30.92
		<i>For &gt;1,000, Deduct</i>	-6.03	
33 14 13 36-0014	LF	18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	139.60	34.77
		<i>For &gt;1,000, Deduct</i>	-6.98	
33 14 13 36-0015	LF	20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	149.44	34.77
		<i>For &gt;1,000, Deduct</i>	-7.47	
33 14 13 36-0016		5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0017	LF	12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	120.59	44.41
		<i>For &gt;1,000, Deduct</i>	-6.03	
33 14 13 36-0018	LF	14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	141.50	48.84
		<i>For &gt;1,000, Deduct</i>	-7.08	
33 14 13 36-0019	LF	16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	155.98	51.07
		<i>For &gt;1,000, Deduct</i>	-7.80	
33 14 13 36-0020	LF	18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	175.90	57.72
		<i>For &gt;1,000, Deduct</i>	-8.80	
33 14 13 36-0021	LF	18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	182.57	57.72
		<i>For &gt;1,000, Deduct</i>	-9.13	
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	188.74	57.72
		<i>For &gt;1,000, Deduct</i>	-9.44	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	195.86	57.72
		<i>For &gt;1,000, Deduct</i>	-9.79	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	226.59	66.61
		<i>For &gt;1,000, Deduct</i>	-11.33	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	248.61	66.61
		<i>For &gt;1,000, Deduct</i>	-12.43	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	302.67	66.61
		<i>For &gt;1,000, Deduct</i>	-15.13	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	279.38	77.71
		<i>For &gt;1,000, Deduct</i>	-13.97	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	288.39	77.71
		<i>For &gt;1,000, Deduct</i>	-14.42	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	373.36	77.71
		<i>For &gt;1,000, Deduct</i>	-18.67	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	326.10	77.71
		<i>For &gt;1,000, Deduct</i>	-16.31	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	383.30	93.25
		<i>For &gt;1,000, Deduct</i>	-19.17	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	449.20	93.25
		<i>For &gt;1,000, Deduct</i>	-22.46	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	432.74	93.25
		<i>For &gt;1,000, Deduct</i>	-21.64	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe .....	645.19	104.35
		<i>For &gt;1,000, Deduct</i>	-32.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	410.18	104.35
<i>For &gt;1,000, Deduct</i>	-20.51	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	738.84	117.67
<i>For &gt;1,000, Deduct</i>	-36.94	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	451.33	117.67
<i>For &gt;1,000, Deduct</i>	-22.57	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	779.08	133.22
<i>For &gt;1,000, Deduct</i>	-38.95	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	854.15	133.22
<i>For &gt;1,000, Deduct</i>	-42.71	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	958.04	155.42
<i>For &gt;1,000, Deduct</i>	-47.90	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	691.11	155.42
<i>For &gt;1,000, Deduct</i>	-34.56	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	795.94	126.59
<i>For &gt;1,000, Deduct</i>	-39.80	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,398.75	126.59
<i>For &gt;1,000, Deduct</i>	-69.94	
<b>33 14 13 36-0044 Flexible Couplings (Dresser Style 38) <small>(33 14 13 36-0001)</small></b>		
33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	104.56	24.01
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	153.31	46.18
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	204.02	60.96
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	325.68	92.35
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	426.63	116.36
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	573.19	134.12
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	679.57	168.09
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	731.80	168.09
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	772.98	178.82
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	847.43	205.65
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	924.41	232.46
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,170.01	245.87
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,405.31	268.23
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,649.25	301.75
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	1,905.18	339.75
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,216.14	391.16
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,456.68	447.05
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	2,824.44	558.81
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,252.30	679.51
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	3,875.97	804.69
<b>33 14 13 39 Copper Public Water Utility Distribution Piping <small>(33 14 13)</small></b>		
<b>33 14 13 39-0001 Type L Copper Water Distribution Piping <small>(33 14 13 39)</small></b>		
33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe.....	5.13	1.72
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe.....	6.06	1.93
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe.....	7.87	2.14
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe.....	9.59	2.57
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe.....	11.62	3.42
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe.....	16.06	4.27
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe.....	20.85	5.14
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe.....	25.45	5.65
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe.....	34.39	7.10
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe.....	45.06	8.98
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe.....	69.28	11.21
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe.....	88.61	13.52
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe.....	144.66	15.14
<b>33 14 13 39-0015 Type K Copper Water Distribution Piping <small>(33 14 13 39)</small></b>		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe.....	5.35	1.72
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe.....	6.85	1.93
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe.....	8.65	2.14
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe.....	10.07	2.57
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe.....	12.34	3.42
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe.....	17.03	4.27
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe.....	23.52	5.14
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe.....	29.46	5.65
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe.....	39.10	7.10
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe.....	52.21	8.98
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe.....	84.06	11.21
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe.....	115.20	13.52
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe.....	193.72	15.14
<b>33 14 13 43 Public Water Utility Distribution Piping Coatings And Wraps <small>(33 14 13)</small></b>		
<b>33 14 13 43-0001 Pipe Coatings <small>(33 14 13 43)</small></b>		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>33 14 13 43-0002</b>	<b>Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating</b> (33 14 13 43-0001)	
	Note: Applied at fabrication shop.	
33 14 13 43-0003	LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	4.04
33 14 13 43-0004	LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	5.37
33 14 13 43-0005	LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	6.13
33 14 13 43-0006	LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	6.44
33 14 13 43-0007	LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	6.94
33 14 13 43-0008	LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	8.08
33 14 13 43-0009	LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	10.61
33 14 13 43-0010	LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	16.76
33 14 13 43-0011	LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	36.14
33 14 13 43-0012	LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	41.30
33 14 13 43-0013	LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	46.46
33 14 13 43-0014	LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	51.62
33 14 13 43-0015	LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	56.78
33 14 13 43-0016	LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	61.92
33 14 13 43-0017	LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	67.11
<b>33 14 13 43-0018</b>	<b>Cement Coating With Fiberglass Or Wire Mesh Reinforcing</b> (33 14 13 43-0001)	
	Note: Applied at fabrication shop. Thickness ranging between 1" and 2".	
33 14 13 43-0019	LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh .....	8.18
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0020	LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh .....	10.07
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0021	LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh .....	12.59
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0022	LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh .....	14.02
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0023	LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh .....	15.84
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0024	LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh .....	18.53
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0025	LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh .....	21.05
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0026	LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh .....	23.75
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0027	LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh .....	26.40
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0028	LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh .....	31.67
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0029	LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh .....	39.59
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0030	LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh .....	47.51
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0031	LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh .....	25.10
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0032	LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh .....	28.68
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0033	LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh .....	32.27
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0034	LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh .....	35.85
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0035	LF 66" Diameter Cement Coated Pipe 1" To 2" Mesh .....	39.44
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0036	LF 72" Diameter Cement Coated Pipe 1" To 2" Mesh .....	43.02
	Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0037	LF 78" Diameter Cement Coated Pipe 1" To 2" Mesh .....	46.61
	Note: Reinforcing applied at fabrication shop.	
<b>33 14 13 43-0038</b>	<b>Pipe Lining</b> (33 14 13 43)	
<b>33 14 13 43-0039</b>	<b>Cement Pipe Lining</b> (33 14 13 43-0038)	
	Note: Shop applied.	
33 14 13 43-0040	LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	11.80
	For 1/2" Thick, Add .....	1.09
33 14 13 43-0041	LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	14.65
	For 1/2" Thick, Add .....	1.34
33 14 13 43-0042	LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	17.92
	For 1/2" Thick, Add .....	1.68
33 14 13 43-0043	LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	23.20
	For 1/2" Thick, Add .....	2.10
33 14 13 43-0044	LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	28.51
	For 1/2" Thick, Add .....	2.52
33 14 13 43-0045	LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	36.21
	For 1/2" Thick, Add .....	2.95
33 14 13 43-0046	LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining .....	46.56
	For 1/2" Thick, Add .....	3.35
33 14 13 43-0047	LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining .....	55.47
	For 1/2" Thick, Add .....	3.22
33 14 13 43-0048	LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining .....	66.71
	For 1/2" Thick, Add .....	3.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0049 LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	80.83	
For 1/2" Thick, Add	4.29	
33 14 13 43-0050 LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	97.47	
For 1/2" Thick, Add	5.36	
33 14 13 43-0051 LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	117.30	
For 1/2" Thick, Add	6.43	
33 14 13 43-0052 LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	136.86	
For 1/2" Thick, Add	5.52	
33 14 13 43-0053 LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	156.36	
For 1/2" Thick, Add	6.31	
33 14 13 43-0054 LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	175.93	
For 1/2" Thick, Add	7.10	
33 14 13 43-0055 LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	195.51	
For 1/2" Thick, Add	7.89	
33 14 13 43-0056 LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	215.00	
For 1/2" Thick, Add	4.63	
33 14 13 43-0057 LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	234.58	
For 1/2" Thick, Add	5.05	
33 14 13 43-0058 LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	254.16	
For 1/2" Thick, Add	5.47	
<b>33 14 13 43-0059 Cement Fitting Lining</b> (33 14 13 43-0038)		
Note: Shop applied.		
33 14 13 43-0060 EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	11.80	
For 1/2" Thick, Add	1.09	
33 14 13 43-0061 EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	14.65	
For 1/2" Thick, Add	1.34	
33 14 13 43-0062 EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	22.83	
For 1/2" Thick, Add	2.18	
33 14 13 43-0063 EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	37.44	
For 1/2" Thick, Add	3.36	
33 14 13 43-0064 EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	57.00	
For 1/2" Thick, Add	5.05	
33 14 13 43-0065 EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	84.01	
For 1/2" Thick, Add	6.79	
33 14 13 43-0066 EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	123.06	
For 1/2" Thick, Add	8.72	
33 14 13 43-0067 EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining.....	166.40	
For 1/2" Thick, Add	9.65	
33 14 13 43-0068 EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	222.25	
For 1/2" Thick, Add	11.91	
33 14 13 43-0069 EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	323.37	
For 1/2" Thick, Add	17.16	
<b>33 14 13 43-0070 8 Mil Polyethylene Encasement Tubing</b> (33 14 13 43)		
Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0071 LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	0.84	
33 14 13 43-0072 LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.39	
33 14 13 43-0073 LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.74	
33 14 13 43-0074 LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.21	
33 14 13 43-0075 LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.06	
33 14 13 43-0076 LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.95	
33 14 13 43-0077 LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.02	
33 14 13 43-0078 LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.99	
33 14 13 43-0079 LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.13	
33 14 13 43-0080 LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.92	
<b>33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters</b> (33 14 13)		
<b>33 14 13 53-0001 Double Stud Stainless Steel Service Saddles</b> (33 14 13 53)		
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002 EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	225.95	
33 14 13 53-0003 EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	324.53	
33 14 13 53-0004 EA 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	334.46	
33 14 13 53-0005 EA 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	273.26	
33 14 13 53-0006 EA 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	346.33	
33 14 13 53-0007 EA 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	285.02	
33 14 13 53-0008 EA 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	362.37	
33 14 13 53-0009 EA 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	322.51	
33 14 13 53-0010 EA 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	381.69	
33 14 13 53-0011 EA 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	335.91	
33 14 13 53-0012 EA 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	392.52	
<b>33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles</b> (33 14 13 53)		
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014 EA 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	184.12	
33 14 13 53-0015 EA 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	184.27	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	195.97	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	187.71	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	200.89	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	223.23	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	237.54	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	216.46	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	239.00	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	251.01	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	228.29	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	251.60	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	263.54	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	240.60	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	263.18	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	274.95	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	414.83	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	424.77	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	261.35	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	288.94	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	299.75	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	494.00	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	294.55	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	327.91	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	554.12	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	321.60	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	356.98	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	369.51	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	621.08	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	379.06	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	406.47	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	438.84	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	770.17	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	389.00	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	446.11	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	464.74	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	829.15	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	406.56	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	465.83	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	484.98	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	863.03	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	452.32	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	525.81	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	519.10	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	575.84	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	542.40	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	614.54	

### 33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)

33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	259.94	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	285.00	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	295.98	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	321.29	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	331.42	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	348.34	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	319.01	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	339.76	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	411.02	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	445.56	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	632.00	
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	716.64	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	737.37	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	825.64	

### 33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)

Note: Taps are compression or NPT.

33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	274.32	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	303.15	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	312.96	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	340.70	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	352.42	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	370.47	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	399.06	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	427.71	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	430.27	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	467.28	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	679.69	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	784.08	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	793.95	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	866.71	
33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,162.99	
33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,162.99	
33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,209.79	
33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,209.79	
33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,298.01	
33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,298.01	

**33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)**

33 14 13 53-0098 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,258.25	
33 14 13 53-0099 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,517.55	
33 14 13 53-0100 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,818.12	
33 14 13 53-0101 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,927.29	
33 14 13 53-0102 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	2,976.16	
33 14 13 53-0103 EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,130.01	
33 14 13 53-0104 EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,194.46	
33 14 13 53-0105 EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,125.25	
33 14 13 53-0106 EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,278.48	
33 14 13 53-0107 EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,655.74	
33 14 13 53-0108 EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,749.47	
33 14 13 53-0109 EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,365.22	
33 14 13 53-0110 EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,538.72	
33 14 13 53-0111 EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,615.23	
33 14 13 53-0112 EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,646.56	
33 14 13 53-0113 EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,891.02	
33 14 13 53-0114 EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,875.76	
33 14 13 53-0115 EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	6,895.65	
33 14 13 53-0116 EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,089.84	
33 14 13 53-0117 EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,133.54	
33 14 13 53-0118 EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,181.93	
33 14 13 53-0119 EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,115.13	
33 14 13 53-0120 EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,530.93	
33 14 13 53-0121 EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,612.81	
33 14 13 53-0122 EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,054.72	
33 14 13 53-0123 EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,171.84	
33 14 13 53-0124 EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,534.51	
33 14 13 53-0125 EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	8,952.52	
33 14 13 53-0126 EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	8,612.02	
33 14 13 53-0127 EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	8,778.88	
33 14 13 53-0128 EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	8,842.38	
33 14 13 53-0129 EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,169.57	
33 14 13 53-0130 EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	12,486.69	
33 14 13 53-0131 EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	12,723.52	
33 14 13 53-0132 EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,836.90	
33 14 13 53-0133 EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,984.83	
33 14 13 53-0134 EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,026.05	
33 14 13 53-0135 EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	15,378.33	
33 14 13 53-0136 EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	15,574.57	
33 14 13 53-0137 EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	15,614.32	
33 14 13 53-0138 EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	16,045.30	
33 14 13 53-0139 EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	16,247.18	

**33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)**

33 14 13 53-0141 EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,038.45	
33 14 13 53-0142 EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,095.19	
33 14 13 53-0143 EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,201.75	
33 14 13 53-0144 EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,230.26	
33 14 13 53-0145 EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,281.88	
33 14 13 53-0146 EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,483.47	
33 14 13 53-0147 EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,339.22	
33 14 13 53-0148 EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,389.42	
33 14 13 53-0149 EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,566.25	
33 14 13 53-0150 EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,202.47	
33 14 13 53-0151 EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,500.68	
33 14 13 53-0152 EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,575.68	
33 14 13 53-0153 EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,749.66	
33 14 13 53-0154 EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,319.29	
33 14 13 53-0155 EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,538.17	
33 14 13 53-0156 EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,993.25	
33 14 13 53-0157 EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,054.80	
33 14 13 53-0158 EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,431.51	
33 14 13 53-0159 EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,899.28	
33 14 13 53-0160 EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,202.42	
33 14 13 53-0161 EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,375.46	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,439.08	
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,687.47	
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,357.79	
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,513.94	
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,504.07	
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,621.77	
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,786.41	
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,575.71	
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,731.68	
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,036.17	
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,099.65	
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,472.85	
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,105.97	
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,372.89	
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,268.90	
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,411.58	
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,605.28	
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,505.12	
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,667.87	

**33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)**

33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,211.26	
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,313.45	
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,391.94	
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,412.83	
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,503.68	
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,781.00	
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,621.87	
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,722.95	
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,971.20	
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,692.01	
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,847.67	
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,986.52	
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,315.45	
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,744.89	
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,072.50	
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,107.58	
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,278.59	
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,649.33	
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,079.19	
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,305.15	
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,583.14	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,818.00	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,996.28	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,458.70	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,771.43	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,839.29	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,191.80	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,377.97	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,783.96	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,322.06	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,055.97	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,407.55	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,558.26	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,316.33	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,736.95	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,634.48	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,681.96	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,863.27	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,768.72	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,250.59	

**33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)**

33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	307.18	53.72
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	384.84	67.73
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	505.32	93.42
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	656.69	109.77
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,038.92	123.78
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,160.34	140.14

**33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)**

33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	452.14	53.72
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	533.99	67.73
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	712.50	93.42
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	872.31	109.77
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,066.58	123.78
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,243.52	140.14
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,479.35	154.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0237 EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) .....	1,754.33	168.16
33 14 13 53-0238 EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) .....	2,073.96	184.98
33 14 13 53-0239 EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) .....	2,453.22	203.48
<b>33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)</b>		
33 14 13 53-0241 EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	394.53	67.73
33 14 13 53-0242 EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	529.25	93.42
33 14 13 53-0243 EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	585.08	109.77
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	859.89	123.78
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	1,097.93	140.14
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	1,231.91	154.15
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	1,450.11	168.16
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	1,627.94	184.98
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	1,959.36	203.48
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	2,363.60	223.84
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	4,956.85	246.17
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) .....	6,699.16	270.83
<b>33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)</b>		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	136.87	37.36
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	169.09	44.38
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	209.51	53.72
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	263.08	67.73
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	350.50	93.42
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	426.44	109.77
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	534.81	123.78
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	626.14	140.14
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	886.91	154.15
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) .....	1,110.11	168.16
<b>33 14 19 Valves and Hydrants for Water Utility Service (33 14)</b>		
Note: Flanged valves excludes bolt and gasket set.		
<b>33 14 19 00-0001 Accessories For Valves (33 14 19)</b>		
33 14 19 00-0002 EA 1' Valve Extension Stem .....	82.51	
For Each Additional LF, Add		5.67
33 14 19 00-0003 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly .....	1,006.05	92.35
Note: Excludes valve.		
33 14 19 00-0004 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly .....	1,139.22	101.58
Note: Excludes valve.		
33 14 19 00-0005 EA Adjust Water Valve Box To Grade .....	92.35	
<b>33 14 19 00-0006 Roadway Or Curb Valve Boxes (33 14 19)</b>		
<b>33 14 19 00-0007 Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 19 00-0006)</b>		
33 14 19 00-0008 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	179.20	12.19
Note: Includes cover, top section and bottom section.		
33 14 19 00-0009 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	207.59	12.19
Note: Includes cover, top section and bottom section.		
33 14 19 00-0010 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	208.90	12.19
Note: Includes cover, top section and bottom section.		
33 14 19 00-0011 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	54.61	6.10
33 14 19 00-0012 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	62.12	6.10
33 14 19 00-0013 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box .....	73.43	6.10
33 14 19 00-0014 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box .....	269.27	15.24
Note: Includes cover, top section and bottom section.		
33 14 19 00-0015 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	464.84	21.33
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0016 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	517.78	21.33
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0017 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	279.78	15.24
Note: Includes cover, top section and bottom section.		
33 14 19 00-0018 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	292.43	15.24
Note: Includes cover, top section and bottom section.		
33 14 19 00-0019 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	282.76	15.24
Note: Includes cover, top section and bottom section.		
33 14 19 00-0020 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	102.65	6.10
33 14 19 00-0021 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes .....	174.66	25.08
33 14 19 00-0022 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes .....	180.40	26.07
33 14 19 00-0023 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes .....	200.74	27.08
33 14 19 00-0024 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Boxes .....	273.54	28.59
33 14 19 00-0025 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes .....	329.15	30.08
33 14 19 00-0026 EA 18" Cast Iron Service Box Extension Section .....	76.68	
<b>33 14 19 00-0027 Plastic Roadway Grade Water Meter Box And Cover (33 14 19 00-0006)</b>		
33 14 19 00-0028 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover .....	251.94	35.10
33 14 19 00-0029 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover .....	189.33	25.08

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0030 EA Cast Iron Lid For Plastic Meter Box.....	56.19	
<b>33 14 19 00-0031 Traffic Valve Box And Lid</b> <small>(33 14 19 00-0006)</small>		
33 14 19 00-0032 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5) .....	150.15	
33 14 19 00-0033 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12) .....	443.44	
<b>33 14 19 00-0034 Roadway Utility Box</b> <small>(33 14 19)</small>		
<b>33 14 19 00-0035 Utility Box</b> <small>(33 14 19 00-0034)</small>		
Note: Christy Concrete Products.		
<b>33 14 19 00-0036 B3 Utility Box, 9-3/8" x 15-1/2"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0037 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box .....	72.34	45.52
33 14 19 00-0038 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box .....	54.56	5.06
33 14 19 00-0039 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box .....	25.75	5.06
33 14 19 00-0040 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box .....	113.14	5.06
33 14 19 00-0041 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box.....	39.54	10.11
33 14 19 00-0042 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box.....	52.27	10.11
<b>33 14 19 00-0043 B9 Utility Box, 10-1/4" x 17-1/4"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0044 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box .....	90.57	60.70
33 14 19 00-0045 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box .....	64.07	6.07
33 14 19 00-0046 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box .....	29.05	6.07
33 14 19 00-0047 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box .....	118.44	5.06
33 14 19 00-0048 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	43.04	10.11
33 14 19 00-0049 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box .....	59.31	15.17
33 14 19 00-0050 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box .....	80.41	27.81
<b>33 14 19 00-0051 B12 Utility Box, 12" x 20"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0052 EA 12" x 20" Precast Concrete Utility Box .....	99.06	65.75
33 14 19 00-0053 EA Cast Iron Lid For 12" x 20" Utility Box .....	111.92	7.59
33 14 19 00-0054 EA Reinforced Concrete Lid For 12" x 20" Utility Box .....	41.00	10.11
33 14 19 00-0055 EA Steel Checkered Plate Cover For 12" x 20" Utility Box .....	162.72	10.11
33 14 19 00-0056 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box .....	103.95	35.41
<b>33 14 19 00-0057 B16 Utility Box, 12" x 22-1/4"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0058 EA 12" x 22-1/4" Precast Concrete Utility Box .....	114.65	76.88
33 14 19 00-0059 EA Cast Iron Lid For 12" x 22-1/4" Utility Box .....	128.05	10.11
33 14 19 00-0060 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box .....	48.21	10.11
33 14 19 00-0061 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box .....	163.58	10.11
33 14 19 00-0062 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box .....	70.79	17.19
33 14 19 00-0063 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box .....	105.15	35.41
<b>33 14 19 00-0064 B30 Utility Box, 13-1/4" x 24"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0065 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX) .....	137.30	91.04
33 14 19 00-0066 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D) .....	67.58	16.18
33 14 19 00-0067 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	202.88	13.15
33 14 19 00-0068 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL) .....	70.79	17.19
33 14 19 00-0069 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA) .....	110.47	28.32
33 14 19 00-0070 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6) .....	83.29	19.22
33 14 19 00-0071 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12) .....	135.89	45.52
<b>33 14 19 00-0072 B36 Utility Box, 17-1/4" x 30"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0073 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	177.55	115.32
33 14 19 00-0074 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D) .....	111.59	27.81
33 14 19 00-0075 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	257.14	19.22
33 14 19 00-0076 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL) .....	112.21	36.42
33 14 19 00-0077 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA) .....	168.14	40.47
33 14 19 00-0078 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12) .....	179.28	58.67
<b>33 14 19 00-0079 B40 Utility Box, 24-1/2" x 36"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0080 EA 24-1/2" x 36" Precast Concrete Utility Box .....	336.25	178.04
33 14 19 00-0081 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box .....	295.75	66.76
33 14 19 00-0082 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box .....	367.32	29.33
33 14 19 00-0083 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box .....	250.17	62.72
33 14 19 00-0084 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box .....	264.61	65.75
<b>33 14 19 00-0085 B48 Utility Box, 30-1/4" x 48-1/4"</b> <small>(33 14 19 00-0035)</small>		
33 14 19 00-0086 EA 30-1/4" x 48-1/4" Precast Concrete Utility Box .....	446.79	202.32
33 14 19 00-0087 EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	426.40	110.27
33 14 19 00-0088 EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	508.08	110.27





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0089 EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box .....	585.78	50.58
33 14 19 00-0090 EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box .....	410.22	136.56
33 14 19 00-0091 EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box .....	338.13	92.05
<b>33 14 19 00-0092 Water Utility Distribution Valves (33 14 19)</b>		
<b>33 14 19 00-0093 Angle Valves (33 14 19 00-0092)</b>		
Note: For connecting meters to water service.		
<b>33 14 19 00-0094 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0093)</b>		
Note: Nibco T-335Y		
33 14 19 00-0095 EA 1/2" Threaded, Class 150, Bronze Angle Valve .....	90.38	16.05
33 14 19 00-0096 EA 3/4" Threaded, Class 150, Bronze Angle Valve .....	121.89	21.56
33 14 19 00-0097 EA 1" Threaded, Class 150, Bronze Angle Valve .....	164.23	26.58
33 14 19 00-0098 EA 1-1/4" Threaded, Class 150, Bronze Angle Valve .....	211.46	33.39
33 14 19 00-0099 EA 1-1/2" Threaded, Class 150, Bronze Angle Valve .....	264.11	38.61
33 14 19 00-0100 EA 2" Threaded, Class 150, Bronze Angle Valve .....	394.18	45.13
33 14 19 00-0101 EA 2-1/2" Threaded, Class 150, Bronze Angle Valve .....	631.51	61.60
33 14 19 00-0102 EA 3" Threaded, Class 150, Bronze Angle Valve .....	958.98	71.12
<b>33 14 19 00-0103 Butterfly Valves (33 14 19 00-0092)</b>		
<b>33 14 19 00-0104 Lug Type Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves (33 14 19 00-0103)</b>		
33 14 19 00-0105 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	1,578.39	170.49
33 14 19 00-0106 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	1,752.39	170.49
33 14 19 00-0107 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	1,711.83	263.86
33 14 19 00-0108 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	1,885.83	263.86
33 14 19 00-0109 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	1,968.21	313.44
33 14 19 00-0110 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	2,142.21	313.44
33 14 19 00-0111 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	2,231.52	400.51
33 14 19 00-0112 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	2,404.52	400.51
33 14 19 00-0113 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	2,796.47	487.58
33 14 19 00-0114 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	2,796.47	487.58
33 14 19 00-0115 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8) .....	3,206.75	590.99
33 14 19 00-0116 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8) .....	3,380.75	590.99
33 14 19 00-0117 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12) .....	4,216.29	761.03
33 14 19 00-0118 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12) .....	4,671.29	761.03
33 14 19 00-0119 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16) .....	4,908.42	837.14
33 14 19 00-0120 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20) .....	5,466.42	837.14
33 14 19 00-0121 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24) .....	6,146.58	928.46
33 14 19 00-0122 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24) .....	6,737.58	928.46
33 14 19 00-0123 EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24) .....	7,043.02	1,046.42



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0124 EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24).....	7,633.02	1,046.42
33 14 19 00-0125 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-HD30).....	11,471.30	1,284.24
33 14 19 00-0126 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-CW20).....	11,507.30	1,284.24
33 14 19 00-0127 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	24,008.36	2,185.88
33 14 19 00-0128 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	28,370.14	2,914.51
33 14 19 00-0129 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32).....	35,813.71	4,371.77
33 14 19 00-0130 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24).....	48,734.88	5,464.71
<b>33 14 19 00-0131 Check Valves</b> (33 14 19 00-0092)		
<b>33 14 19 00-0132 Flanged, Swing Type Gravity Operated Check Valves</b> (33 14 19 00-0131) Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0133 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	780.61	133.91
33 14 19 00-0134 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....	809.19	157.00
33 14 19 00-0135 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....	1,150.30	198.56
33 14 19 00-0136 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,556.81	298.76
33 14 19 00-0137 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,624.53	333.66
33 14 19 00-0138 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,553.83	332.47
33 14 19 00-0139 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	2,011.89	377.92
33 14 19 00-0140 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	2,108.61	424.83
33 14 19 00-0141 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	2,191.59	424.83
33 14 19 00-0142 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	3,631.89	517.18
33 14 19 00-0143 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	5,449.02	387.88
33 14 19 00-0144 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	7,561.14	761.03
33 14 19 00-0145 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	10,004.89	837.14
33 14 19 00-0146 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	14,429.08	928.46
33 14 19 00-0147 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	16,788.92	1,046.42
<b>33 14 19 00-0148 Combination Air Release Valves</b> (33 14 19 00-0092)		
33 14 19 00-0149 EA 1" Combination Air Release Valve.....	436.12	19.39
33 14 19 00-0150 EA 2" Combination Air Release Valve.....	704.72	33.24
<b>33 14 19 00-0151 Corporation Stop And Curb Valve</b> (33 14 19 00-0092) Note: AWWA C800		
<b>33 14 19 00-0152 Ball Corporation Valves</b> (33 14 19 00-0151) Note: Mueller B-25000.		
33 14 19 00-0153 EA 3/4" Ball Corporation Valve (Mueller B-25000).....	73.66	19.39
33 14 19 00-0154 EA 1" Ball Corporation Valve (Mueller B-25000).....	92.53	24.01
33 14 19 00-0155 EA 1-1/2" Ball Corporation Valve (Mueller B-25000).....	165.41	35.10
33 14 19 00-0156 EA 2" Ball Corporation Valve (Mueller B-25000).....	248.75	41.56
<b>33 14 19 00-0157 Gate Valve, AWWA C500 And C509</b> (33 14 19 00-0092)		
<b>33 14 19 00-0158 Gate Valve, Flanged</b> (33 14 19 00-0157) Note: Mueller A-2380-6.		
33 14 19 00-0159 EA 2" Gate Valve, Flanged.....	499.60	123.11
33 14 19 00-0160 EA 2-1/2" Gate Valve, Flanged.....	580.67	133.91
33 14 19 00-0161 EA 3" Gate Valve, Flanged.....	686.33	157.00
33 14 19 00-0162 EA 4" Gate Valve, Flanged.....	940.80	196.71
33 14 19 00-0163 EA 6" Gate Valve, Flanged.....	1,148.81	332.47
33 14 19 00-0164 EA 8" Gate Valve, Flanged.....	1,671.19	424.83
33 14 19 00-0165 EA 10" Gate Valve, Flanged.....	2,463.54	517.18
33 14 19 00-0166 EA 12" Gate Valve, Flanged.....	2,969.63	387.88
33 14 19 00-0167 EA 14" Gate Valve, Flanged.....	6,190.82	761.03
33 14 19 00-0168 EA 16" Gate Valve, Flanged.....	8,047.97	837.14
33 14 19 00-0169 EA 18" Gate Valve, Flanged.....	12,620.91	928.46
33 14 19 00-0170 EA 20" Gate Valve, Flanged.....	15,072.10	1,046.42
<b>33 14 19 00-0171 Resilient Wedge Gate Valve, Flanged</b> (33 14 19 00-0157) Note: Mueller A-2360-6.		
33 14 19 00-0172 EA 2" Resilient Wedge Gate Valve, Flanged.....	480.05	123.11
33 14 19 00-0173 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	557.31	133.91
33 14 19 00-0174 EA 3" Resilient Wedge Gate Valve, Flanged.....	658.60	157.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0175 EA 4" Resilient Wedge Gate Valve, Flanged .....	909.81	196.71
33 14 19 00-0176 EA 6" Resilient Wedge Gate Valve, Flanged .....	1,107.38	332.47
33 14 19 00-0177 EA 8" Resilient Wedge Gate Valve, Flanged .....	1,606.47	424.83
33 14 19 00-0178 EA 10" Resilient Wedge Gate Valve, Flanged .....	2,360.70	517.18
33 14 19 00-0179 EA 12" Resilient Wedge Gate Valve, Flanged .....	2,845.46	387.88
<b>33 14 19 00-0180 Gate Valve, Mechanical Joint (33 14 19 00-0157)</b>		
Note: Mueller A-2380-20.		
33 14 19 00-0181 EA 2" Gate Valve, Mechanical Joint .....	591.09	98.36
33 14 19 00-0182 EA 2-1/2" Gate Valve, Mechanical Joint .....	651.38	123.29
33 14 19 00-0183 EA 3" Gate Valve, Mechanical Joint .....	814.67	149.15
33 14 19 00-0184 EA 4" Gate Valve, Mechanical Joint .....	984.07	196.71
33 14 19 00-0185 EA 6" Gate Valve, Mechanical Joint .....	1,226.32	230.88
33 14 19 00-0186 EA 8" Gate Valve, Mechanical Joint .....	1,743.56	277.06
33 14 19 00-0187 EA 10" Gate Valve, Mechanical Joint .....	2,494.93	323.23
33 14 19 00-0188 EA 12" Gate Valve, Mechanical Joint .....	3,112.15	387.88
33 14 19 00-0189 EA 14" Gate Valve, Mechanical Joint .....	6,560.48	466.13
33 14 19 00-0190 EA 16" Gate Valve, Mechanical Joint .....	8,446.17	523.21
33 14 19 00-0191 EA 18" Gate Valve, Mechanical Joint .....	13,333.93	580.28
33 14 19 00-0192 EA 20" Gate Valve, Mechanical Joint .....	15,841.67	654.01
<b>33 14 19 00-0193 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0157)</b>		
Note: Mueller A-2360-20.		
33 14 19 00-0194 EA 2" Resilient Wedge Gate Valve, Mechanical Joint .....	568.77	98.36
33 14 19 00-0195 EA 3" Resilient Wedge Gate Valve, Mechanical Joint .....	785.44	149.15
33 14 19 00-0196 EA 4" Resilient Wedge Gate Valve, Mechanical Joint .....	950.63	196.71
33 14 19 00-0197 EA 6" Resilient Wedge Gate Valve, Mechanical Joint .....	1,183.05	230.88
33 14 19 00-0198 EA 8" Resilient Wedge Gate Valve, Mechanical Joint .....	1,676.24	277.06
33 14 19 00-0199 EA 10" Resilient Wedge Gate Valve, Mechanical Joint .....	2,390.30	323.23
33 14 19 00-0200 EA 12" Resilient Wedge Gate Valve, Mechanical Joint .....	2,979.88	387.88
<b>33 14 19 00-0201 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0157)</b>		
Note: Mueller A-2361.		
33 14 19 00-0202 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint .....	4,947.70	761.03
33 14 19 00-0203 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint .....	5,382.27	837.14
33 14 19 00-0204 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint .....	8,256.44	928.46
33 14 19 00-0205 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint .....	9,832.26	1,046.42
33 14 19 00-0206 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint .....	13,892.50	1,284.24
<b>33 14 19 00-0207 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0157)</b>		
Note: NIBCO T-113.		
33 14 19 00-0208 EA 1/4" Gate Valve, Bronze, Threaded .....	52.61	16.15
33 14 19 00-0209 EA 3/8" Gate Valve, Bronze, Threaded .....	54.14	16.15
33 14 19 00-0210 EA 1/2" Gate Valve, Bronze, Threaded .....	53.54	16.15
33 14 19 00-0211 EA 3/4" Gate Valve, Bronze, Threaded .....	68.85	21.81
33 14 19 00-0212 EA 1" Gate Valve, Bronze, Threaded .....	84.93	26.37
33 14 19 00-0213 EA 1-1/4" Gate Valve, Bronze, Threaded .....	115.68	33.39
33 14 19 00-0214 EA 1-1/2" Gate Valve, Bronze, Threaded .....	134.25	38.61
33 14 19 00-0215 EA 2" Gate Valve, Bronze, Threaded .....	163.02	45.13
33 14 19 00-0216 EA 2-1/2" Gate Valve, Bronze, Threaded .....	316.54	61.60
33 14 19 00-0217 EA 3" Gate Valve, Bronze, Threaded .....	379.69	70.65
<b>33 14 19 00-0218 Globe Valve, AWWA (33 14 19 00-0092)</b>		
<b>33 14 19 00-0219 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0218)</b>		
Note: NIBCO T-235.		
33 14 19 00-0220 EA 1/8" Globe Valve, Threaded .....	74.84	16.15
33 14 19 00-0221 EA 1/4" Globe Valve, Threaded .....	71.75	16.15
33 14 19 00-0222 EA 3/8" Globe Valve, Threaded .....	73.28	16.15
33 14 19 00-0223 EA 1/2" Globe Valve, Threaded .....	74.84	16.15
33 14 19 00-0224 EA 3/4" Globe Valve, Threaded .....	101.65	21.81
33 14 19 00-0225 EA 1" Globe Valve, Threaded .....	143.01	26.37
33 14 19 00-0226 EA 1-1/4" Globe Valve, Threaded .....	209.55	33.39
33 14 19 00-0227 EA 1-1/2" Globe Valve, Threaded .....	250.26	38.61
33 14 19 00-0228 EA 2" Globe Valve, Threaded .....	349.97	45.13
33 14 19 00-0229 EA 2-1/2" Globe Valve, Threaded .....	644.38	61.60
33 14 19 00-0230 EA 3" Globe Valve, Threaded .....	883.42	71.02
<b>33 14 19 00-0231 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0092)</b>		
<b>33 14 19 00-0232 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0231)</b>		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0233 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	685.97	123.11
33 14 19 00-0234 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	883.25	157.00
33 14 19 00-0235 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	1,131.02	196.71
33 14 19 00-0236 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	1,439.49	332.47

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0237 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,043.99	424.83
33 14 19 00-0238 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,916.58	517.18
33 14 19 00-0239 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,245.30	387.88
33 14 19 00-0240 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	7,502.97	761.03
33 14 19 00-0241 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	9,437.43	837.14
33 14 19 00-0242 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	15,084.65	928.46
<b>33 14 19 00-0243 Fire Hydrants (33 14 19)</b>		
Note: Breakaway type.		
<b>33 14 19 00-0244 Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0243)</b>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0245 EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,524.70	243.79
33 14 19 00-0246 EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,591.21	243.79
33 14 19 00-0247 EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,657.89	243.79
33 14 19 00-0248 EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,741.67	261.21
33 14 19 00-0249 EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,808.25	261.21
33 14 19 00-0250 EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,896.65	282.97
33 14 19 00-0251 EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,963.12	282.97
33 14 19 00-0252 EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,051.55	304.74
33 14 19 00-0253 EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,118.12	304.74
33 14 19 00-0254 EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,206.35	326.50
33 14 19 00-0255 EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,294.67	348.27
33 14 19 00-0256 EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,404.65	391.80
33 14 19 00-0257 EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,585.40	243.79
33 14 19 00-0258 EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,671.71	243.79
33 14 19 00-0259 EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,757.81	243.79
33 14 19 00-0260 EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,861.33	261.21
33 14 19 00-0261 EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,947.43	261.21
33 14 19 00-0262 EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,055.61	282.97
33 14 19 00-0263 EA 4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,141.60	282.97
33 14 19 00-0264 EA 5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,249.56	304.74
33 14 19 00-0265 EA 5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,335.64	304.74
33 14 19 00-0266 EA 6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,443.35	326.50
33 14 19 00-0267 EA 6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,551.43	348.27
33 14 19 00-0268 EA 7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,680.91	391.80
<b>33 14 19 00-0269 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0243)</b>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0270 EA 1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,159.62	243.79
33 14 19 00-0271 EA 2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,225.90	243.79
33 14 19 00-0272 EA 2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,292.56	243.79
33 14 19 00-0273 EA 3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,376.62	261.21
33 14 19 00-0274 EA 3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,442.98	261.21
33 14 19 00-0275 EA 4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,531.23	282.97
33 14 19 00-0276 EA 4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,597.80	282.97
33 14 19 00-0277 EA 5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,686.29	304.74
33 14 19 00-0278 EA 5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,752.72	304.74
33 14 19 00-0279 EA 6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,841.31	326.50
33 14 19 00-0280 EA 6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,929.21	348.27
33 14 19 00-0281 EA 7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,039.33	391.80
33 14 19 00-0282 EA 1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,253.38	243.79
33 14 19 00-0283 EA 2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,339.50	243.79
33 14 19 00-0284 EA 2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,425.49	243.79
33 14 19 00-0285 EA 3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,529.23	261.21
33 14 19 00-0286 EA 3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,615.11	261.21
33 14 19 00-0287 EA 4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,723.14	282.97
33 14 19 00-0288 EA 4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,809.07	282.97
33 14 19 00-0289 EA 5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,917.31	304.74
33 14 19 00-0290 EA 5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,003.19	304.74
33 14 19 00-0291 EA 6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,111.20	326.50
33 14 19 00-0292 EA 6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,218.86	348.27
33 14 19 00-0293 EA 7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,348.81	391.80
<b>33 14 19 00-0294 Three Way, Modern Model Fire Hydrant (33 14 19 00-0243)</b>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0295 EA 1-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,679.92	243.79
33 14 19 00-0296 EA 2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,765.91	243.79
33 14 19 00-0297 EA 2-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,852.16	243.79
33 14 19 00-0298 EA 3" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,955.73	261.21
33 14 19 00-0299 EA 3-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,041.78	261.21
33 14 19 00-0300 EA 4" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,149.64	282.97
33 14 19 00-0301 EA 4-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,235.81	282.97
33 14 19 00-0302 EA 5" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,343.70	304.74
33 14 19 00-0303 EA 5-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,429.78	304.74
33 14 19 00-0304 EA 6" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,537.64	304.74
33 14 19 00-0305 EA 6-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,645.77	348.27
33 14 19 00-0306 EA 7" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,774.35	348.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 14 19 00-0307</b> <b>Two Way, Modern Model Fire Hydrant</b> <small>(33 14 19 00-0243)</small>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0308 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	2,601.66	243.79
33 14 19 00-0309 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,667.10	243.79
33 14 19 00-0310 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	2,733.27	243.79
33 14 19 00-0311 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,815.36	261.21
33 14 19 00-0312 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	2,880.78	261.21
33 14 19 00-0313 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,967.96	282.97
33 14 19 00-0314 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	3,033.36	282.97
33 14 19 00-0315 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,120.63	304.74
33 14 19 00-0316 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	3,185.86	304.74
33 14 19 00-0317 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,273.06	326.50
33 14 19 00-0318 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant .....	3,360.34	348.27
33 14 19 00-0319 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,468.48	391.80
 <b>33 14 19 00-0320</b> <b>Safetop Model With Breakable Section</b> <small>(33 14 19 00-0243)</small>		
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0321 EA 4" Safetop Model Fire Hydrant Breakable With 5' Burial Section .....	2,751.87	348.27
33 14 19 00-0322 EA 6" Safetop Model Fire Hydrant Breakable With 5' Burial Section .....	2,873.63	348.27
33 14 19 00-0323 EA 8" Safetop Model Fire Hydrant Breakable With 5' Burial Section .....	3,061.37	348.27
 <b>33 14 19 00-0324</b> <b>Fire Hydrant Extension Kits</b> <small>(33 14 19 00-0243)</small>		
33 14 19 00-0325 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	534.27	21.77
33 14 19 00-0326 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	633.59	27.21
33 14 19 00-0327 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	688.37	32.65
33 14 19 00-0328 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	779.58	40.27
33 14 19 00-0329 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,194.32	41.91
33 14 19 00-0330 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,276.71	43.53
33 14 19 00-0331 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,294.76	45.71
33 14 19 00-0332 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,366.91	48.98
33 14 19 00-0333 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,502.65	58.77
33 14 19 00-0334 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit .....	1,577.83	70.74
33 14 19 00-0335 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	594.58	24.38
33 14 19 00-0336 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	702.55	29.60
33 14 19 00-0337 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	804.87	35.70
33 14 19 00-0338 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	895.93	44.41
33 14 19 00-0339 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,240.02	46.15
33 14 19 00-0340 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,323.38	47.89
33 14 19 00-0341 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,379.68	50.50
33 14 19 00-0342 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,618.14	53.98
33 14 19 00-0343 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,768.42	64.43
33 14 19 00-0344 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit .....	1,849.12	77.49
 <b>33 14 19 00-0345</b> <b>Remove And Reinstall Standard Fire Hydrant</b> <small>(33 14 19 00-0243)</small>		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0346 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant .....	696.53	
33 14 19 00-0347 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,015.78	
33 14 19 00-0348 EA Reset Fire Hydrant Upper Barrel.....	899.66	
Note: Includes Safety Repair Kit		
 <b>33 14 19 00-0349</b> <b>Yard Hydrants</b> <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0350 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet .....	328.61	30.08
33 14 19 00-0351 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet .....	353.68	30.08
33 14 19 00-0352 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet .....	378.75	30.08
33 14 19 00-0353 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	256.76	38.11
33 14 19 00-0354 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	267.96	38.11
33 14 19 00-0355 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	279.17	38.11
 <b>33 14 19 00-0356</b> <b>Sanitary Yard Hydrants</b> <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0357 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	1,511.13	62.68
33 14 19 00-0358 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	1,589.48	62.68
33 14 19 00-0359 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet .....	1,667.82	62.68
 <b>33 14 19 00-0360</b> <b>Flushing Hydrants</b> <small>(33 14 19)</small>		
33 14 19 00-0361 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth.....	536.67	38.44
 <b>33 14 23</b> <b>Enclosures for Water Utility Piping and Valves</b> <small>(33 14)</small>		
See CSI section 22 11 19 00-0449 for Enclosures.		



**33 Utilities****33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**33 19 Water Utility Metering Equipment (33 10)****33 19 13 Positive Displacement Water Meters (33 19)****33 19 13 23 Nutating Disc Water Meters (33 19 13)****33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)**

33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter .....	285.91	52.16
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter .....	359.76	62.18
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter .....	484.48	71.21
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter .....	946.11	106.31
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter .....	1,282.50	138.41

**33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)**

33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	350.16	52.16
		<i>For Owner Furnished Material, Deduct</i>	-297.37	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	400.00	62.18
		<i>For Owner Furnished Material, Deduct</i>	-337.32	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) .....	589.22	71.21
		<i>For Owner Furnished Material, Deduct</i>	-517.58	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) .....	992.90	106.31
		<i>For Owner Furnished Material, Deduct</i>	-886.21	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) .....	1,231.35	138.41
		<i>For Owner Furnished Material, Deduct</i>	-1,092.06	
33 19 13 23-0013	EA	Electronic Transmitter .....	278.50	25.08
		Note: For use with transmitting meter valve.		
		<i>For Owner Furnished Material, Deduct</i>	-253.42	

**33 19 16 Velocity-Type Water Meters (33 19)****33 19 16 23 Turbine Water Meters (33 19 16)****33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)****33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)**

33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	567.31	96.97
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	789.36	123.11
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,320.73	157.00
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	2,034.10	297.38
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	3,740.92	332.47

**33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)**

33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	864.50	96.97
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,213.64	123.11
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,490.83	157.00
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	2,258.95	297.38
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	4,560.15	332.47
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	6,102.01	424.83
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	8,533.74	517.18
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	10,941.51	1,043.59

**33 19 19 Compound Water Meters (33 19)****33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)**

33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	2,232.30	123.11
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	2,607.25	157.00
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	4,378.38	297.38
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	6,034.37	332.47
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	12,454.45	424.83
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	21,371.58	517.18

**33 19 23 Magnetic Water Meters (33 19)****33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)**

33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG) .....	5,067.33	123.11
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG) .....	7,001.91	157.00
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG) .....	8,072.28	297.38

**33 30 Sanitary Sewerage Utilities (33)****33 31 Sanitary Sewerage Piping (33 30)****33 31 11 Public Sanitary Sewerage Gravity Piping (33 31)**

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 31 11 00-0001</b> Cast Iron Service Saddles With U Bolt <small>(33 31 11)</small>		
33 31 11 00-0002 EA 2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	97.43	
33 31 11 00-0003 EA 3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	97.90	
33 31 11 00-0004 EA 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	107.83	
33 31 11 00-0005 EA 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	104.19	
33 31 11 00-0006 EA 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt.....	117.38	
33 31 11 00-0007 EA 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt.....	131.76	
33 31 11 00-0008 EA 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt.....	155.96	
33 31 11 00-0009 EA 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt.....	131.61	
33 31 11 00-0010 EA 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt.....	143.84	
33 31 11 00-0011 EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt.....	166.07	
33 31 11 00-0012 EA 2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	138.45	
33 31 11 00-0013 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	106.87	
33 31 11 00-0014 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	116.81	
33 31 11 00-0015 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	138.01	
33 31 11 00-0016 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	163.64	
33 31 11 00-0017 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	175.64	
<b>33 31 11 00-0018</b> Plastic Sewer And Drain Piping <small>(33 31 11)</small>		
<b>33 31 11 00-0019</b> Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe <small>(33 31 11 00-0018)</small>		
33 31 11 00-0020 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	7.23	3.32
33 31 11 00-0021 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	8.64	3.91
33 31 11 00-0022 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	11.16	4.74
33 31 11 00-0023 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	13.48	5.52
33 31 11 00-0024 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	17.07	6.43
33 31 11 00-0025 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	21.53	7.47
33 31 11 00-0026 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	26.45	7.74
33 31 11 00-0027 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	32.18	8.01
<b>33 31 11 00-0028</b> Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe <small>(33 31 11 00-0018)</small>		
Note: D-2729 PVC pipe.		
33 31 11 00-0029 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	10.49	4.74
33 31 11 00-0030 LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	12.32	5.52
33 31 11 00-0031 LF 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	15.33	6.43
<b>33 31 11 00-0032</b> Polyvinyl Chloride (PVC) Sewer And Drain Fittings <small>(33 31 11 00-0018)</small>		
<b>33 31 11 00-0033</b> 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0034 EA 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	19.70	11.75
33 31 11 00-0035 EA 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.38	15.19
33 31 11 00-0036 EA 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	38.81	20.40
33 31 11 00-0037 EA 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	52.64	23.59
33 31 11 00-0038 EA 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	151.34	30.65
33 31 11 00-0039 EA 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	242.26	41.25
33 31 11 00-0040 EA 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	320.32	54.95
<b>33 31 11 00-0041</b> 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0042 EA 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	20.18	11.75
33 31 11 00-0043 EA 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.34	15.19
33 31 11 00-0044 EA 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	38.09	20.40
33 31 11 00-0045 EA 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	49.14	23.59
33 31 11 00-0046 EA 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	142.42	30.65
33 31 11 00-0047 EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	221.54	41.25
33 31 11 00-0048 EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	259.38	54.95
33 31 11 00-0049 EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	377.74	73.18
<b>33 31 11 00-0050</b> Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0051 EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.29	11.57
33 31 11 00-0052 EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	28.72	15.19
33 31 11 00-0053 EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	48.09	20.85
33 31 11 00-0054 EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.18	25.44
33 31 11 00-0055 EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	118.95	29.42
33 31 11 00-0056 EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	190.78	33.57
33 31 11 00-0057 EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	295.91	39.13
33 31 11 00-0058 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	433.82	45.62
<b>33 31 11 00-0059</b> 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0060 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	21.20	11.75
33 31 11 00-0061 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	26.37	15.19
33 31 11 00-0062 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.07	20.40
33 31 11 00-0063 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.66	23.59
33 31 11 00-0064 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	180.99	30.65
33 31 11 00-0065 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	285.42	41.25

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0066 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	330.15	54.95
33 31 11 00-0067 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	354.15	73.18
<b>33 31 11 00-0068 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0069 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	24.28	13.41
33 31 11 00-0070 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	37.24	16.01
33 31 11 00-0071 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	37.56	17.65
33 31 11 00-0072 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	50.86	19.29
33 31 11 00-0073 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	55.75	21.89
33 31 11 00-0074 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	133.51	27.09
33 31 11 00-0075 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	263.51	35.92
33 31 11 00-0076 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	95.26	39.22
33 31 11 00-0077 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	120.96	42.78
33 31 11 00-0078 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	120.82	48.05
33 31 11 00-0079 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	287.61	51.94
33 31 11 00-0080 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	305.97	57.20
33 31 11 00-0081 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain .....	327.29	64.06
<b>33 31 11 00-0082 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0083 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	30.31	17.76
33 31 11 00-0084 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	39.68	22.97
33 31 11 00-0085 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	59.58	30.30
33 31 11 00-0086 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	83.26	37.64
33 31 11 00-0087 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	218.07	41.25
33 31 11 00-0088 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain .....	284.42	54.95
<b>33 31 11 00-0089 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0090 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	34.01	17.76
33 31 11 00-0091 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	41.83	22.97
33 31 11 00-0092 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	62.32	30.30
33 31 11 00-0093 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	87.76	37.64
33 31 11 00-0094 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	201.20	41.25
33 31 11 00-0095 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	252.37	54.95
33 31 11 00-0096 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	332.89	73.32
33 31 11 00-0097 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	508.78	97.84
<b>33 31 11 00-0098 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0099 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	39.82	17.76
33 31 11 00-0100 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	47.48	22.97
33 31 11 00-0101 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	58.50	30.30
33 31 11 00-0102 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	81.59	37.64
33 31 11 00-0103 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	85.81	37.64
<b>33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0105 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	50.15	22.97
33 31 11 00-0106 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	65.74	30.30
33 31 11 00-0107 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	113.64	40.90
33 31 11 00-0108 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	180.30	49.47
33 31 11 00-0109 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	63.99	30.30
33 31 11 00-0110 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	100.27	40.90
33 31 11 00-0111 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	158.22	49.47
<b>33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	38.63	17.76
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	49.03	22.97
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	83.97	30.30
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	136.30	37.64
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	64.71	22.97
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	98.17	30.30
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	78.41	30.30
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	129.64	37.64
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	135.73	37.64
<b>33 31 11 00-0122 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)</b>		
33 31 11 00-0123 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	53.73	22.97
33 31 11 00-0124 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	66.14	30.30
33 31 11 00-0125 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	97.20	40.90
33 31 11 00-0126 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	263.31	49.47
33 31 11 00-0127 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	768.64	54.77



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 31 11 00-0128</b>				<b>Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0032)		
				33 31 11 00-0129 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	258.31	94.17
				33 31 11 00-0130 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	522.30	121.48
				33 31 11 00-0131 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	680.28	171.19
				33 31 11 00-0132 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	974.67	275.39
<b>33 31 11 00-0133</b>				<b>Couplings, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0032)		
				33 31 11 00-0134 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	19.47	11.75
				33 31 11 00-0135 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	24.65	15.11
				33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	35.58	20.23
				33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	43.85	23.59
				33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	93.05	30.65
				33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	197.73	41.25
				33 31 11 00-0140 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	293.03	54.95
				33 31 11 00-0141 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	468.62	73.18
<b>33 31 11 00-0142</b>				<b>Adapters, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0032)		
				33 31 11 00-0143 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting .....	103.35	64.83
				33 31 11 00-0144 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting .....	75.97	49.32
				33 31 11 00-0145 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting .....	76.87	49.32
				33 31 11 00-0146 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting .....	79.25	49.32
				33 31 11 00-0147 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	104.01	64.83
				33 31 11 00-0148 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	102.10	64.83
				33 31 11 00-0149 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	98.98	64.83
				33 31 11 00-0150 EA 4" Drain Grate, Drain And Sewer Fitting .....	52.27	33.34
<b>33 31 11 00-0151</b>				<b>Caps, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0032)		
				33 31 11 00-0152 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	24.44	12.63
				33 31 11 00-0153 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	35.93	15.73
				33 31 11 00-0154 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	60.04	20.31
<b>33 31 11 00-0155</b>				<b>Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0032)		
				33 31 11 00-0156 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	18.72	11.75
				33 31 11 00-0157 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	24.25	15.19
				33 31 11 00-0158 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	34.18	20.40
				33 31 11 00-0159 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	42.13	23.59
				33 31 11 00-0160 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	63.96	30.65
				33 31 11 00-0161 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain .....	177.40	41.25
<b>33 31 11 00-0162</b>				<b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe</b> (33 31 11 00-0018) Note: ASTM 3034.		
				33 31 11 00-0163 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	14.62	5.52
				33 31 11 00-0164 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	19.65	6.43
				33 31 11 00-0165 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	26.51	7.47
				33 31 11 00-0166 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	32.81	7.74
				33 31 11 00-0167 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	40.44	8.01
				33 31 11 00-0168 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	53.21	8.30
				33 31 11 00-0169 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	67.83	8.59
				33 31 11 00-0170 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	88.48	9.34
				33 31 11 00-0171 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	107.58	10.07
				33 31 11 00-0172 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe .....	133.92	11.81
<b>33 31 11 00-0173</b>				<b>Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe</b> (33 31 11 00-0018) Note: ASTM 3034.		
				33 31 11 00-0174 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe .....	13.12	5.52
				33 31 11 00-0175 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe .....	16.97	6.43
				33 31 11 00-0176 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe .....	22.15	7.47
<b>33 31 11 00-0177</b>				<b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings</b> (33 31 11 00-0018) Note: ASTM 3034.		
<b>33 31 11 00-0178</b>				<b>1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0177)		
				33 31 11 00-0179 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	62.19	21.55
				33 31 11 00-0180 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	90.10	25.06
				33 31 11 00-0181 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	181.25	28.41
				33 31 11 00-0182 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	505.17	33.42
				33 31 11 00-0183 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	652.62	42.61
<b>33 31 11 00-0184</b>				<b>1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0177)		
				33 31 11 00-0185 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	56.79	21.55
				33 31 11 00-0186 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	84.14	25.06

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0187	EA		8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	166.20	28.41
33 31 11 00-0188	EA		10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	363.44	33.42
33 31 11 00-0189	EA		12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	517.86	42.61
33 31 11 00-0190	EA		15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,100.83	60.16
33 31 11 00-0191	EA		18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,743.51	85.22
33 31 11 00-0192	EA		21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,900.22	112.80
33 31 11 00-0193	EA		24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,953.48	150.39
<b>33 31 11 00-0194</b>			<b>Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0195	EA		4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	94.06	32.34
33 31 11 00-0196	EA		6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	146.67	35.84
33 31 11 00-0197	EA		6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	164.05	37.60
33 31 11 00-0198	EA		8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	180.47	39.35
33 31 11 00-0199	EA		8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	205.51	41.10
33 31 11 00-0200	EA		8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	383.15	42.87
33 31 11 00-0201	EA		10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	487.53	43.86
33 31 11 00-0202	EA		10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	551.45	45.95
33 31 11 00-0203	EA		10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	808.42	47.70
33 31 11 00-0204	EA		10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,050.20	50.13
33 31 11 00-0205	EA		12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	599.71	53.39
33 31 11 00-0206	EA		12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	636.20	55.14
33 31 11 00-0207	EA		12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	901.46	56.90
33 31 11 00-0208	EA		12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,293.64	59.32
33 31 11 00-0209	EA		12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,457.01	63.92
<b>33 31 11 00-0210</b>			<b>Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0211	EA		4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	89.87	32.34
33 31 11 00-0212	EA		6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	132.71	35.84
33 31 11 00-0213	EA		6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	145.30	37.60
33 31 11 00-0214	EA		8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	174.48	39.35
33 31 11 00-0215	EA		8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	198.37	41.10
33 31 11 00-0216	EA		8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	297.83	42.87
33 31 11 00-0217	EA		10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	447.11	44.20
33 31 11 00-0218	EA		10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	456.34	45.95
33 31 11 00-0219	EA		10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	680.36	47.70
33 31 11 00-0220	EA		10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	752.10	50.13
33 31 11 00-0221	EA		12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	565.91	53.39
33 31 11 00-0222	EA		12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	583.70	55.14
33 31 11 00-0223	EA		12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	829.49	56.90
33 31 11 00-0224	EA		12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	996.82	59.32
33 31 11 00-0225	EA		12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,041.38	63.92
33 31 11 00-0226	EA		15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,282.84	76.87
33 31 11 00-0227	EA		15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,422.13	81.46
33 31 11 00-0228	EA		15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,774.67	90.24
<b>33 31 11 00-0229</b>			<b>Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0230	EA		4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	61.71	21.55
33 31 11 00-0231	EA		6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	93.28	25.06
33 31 11 00-0232	EA		8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	135.09	28.58
33 31 11 00-0233	EA		10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	249.84	33.42
33 31 11 00-0234	EA		12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	353.09	42.61
33 31 11 00-0235	EA		15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	683.84	60.16
33 31 11 00-0236	EA		18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,278.06	85.22
33 31 11 00-0237	EA		21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,124.03	112.80
33 31 11 00-0238	EA		24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,071.05	150.39
<b>33 31 11 00-0239</b>			<b>Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0240	EA		6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	112.88	23.31
33 31 11 00-0241	EA		8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	159.30	25.06
33 31 11 00-0242	EA		8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	168.10	26.82
33 31 11 00-0243	EA		10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	369.55	29.24
33 31 11 00-0244	EA		10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	423.96	31.00
33 31 11 00-0245	EA		12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	473.49	33.84
33 31 11 00-0246	EA		12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	542.49	35.59
33 31 11 00-0247	EA		12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	621.19	38.02
33 31 11 00-0248	EA		15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	933.55	51.38
<b>33 31 11 00-0249</b>			<b>Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0250	EA		6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	95.09	
33 31 11 00-0251	EA		8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	124.72	
33 31 11 00-0252	EA		8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	127.30	
33 31 11 00-0253	EA		10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	206.40	
33 31 11 00-0254	EA		10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	217.23	
33 31 11 00-0255	EA		10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	403.46	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0256	EA		12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	235.87	
33 31 11 00-0257	EA		12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	256.16	
33 31 11 00-0258	EA		12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	556.83	
33 31 11 00-0259	EA		12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	654.54	
33 31 11 00-0260	EA		15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	273.97	
33 31 11 00-0261	EA		15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	291.68	
<b>33 31 11 00-0262</b>			<b>Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0177)</small>		
33 31 11 00-0263	EA		6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	101.15	
33 31 11 00-0264	EA		8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	124.72	
33 31 11 00-0265	EA		8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	135.55	
33 31 11 00-0266	EA		10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	190.34	
33 31 11 00-0267	EA		10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	215.93	
33 31 11 00-0268	EA		10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	322.63	
33 31 11 00-0269	EA		12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	234.58	
33 31 11 00-0270	EA		12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	254.94	
33 31 11 00-0271	EA		12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	375.84	
33 31 11 00-0272	EA		12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	454.75	
33 31 11 00-0273	EA		15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	273.18	
33 31 11 00-0274	EA		15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	285.68	
33 31 11 00-0275	EA		15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	464.46	
33 31 11 00-0276	EA		15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	512.07	
33 31 11 00-0277	EA		15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	716.74	
<b>33 31 11 00-0278</b>			<b>Couplings And Plug Fittings</b> <small>(33 31 11)</small>		
<b>33 31 11 00-0279</b>			<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)</b> <b>Flexible Pipe Couplings</b> <small>(33 31 11 00-0279)</small> Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0280	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	19.09	6.07
33 31 11 00-0281	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	20.76	7.08
33 31 11 00-0282	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	24.43	8.09
33 31 11 00-0283	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	28.02	8.60
33 31 11 00-0284	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	35.50	9.10
33 31 11 00-0285	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	43.06	10.11
33 31 11 00-0286	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	56.79	11.13
33 31 11 00-0287	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	71.93	11.63
33 31 11 00-0288	EA		12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	125.63	12.14
33 31 11 00-0289	EA		15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	174.79	13.15
33 31 11 00-0290	EA		18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	348.51	13.65
33 31 11 00-0291	EA		21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	406.43	14.42
33 31 11 00-0292	EA		24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	451.10	15.17
33 31 11 00-0293	EA		27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	541.92	16.18
<b>33 32</b>			<b>Sanitary Sewerage Equipment</b> <small>(33 30)</small>		
<b>33 32 16</b>			<b>Packaged Wastewater Grinder Pump Assemblies</b> <small>(33 32)</small>		
<b>33 32 16 00-0001</b>			<b>Submersible Grinder Pumps, Cast Iron With Bronze Impeller</b> <small>(33 32 16)</small>		
33 32 16 00-0002	EA		2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge..... Note: Zoeller 840 series.	2,087.19	301.07
33 32 16 00-0003	EA		2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge..... Note: Zoeller 840 series.	2,056.49	301.07
33 32 16 00-0004	EA		Simplex Control Panel With Auto Reversing Switch..... Note: For Zoeller 840 series grinder pump.	997.77	100.32
33 32 16 00-0005	EA		Duplex Control Panel With Auto Reversing Switch..... Note: For Zoeller 840 series grinder pump.	1,568.26	100.32
33 32 16 00-0006	EA		Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	8,211.55	
<b>33 32 16 00-0007</b>			<b>Submersible Grinder Pumps</b> <small>(33 32 16)</small> Note: Includes 50' of cord with pumps unless otherwise noted.		
33 32 16 00-0008	EA		2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	3,602.58	596.15
33 32 16 00-0009	EA		3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	5,453.11	695.51
33 32 16 00-0010	EA		5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	6,662.87	894.22
<b>33 34</b>			<b>Onsite Wastewater Disposal</b> <small>(33 30)</small> Note: Excludes distribution field piping, trenching or excavation.		
<b>33 34 13</b>			<b>Septic Tanks</b> <small>(33 34)</small>		
<b>33 34 13 13</b>			<b>Concrete Septic Tanks</b> <small>(33 34 13)</small>		
<b>33 34 13 13-0001</b>			<b>Precast Concrete Septic Tank</b> <small>(33 34 13 13)</small> Note: Includes external coating.		
33 34 13 13-0002	EA		1,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	2,617.51 -471.35	596.15



**33 Utilities****33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	3,126.91 -579.75	658.05
33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	3,617.46 -683.42	719.85
33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	4,597.21 -909.83	782.45
33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	5,524.98 -1,050.74	1,080.52
33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	14,251.11 -3,105.73	1,490.38
33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	25,760.00 -5,756.38	2,235.56
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	29,077.33 -6,317.15	3,129.79
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	35,628.49 -7,764.50	3,744.62
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	42,184.10 -9,117.75	4,638.84
<b>33 34 13 23 Fiberglass Septic Tank (33 34 13)</b>		
<b>33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)</b>		
33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank .....	1,575.11	447.12
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank .....	1,916.46	596.15
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank .....	2,075.41	540.31
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank .....	3,184.40	584.92
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank .....	4,066.02	810.77
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank .....	6,299.36	1,117.78
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank .....	9,368.62	1,676.67
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank .....	12,878.88	2,347.34
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank .....	15,756.41	2,805.58
<b>33 34 13 33 Polyethylene Septic Tank (33 34 13)</b>		
<b>33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)</b>		
33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....	863.47	184.70
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,288.56	207.80
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,772.95	253.97
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,829.33	277.06
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,108.69	300.15
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,510.46	323.23
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,771.95	230.88
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,945.92	277.06
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,274.83	300.15
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,656.20	323.23
<b>33 34 51 Drainage Field System (33 34)</b>		
<b>33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)</b>		
Note: Includes external coating.		
33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit.....	853.51	87.44
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit.....	1,208.98	124.20
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit.....	1,610.29	149.04
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit.....	2,616.68	248.40
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit.....	3,831.19	347.76
<b>33 34 53 Distribution Chambers (33 34)</b>		
<b>33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)</b>		
<b>33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)</b>		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box .....	237.50	59.72
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box .....	277.42	71.67
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box .....	465.99	83.61
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	910.43	143.34
<b>33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)</b>		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,015.54	75.35
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,234.74	102.75
<b>33 34 56 Drainage Field Dosing Chambers (33 34)</b>		
<b>33 34 56 00-0001 Dosing Siphon (33 34 56)</b>		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	3,476.36	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon .....	2,378.30	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon .....	2,286.22	



	<b>Utilities</b>	<b>33</b>
	<b>Sanitary Sewerage Utilities</b>	<b>33 30</b>
	<b>Onsite Wastewater Disposal</b>	<b>33 34</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 40 Stormwater Utilities** (33)

**33 41 Subdrainage** (33 40)

**33 41 16 Subdrainage Piping** (33 41)

**33 41 16 13 Subdrainage Piping** (33 41 16)

See CSI section 33 42 11 00-0239 for polyethylene drain pipe.

**33 41 16 13-0001 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729** (33 41 16 13)

Note: Includes fittings, couplings, elbows, etc.

33 41 16 13-0002	LF	3" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	5.61	3.54
33 41 16 13-0003	LF	4" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	6.12	3.82
33 41 16 13-0004	LF	6" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	8.54	4.59
33 41 16 13-0005	LF	8" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	13.12	5.74
33 41 16 13-0006	LF	10" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	21.32	6.56
33 41 16 13-0007	LF	12" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	27.41	7.65
33 41 16 13-0008	LF	15" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	45.80	9.18

**33 41 16 13-0009 Perforated Non Reinforced Concrete Drainage Piping, C444** (33 41 16 13)

33 41 16 13-0010	LF	6" Perforated Non Reinforced Concrete Drainage Pipe .....	25.92	10.22
		<i>For Extra Strength, Add</i>	1.33	
		<i>For &gt;1,000, Deduct</i>	-1.30	
33 41 16 13-0011	LF	8" Perforated Non Reinforced Concrete Drainage Pipe .....	30.17	11.36
		<i>For Extra Strength, Add</i>	1.64	
		<i>For &gt;1,000, Deduct</i>	-1.51	
33 41 16 13-0012	LF	10" Perforated Non Reinforced Concrete Drainage Pipe .....	34.07	12.50
		<i>For Extra Strength, Add</i>	1.91	
		<i>For &gt;1,000, Deduct</i>	-1.70	
33 41 16 13-0013	LF	12" Perforated Non Reinforced Concrete Drainage Pipe .....	39.81	13.64
		<i>For Extra Strength, Add</i>	2.39	
		<i>For &gt;1,000, Deduct</i>	-1.99	

**33 41 16 13-0014 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654** (33 41 16 13)

Note: Bell and spigot or tongue and groove. With seals and gaskets.

33 41 16 13-0015	LF	6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	21.80	10.22
		<i>For &gt;1,000, Deduct</i>	-1.09	
33 41 16 13-0016	LF	8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	24.13	11.36
		<i>For &gt;1,000, Deduct</i>	-1.21	
33 41 16 13-0017	LF	10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	26.61	12.50
		<i>For &gt;1,000, Deduct</i>	-1.33	
33 41 16 13-0018	LF	12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	30.27	12.98
		<i>For &gt;1,000, Deduct</i>	-1.51	
33 41 16 13-0019	LF	15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	35.04	14.61
		<i>For &gt;1,000, Deduct</i>	-1.75	
33 41 16 13-0020	LF	18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	43.39	18.66
		<i>For &gt;1,000, Deduct</i>	-2.17	
33 41 16 13-0021	LF	21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	54.24	23.94
		<i>For &gt;1,000, Deduct</i>	-2.71	
33 41 16 13-0022	LF	24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe .....	66.11	29.21
		<i>For &gt;1,000, Deduct</i>	-3.31	

**33 41 16 13-0023 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654** (33 41 16 13)

33 41 16 13-0024	LF	6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	20.44	10.22
		<i>For &gt;1,000, Deduct</i>	-1.02	
33 41 16 13-0025	LF	8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	25.64	11.36
		<i>For &gt;1,000, Deduct</i>	-1.28	
33 41 16 13-0026	LF	10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	32.06	12.50
		<i>For &gt;1,000, Deduct</i>	-1.60	
33 41 16 13-0027	LF	12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	38.61	13.64
		<i>For &gt;1,000, Deduct</i>	-1.93	
33 41 16 13-0028	LF	15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	44.13	15.17
		<i>For &gt;1,000, Deduct</i>	-2.21	
33 41 16 13-0029	LF	18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe .....	57.04	18.92
		<i>For &gt;1,000, Deduct</i>	-2.85	

**33 41 16 13-0030 Perforated Vitrified Clay Drainage Piping, C700** (33 41 16 13)

33 41 16 13-0031	LF	4" Perforated Vitrified Clay Drainage Pipe .....	22.66	11.36
33 41 16 13-0032	LF	6" Perforated Vitrified Clay Drainage Pipe .....	27.38	12.78
33 41 16 13-0033	LF	8" Perforated Vitrified Clay Drainage Pipe .....	31.95	12.78
33 41 16 13-0034	LF	10" Perforated Vitrified Clay Drainage Pipe .....	43.42	15.63
33 41 16 13-0035	LF	12" Perforated Vitrified Clay Drainage Pipe .....	52.19	17.04

**33 41 16 13-0036 Geotextile Filter Fabric Sock** (33 41 16 13)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 41 16 13-0037	LF	3" Geotextile Filter Fabric Sock.....	0.59	
	33 41 16 13-0038	LF	4" Geotextile Filter Fabric Sock.....	0.78	
	33 41 16 13-0039	LF	6" Geotextile Filter Fabric Sock.....	1.18	
	33 41 16 13-0040	LF	8" Geotextile Filter Fabric Sock.....	1.59	
	33 41 16 13-0041	LF	10" Geotextile Filter Fabric Sock.....	2.31	
	33 41 16 13-0042	LF	12" Geotextile Filter Fabric Sock.....	3.11	
	33 41 16 13-0043	LF	15" Geotextile Filter Fabric Sock.....	3.66	
<b>33 41 16 13-0044</b>	<b>Strip-Perforated, Galvanized, Corrugated Steel Pipe</b> <small>(33 41 16 13)</small>				
	Note: Perforations are located in the bottom quarter points of the pipe.				
	33 41 16 13-0045	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	17.13	4.87
			<i>For Full Perforated, Add</i>	0.74	
	33 41 16 13-0046	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	21.55	5.90
			<i>For Full Perforated, Add</i>	0.98	
	33 41 16 13-0047	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	27.21	7.49
			<i>For Full Perforated, Add</i>	1.22	
	33 41 16 13-0048	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	30.49	8.85
			<i>For Full Perforated, Add</i>	1.28	
	33 41 16 13-0049	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	34.40	9.17
			<i>For Full Perforated, Add</i>	1.61	
	33 41 16 13-0050	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	38.40	9.51
			<i>For Full Perforated, Add</i>	1.94	
	33 41 16 13-0051	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....	43.59	10.25
			<i>For Full Perforated, Add</i>	2.31	
<b>33 41 16 13-0052</b>	<b>Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe</b> <small>(33 41 16 13)</small>				
	Note: Perforations are located in the bottom quarter points of the pipe.				
	33 41 16 13-0053	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	18.32	4.87
			<i>For Full Perforated, Add</i>	0.86	
	33 41 16 13-0054	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	23.16	5.90
			<i>For Full Perforated, Add</i>	1.14	
	33 41 16 13-0055	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	29.18	7.49
			<i>For Full Perforated, Add</i>	1.42	
	33 41 16 13-0056	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	32.40	8.85
			<i>For Full Perforated, Add</i>	1.47	
	33 41 16 13-0057	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	36.77	9.17
			<i>For Full Perforated, Add</i>	1.84	
	33 41 16 13-0058	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	41.20	9.51
			<i>For Full Perforated, Add</i>	2.22	
	33 41 16 13-0059	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	46.86	10.25
			<i>For Full Perforated, Add</i>	2.64	
<b>33 41 16 13-0060</b>	<b>Strip-Perforated, Corrugated Aluminum Pipe</b> <small>(33 41 16 13)</small>				
	Note: Perforations are located in the bottom quarter points of the pipe.				
	33 41 16 13-0061	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	18.71	4.87
			<i>For Full Perforated, Add</i>	0.90	
	33 41 16 13-0062	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	23.65	5.90
			<i>For Full Perforated, Add</i>	1.19	
	33 41 16 13-0063	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	29.81	7.49
			<i>For Full Perforated, Add</i>	1.48	
	33 41 16 13-0064	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	37.12	8.85
			<i>For Full Perforated, Add</i>	1.94	
	33 41 16 13-0065	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	42.64	9.17
			<i>For Full Perforated, Add</i>	2.43	
	33 41 16 13-0066	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	48.33	9.51
			<i>For Full Perforated, Add</i>	2.93	
	33 41 16 13-0067	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	55.16	10.25
			<i>For Full Perforated, Add</i>	3.47	
<b>33 41 16 13-0068</b>	<b>Prefabricated Composite Drains</b> <small>(33 41 16 13)</small>				
<b>33 41 16 13-0069</b>	<b>Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)</b> <small>(33 41 16 13-0068)</small>				
	Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.				
	33 41 16 13-0070	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	7.52	1.84
			<i>For External Typar Geotextile Wrap, Add</i>	1.21	
	33 41 16 13-0071	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	33.01	
	33 41 16 13-0072	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	33.01	
	33 41 16 13-0073	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	61.02	
	33 41 16 13-0074	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	61.02	
	33 41 16 13-0075	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	11.70	2.29
			<i>For External Typar Geotextile Wrap, Add</i>	1.81	
	33 41 16 13-0076	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	47.39	
	33 41 16 13-0077	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	47.39	
	33 41 16 13-0078	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	68.15	
	33 41 16 13-0079	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	68.15	

**33 41 19 Underslab Drainage** (33 41)



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 41 19 13 Underslab Drainage Piping</b> (33 41 19)		
<b>33 41 19 13-0001 Capillary Water Barrier Underslab Drainage</b> (33 41 19 13)		
Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 13-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	64.00	
33 41 19 13-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	61.83	
33 41 19 13-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	60.97	
33 41 19 13-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	59.67	
<b>33 42 Stormwater Conveyance</b> (33 42)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 42 11 Stormwater Gravity Piping</b> (33 42)		
<b>33 42 11 00-0001 Reinforced Concrete Piping</b> (33 42 11)		
<b>33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets</b> (33 42 11 00-0001)		
33 42 11 00-0003 LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	38.47	13.64
For Class 4, Add	1.80	
For Class 5, Add	3.80	
For >1,000, Deduct	-1.92	
33 42 11 00-0004 LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	45.99	15.17
For Class 4, Add	2.31	
For Class 5, Add	4.66	
For >1,000, Deduct	-2.30	
33 42 11 00-0005 LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	52.61	18.92
For Class 4, Add	2.43	
For Class 5, Add	5.12	
For >1,000, Deduct	-2.63	
33 42 11 00-0006 LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	67.33	23.86
For Class 4, Add	3.16	
For Class 5, Add	6.65	
For >1,000, Deduct	-3.37	
33 42 11 00-0007 LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	79.01	28.97
For Class 4, Add	3.57	
For Class 5, Add	7.52	
For >1,000, Deduct	-3.95	
33 42 11 00-0008 LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	99.59	36.48
For Class 4, Add	4.51	
For Class 5, Add	9.49	
For >1,000, Deduct	-4.98	
33 42 11 00-0009 LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	105.80	37.67
For Class 4, Add	4.88	
For Class 5, Add	10.27	
For >1,000, Deduct	-5.29	
33 42 11 00-0010 LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	130.16	42.81
For Class 4, Add	6.61	
For Class 5, Add	13.93	
For >1,000, Deduct	-6.51	
33 42 11 00-0011 LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	167.37	47.09
For Class 4, Add	9.57	
For Class 5, Add	20.15	
For >1,000, Deduct	-8.37	
33 42 11 00-0012 LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	199.89	52.45
For Class 4, Add	11.87	
For Class 5, Add	24.99	
For >1,000, Deduct	-9.99	
33 42 11 00-0013 LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	247.89	59.93
For Class 4, Add	15.42	
For Class 5, Add	32.45	
For >1,000, Deduct	-12.39	
33 42 11 00-0014 LF 60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	298.88	69.52
For Class 4, Add	18.96	
For Class 5, Add	39.91	
For >1,000, Deduct	-14.94	
33 42 11 00-0015 LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	455.80	77.06
For Class 4, Add	32.89	
For Class 5, Add	69.24	
For >1,000, Deduct	-22.79	
33 42 11 00-0016 LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	530.88	83.91
For Class 4, Add	39.05	
For Class 5, Add	82.20	
For >1,000, Deduct	-26.54	
33 42 11 00-0017 LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	637.36	94.18
For Class 4, Add	47.74	
For Class 5, Add	100.50	
For >1,000, Deduct	-31.87	
33 42 11 00-0018 LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....	818.33	104.88
For Class 4, Add	63.51	
For Class 5, Add	133.70	
For >1,000, Deduct	-40.92	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0019 LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size) .....	91.29	25.16
For Class 4, Add	5.26	
For Class 5, Add	11.07	
For Horizontal Elliptical - II (HE- II), Add	5.53	
For Horizontal Elliptical - III (HE- III), Add	12.17	
For Horizontal Elliptical - IV (HE- IV), Add	26.56	
For >1,000, Deduct	-4.56	
33 42 11 00-0020 LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size) .....	127.45	38.54
For Class 4, Add	6.88	
For Class 5, Add	14.48	
For Horizontal Elliptical - II (HE- II), Add	7.24	
For Horizontal Elliptical - III (HE- III), Add	15.93	
For Horizontal Elliptical - IV (HE- IV), Add	34.75	
For >1,000, Deduct	-6.37	
33 42 11 00-0021 LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size) .....	150.26	48.52
For Class 4, Add	7.69	
For Class 5, Add	16.19	
For Horizontal Elliptical - II (HE- II), Add	8.09	
For Horizontal Elliptical - III (HE- III), Add	17.81	
For Horizontal Elliptical - IV (HE- IV), Add	38.85	
For >1,000, Deduct	-7.51	
33 42 11 00-0022 LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size) .....	159.36	50.70
For Class 4, Add	8.26	
For Class 5, Add	17.39	
For Horizontal Elliptical - II (HE- II), Add	8.69	
For Horizontal Elliptical - III (HE- III), Add	19.12	
For Horizontal Elliptical - IV (HE- IV), Add	41.73	
For >1,000, Deduct	-7.97	
33 42 11 00-0023 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size) .....	182.18	53.53
For Class 4, Add	10.04	
For Class 5, Add	21.14	
For Horizontal Elliptical - II (HE- II), Add	10.57	
For Horizontal Elliptical - III (HE- III), Add	23.26	
For Horizontal Elliptical - IV (HE- IV), Add	50.74	
For >1,000, Deduct	-9.11	
33 42 11 00-0024 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size) .....	204.99	56.36
For Class 4, Add	11.83	
For Class 5, Add	24.90	
For Horizontal Elliptical - II (HE- II), Add	12.45	
For Horizontal Elliptical - III (HE- III), Add	27.39	
For Horizontal Elliptical - IV (HE- IV), Add	59.76	
For >1,000, Deduct	-10.25	
33 42 11 00-0025 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size) .....	248.74	62.02
For Class 4, Add	15.21	
For Class 5, Add	32.03	
For Horizontal Elliptical - II (HE- II), Add	16.02	
For Horizontal Elliptical - III (HE- III), Add	35.23	
For Horizontal Elliptical - IV (HE- IV), Add	76.87	
For >1,000, Deduct	-12.44	
33 42 11 00-0026 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size) .....	298.90	69.74
For Class 4, Add	18.93	
For Class 5, Add	39.85	
For Horizontal Elliptical - II (HE- II), Add	19.93	
For Horizontal Elliptical - III (HE- III), Add	43.84	
For Horizontal Elliptical - IV (HE- IV), Add	95.64	
For >1,000, Deduct	-14.95	
33 42 11 00-0027 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size) .....	340.29	79.72
For Class 4, Add	21.51	
For Class 5, Add	45.28	
For Horizontal Elliptical - II (HE- II), Add	22.64	
For Horizontal Elliptical - III (HE- III), Add	49.81	
For Horizontal Elliptical - IV (HE- IV), Add	108.68	
For >1,000, Deduct	-17.01	
33 42 11 00-0028 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size) .....	420.41	92.47
For Class 4, Add	27.39	
For Class 5, Add	57.66	
For Horizontal Elliptical - II (HE- II), Add	28.83	
For Horizontal Elliptical - III (HE- III), Add	63.43	
For Horizontal Elliptical - IV (HE- IV), Add	138.39	
For >1,000, Deduct	-21.02	
33 42 11 00-0029 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size) .....	479.24	101.89
For Class 4, Add	31.70	
For Class 5, Add	66.74	
For >1,000, Deduct	-23.96	
33 42 11 00-0030 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size) .....	579.22	111.31
For Class 4, Add	39.88	
For Class 5, Add	83.96	
For >1,000, Deduct	-28.96	
33 42 11 00-0031 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size) .....	690.65	125.86
For Class 4, Add	48.57	
For Class 5, Add	102.26	
For >1,000, Deduct	-34.53	
33 42 11 00-0032 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size) .....	748.24	139.56
For Class 4, Add	52.15	
For Class 5, Add	109.79	
For >1,000, Deduct	-37.41	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0033 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	953.04	146.41
For Class 4, Add	70.66	
For Class 5, Add	148.76	
For >1,000, Deduct	-47.65	
33 42 11 00-0034 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,101.86	153.26
For Class 4, Add	83.85	
For Class 5, Add	176.53	
For >1,000, Deduct	-55.09	
<b>33 42 11 00-0035 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)</b>		
33 42 11 00-0036 EA 12" Concrete Reducing Wye Without Gaskets.....	449.95	51.95
33 42 11 00-0037 EA 15" Concrete Reducing Wye Without Gaskets.....	539.78	63.31
33 42 11 00-0038 EA 18" Concrete Reducing Wye Without Gaskets.....	665.60	69.80
33 42 11 00-0039 EA 21" Concrete Reducing Wye Without Gaskets.....	764.94	86.03
33 42 11 00-0040 EA 24" Concrete Reducing Wye Without Gaskets.....	865.55	103.89
<b>33 42 11 00-0041 Concrete Pipe Joint Gaskets (33 42 11 00-0001)</b>		
33 42 11 00-0042 EA 12" Diameter Concrete Pipe Joint Gasket.....	4.21	
33 42 11 00-0043 EA 15" Diameter Concrete Pipe Joint Gasket.....	4.98	
33 42 11 00-0044 EA 18" Diameter Concrete Pipe Joint Gasket.....	5.77	
33 42 11 00-0045 EA 21" Diameter Concrete Pipe Joint Gasket.....	6.98	
33 42 11 00-0046 EA 24" Diameter Concrete Pipe Joint Gasket.....	8.17	
33 42 11 00-0047 EA 27" Diameter Concrete Pipe Joint Gasket.....	9.11	
33 42 11 00-0048 EA 30" Diameter Concrete Pipe Joint Gasket.....	10.01	
33 42 11 00-0049 EA 36" Diameter Concrete Pipe Joint Gasket.....	12.22	
33 42 11 00-0050 EA 42" Diameter Concrete Pipe Joint Gasket.....	14.17	
33 42 11 00-0051 EA 48" Diameter Concrete Pipe Joint Gasket.....	16.35	
33 42 11 00-0052 EA 54" Diameter Concrete Pipe Joint Gasket.....	20.04	
33 42 11 00-0053 EA 60" Diameter Concrete Pipe Joint Gasket.....	29.66	
33 42 11 00-0054 EA 66" Diameter Concrete Pipe Joint Gasket.....	30.83	
33 42 11 00-0055 EA 72" Diameter Concrete Pipe Joint Gasket.....	31.97	
33 42 11 00-0056 EA 78" Diameter Concrete Pipe Joint Gasket.....	36.81	
33 42 11 00-0057 EA 84" Diameter Concrete Pipe Joint Gasket.....	44.13	
<b>33 42 11 00-0058 Couplings (33 42 11 00-0001)</b>		
<b>33 42 11 00-0059 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)</b>		
<b>Flexible Pipe Couplings (33 42 11 00-0058)</b>		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	34.81	
33 42 11 00-0061 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	32.11	
33 42 11 00-0062 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	54.91	
33 42 11 00-0063 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	57.07	
33 42 11 00-0064 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	52.93	
33 42 11 00-0065 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	81.54	
33 42 11 00-0066 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	70.29	
33 42 11 00-0067 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	102.84	
33 42 11 00-0068 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	90.97	
33 42 11 00-0069 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	124.43	
33 42 11 00-0070 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	103.86	
33 42 11 00-0071 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	326.04	
<b>33 42 11 00-0072 Precast Concrete Cut Off Wall (33 42 11 00-0001)</b>		
33 42 11 00-0073 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	230.19	150.69
33 42 11 00-0074 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	283.80	186.65
33 42 11 00-0075 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	351.11	236.31
33 42 11 00-0076 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	414.99	282.55
33 42 11 00-0077 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	477.08	326.99
33 42 11 00-0078 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	585.57	417.83
33 42 11 00-0079 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	760.92	575.37
33 42 11 00-0080 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	947.07	726.07
33 42 11 00-0081 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,166.98	910.84
33 42 11 00-0082 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,304.84	1,026.60
33 42 11 00-0083 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,456.02	1,150.75
33 42 11 00-0084 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,609.03	1,278.32
33 42 11 00-0085 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,672.15	1,327.13
33 42 11 00-0086 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,727.68	1,369.94
33 42 11 00-0087 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,783.21	1,412.75
33 42 11 00-0088 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,840.33	1,455.56
<b>33 42 11 00-0089 Strap Assembly (33 42 11 00-0001)</b>		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0090 EA Up To 24" Diameter Pipe, 12' Strap Assembly.....	175.35	
33 42 11 00-0091 EA >24" Diameter Pipe, 12' Strap Assembly.....	246.46	

**33 Utilities**

**33 40 Stormwater Utilities**

**33 42 Stormwater Conveyance**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0092			Prestressed Concrete Cylinder Piping <sup>(33 42 11)</sup>		
33 42 11 00-0093			150 PSI Prestressed Concrete Cylinder Pipe And Fittings <sup>(33 42 11 00-0092)</sup>		
33 42 11 00-0094			150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <sup>(33 42 11 00-0093)</sup>		
			Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0095	LF		12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	101.29	13.64
			For 100 PSI, Deduct .....	-20.45	
			For >1,000, Deduct .....	-5.06	
33 42 11 00-0096	LF		15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	108.21	15.17
			For 100 PSI, Deduct .....	-21.64	
			For >1,000, Deduct .....	-5.41	
33 42 11 00-0097	LF		18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	118.31	18.92
			For 100 PSI, Deduct .....	-22.82	
			For >1,000, Deduct .....	-5.92	
33 42 11 00-0098	LF		21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	130.10	23.86
			For 100 PSI, Deduct .....	-24.00	
			For >1,000, Deduct .....	-6.51	
33 42 11 00-0099	LF		24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	142.15	28.97
			For 100 PSI, Deduct .....	-25.19	
			For >1,000, Deduct .....	-7.11	
33 42 11 00-0100	LF		30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	167.27	37.67
			For 100 PSI, Deduct .....	-28.20	
			For >1,000, Deduct .....	-8.36	
33 42 11 00-0101	LF		36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	185.39	42.81
			For 100 PSI, Deduct .....	-31.22	
			For >1,000, Deduct .....	-9.27	
33 42 11 00-0102	LF		42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	214.73	47.09
			For 100 PSI, Deduct .....	-37.03	
			For >1,000, Deduct .....	-10.74	
33 42 11 00-0103	LF		48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	246.28	52.45
			For 100 PSI, Deduct .....	-42.84	
			For >1,000, Deduct .....	-12.31	
33 42 11 00-0104	LF		54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	324.03	66.48
			For 100 PSI, Deduct .....	-57.27	
			For >1,000, Deduct .....	-16.20	
33 42 11 00-0105	LF		60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	390.03	77.12
			For 100 PSI, Deduct .....	-69.97	
			For >1,000, Deduct .....	-19.50	
33 42 11 00-0106	LF		66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	438.03	85.47
			For 100 PSI, Deduct .....	-79.12	
			For >1,000, Deduct .....	-21.90	
33 42 11 00-0107	LF		72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	488.16	93.07
			For 100 PSI, Deduct .....	-88.80	
			For >1,000, Deduct .....	-24.41	
33 42 11 00-0108	LF		78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	554.30	104.46
			For 100 PSI, Deduct .....	-101.18	
			For >1,000, Deduct .....	-27.72	
33 42 11 00-0109	LF		84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	620.43	116.33
			For 100 PSI, Deduct .....	-113.56	
			For >1,000, Deduct .....	-31.02	
33 42 11 00-0110	LF		90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	765.18	135.81
			For 100 PSI, Deduct .....	-142.62	
			For >1,000, Deduct .....	-38.26	
33 42 11 00-0111	LF		96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	899.70	155.09
			For 100 PSI, Deduct .....	-169.53	
			For >1,000, Deduct .....	-44.99	
33 42 11 00-0112	LF		102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,047.19	167.93
			For 100 PSI, Deduct .....	-201.83	
			For >1,000, Deduct .....	-52.36	
33 42 11 00-0113	LF		108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,180.45	178.33
			For 100 PSI, Deduct .....	-231.43	
			For >1,000, Deduct .....	-59.02	
33 42 11 00-0114	LF		114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,421.36	188.73
			For 100 PSI, Deduct .....	-287.94	
			For >1,000, Deduct .....	-71.07	
33 42 11 00-0115	LF		120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,650.24	198.25
			For 100 PSI, Deduct .....	-341.76	
			For >1,000, Deduct .....	-82.51	
33 42 11 00-0116	LF		126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,797.31	207.76
			For 100 PSI, Deduct .....	-375.13	
			For >1,000, Deduct .....	-89.87	
33 42 11 00-0117	LF		132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	1,946.55	217.29
			For 100 PSI, Deduct .....	-409.03	
			For >1,000, Deduct .....	-97.33	
33 42 11 00-0118	LF		138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	2,094.69	226.81
			For 100 PSI, Deduct .....	-442.67	
			For >1,000, Deduct .....	-104.73	
33 42 11 00-0119	LF		144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets .....	2,242.84	236.33
			For 100 PSI, Deduct .....	-476.31	
			For >1,000, Deduct .....	-112.14	
33 42 11 00-0120			150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets <sup>(33 42 11 00-0093)</sup>		
33 42 11 00-0121	EA		12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping .....	365.45	127.83



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	507.31	182.61
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	654.89	243.49
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	802.46	304.36
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	976.81	378.21
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,247.74	507.26
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,542.91	599.35
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,797.32	699.53
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,026.68	798.85
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,497.12	997.49
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,234.95	1,329.57
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,609.34	1,472.02
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,983.71	1,614.48
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,767.22	1,851.90
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,545.49	2,089.32
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,552.38	2,374.23
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,554.01	2,659.14
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,045.69	3,376.15
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,486.33	4,051.38
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,261.32	5,401.84
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,972.39	6,752.31
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,457.87	7,282.84
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,946.94	7,813.39
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	32,107.06	8,343.92
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,974.47	8,874.46
<b>33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33</b>		
<small>42 11 00-0093)</small>		
33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	343.49	127.83
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	478.90	182.61
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	621.30	243.49
33 42 11 00-0150 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	763.71	304.36
33 42 11 00-0151 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	932.89	378.21
33 42 11 00-0152 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,187.46	473.18
33 42 11 00-0153 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,474.02	599.35
33 42 11 00-0154 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,717.66	699.53
33 42 11 00-0155 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,941.00	798.85
33 42 11 00-0156 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,371.00	997.49
33 42 11 00-0157 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,118.98	1,329.57
33 42 11 00-0158 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,484.96	1,472.02
33 42 11 00-0159 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,850.94	1,614.48
33 42 11 00-0160 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,457.28	1,851.90
33 42 11 00-0161 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,058.39	2,089.32
33 42 11 00-0162 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,937.67	2,374.23
33 42 11 00-0163 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,811.68	2,659.14
33 42 11 00-0164 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,847.74	3,323.93
33 42 11 00-0165 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,041.67	4,051.38
33 42 11 00-0166 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,465.18	5,401.84
33 42 11 00-0167 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	17,824.76	6,752.31
33 42 11 00-0168 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,837.38	7,282.84
33 42 11 00-0169 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,853.58	8,874.46
33 42 11 00-0170 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,875.85	8,343.92
33 42 11 00-0171 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,158.94	8,874.46
<b>33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)</b>		
<b>33 42 11 00-0173 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11</b>		
<small>00-0172)</small>		
<small>Note: AWWA C301</small>		
33 42 11 00-0174 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	195.58	37.67
<small>For &gt;1,000, Deduct</small>	<small>-9.78</small>	
33 42 11 00-0175 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	237.68	42.81
<small>For &gt;1,000, Deduct</small>	<small>-11.88</small>	
33 42 11 00-0176 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	276.81	47.09
<small>For &gt;1,000, Deduct</small>	<small>-13.84</small>	
<b>33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular</b>		
<b>Joints (33 42 11 00-0172)</b>		
<small>Note: AWWA C301</small>		
33 42 11 00-0178 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	370.97	52.40
<small>For &gt;1,000, Deduct</small>	<small>-18.55</small>	
33 42 11 00-0179 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	443.71	66.48
<small>For &gt;1,000, Deduct</small>	<small>-22.19</small>	
33 42 11 00-0180 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	511.59	77.12
<small>For &gt;1,000, Deduct</small>	<small>-25.58</small>	
33 42 11 00-0181 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	575.68	85.47
<small>For &gt;1,000, Deduct</small>	<small>-28.78</small>	
33 42 11 00-0182 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	695.61	93.07
<small>For &gt;1,000, Deduct</small>	<small>-34.78</small>	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

<b>33 42 11 00-0183</b>	<b>Welded Joints For Prestressed Concrete Cylinder Pipe</b> <small>(33 42 11 00-0172)</small>		
	Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0184	EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,342.77	
33 42 11 00-0185	EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,442.23	
33 42 11 00-0186	EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,491.96	
33 42 11 00-0187	EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,690.89	
33 42 11 00-0188	EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,740.62	
33 42 11 00-0189	EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,840.09	
33 42 11 00-0190	EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,889.82	
33 42 11 00-0191	EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe .....	1,939.55	
33 42 11 00-0192	EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	2,486.61	
33 42 11 00-0193	EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	2,486.61	
33 42 11 00-0194	EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	2,834.73	
33 42 11 00-0195	EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	2,834.73	
33 42 11 00-0196	EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	3,033.66	
33 42 11 00-0197	EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	3,033.66	
33 42 11 00-0198	EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	3,282.32	
33 42 11 00-0199	EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe .....	3,282.32	
<b>33 42 11 00-0200</b>	<b>Quick Test Joints</b> <small>(33 42 11 00-0172)</small>		
33 42 11 00-0201	EA 30" Quick Test Joint .....	373.05	
33 42 11 00-0202	EA 36" Quick Test Joint .....	377.33	
33 42 11 00-0203	EA 42" Quick Test Joint .....	381.61	
33 42 11 00-0204	EA 48" Quick Test Joint .....	390.09	
33 42 11 00-0205	EA 54" Quick Test Joint .....	409.30	
33 42 11 00-0206	EA 60" Quick Test Joint .....	425.78	
33 42 11 00-0207	EA 66" Quick Test Joint .....	449.25	
33 42 11 00-0208	EA 72" Quick Test Joint .....	472.72	
<b>33 42 11 00-0209</b>	<b>Harnessed Joints</b> <small>(33 42 11 00-0172)</small>		
<b>33 42 11 00-0210</b>	<b>Harness Clamp Restrained Joints</b> <small>(33 42 11 00-0209)</small>		
33 42 11 00-0211	EA 30" Harness Clamp Restrained Joint .....	2,857.09	
33 42 11 00-0212	EA 36" Harness Clamp Restrained Joint .....	2,968.62	
33 42 11 00-0213	EA 42" Harness Clamp Restrained Joint .....	3,080.16	
33 42 11 00-0214	EA 48" Harness Clamp Restrained Joint .....	3,191.70	
33 42 11 00-0215	EA 54" Harness Clamp Restrained Joint .....	3,312.57	
33 42 11 00-0216	EA 60" Harness Clamp Restrained Joint .....	3,482.94	
33 42 11 00-0217	EA 66" Harness Clamp Restrained Joint .....	3,599.70	
33 42 11 00-0218	EA 72" Harness Clamp Restrained Joint .....	3,855.88	
<b>33 42 11 00-0219</b>	<b>Snap Ring Restrained Joints</b> <small>(33 42 11 00-0209)</small>		
33 42 11 00-0220	EA 30" Snap Ring Restrained Joint .....	497.51	
33 42 11 00-0221	EA 36" Snap Ring Restrained Joint .....	566.15	
33 42 11 00-0222	EA 42" Snap Ring Restrained Joint .....	752.76	
33 42 11 00-0223	EA 48" Snap Ring Restrained Joint .....	853.57	
33 42 11 00-0224	EA 54" Snap Ring Restrained Joint .....	963.72	
33 42 11 00-0225	EA 60" Snap Ring Restrained Joint .....	1,091.19	
33 42 11 00-0226	EA 66" Snap Ring Restrained Joint .....	1,207.95	
33 42 11 00-0227	EA 72" Snap Ring Restrained Joint .....	1,346.15	
<b>33 42 11 00-0228</b>	<b>Pipe Repairs</b> <small>(33 42 11 00-0172)</small>		
	Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD sleeve, 20' pipe.		
<b>33 42 11 00-0229</b>	<b>Lined Cylinder Pipe Repair</b> <small>(33 42 11 00-0228)</small>		
33 42 11 00-0230	EA 30" Lined Cylinder Pipe Repair .....	5,382.08	
33 42 11 00-0231	EA 36" Lined Cylinder Pipe Repair .....	6,672.47	
33 42 11 00-0232	EA 42" Lined Cylinder Pipe Repair .....	7,570.90	
<b>33 42 11 00-0233</b>	<b>Embedded Cylinder Pipe Repair</b> <small>(33 42 11 00-0228)</small>		
	Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0234	EA 48" Embedded Cylinder Pipe Repair .....	11,182.79	
33 42 11 00-0235	EA 54" Embedded Cylinder Pipe Repair .....	12,973.66	
33 42 11 00-0236	EA 60" Embedded Cylinder Pipe Repair .....	14,778.87	
33 42 11 00-0237	EA 66" Embedded Cylinder Pipe Repair .....	16,695.68	
33 42 11 00-0238	EA 72" Embedded Cylinder Pipe Repair .....	20,035.65	
<b>33 42 11 00-0239</b>	<b>High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11)</small>		
<b>33 42 11 00-0240</b>	<b>Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0239)</small>		
	Note: Excludes couplings and gaskets.		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-0241</b> <b>Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0240)</small>		
33 42 11 00-0242    LF    4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.29	5.52
For <100, Add	2.21	
For >1,000, Deduct	-0.61	
33 42 11 00-0243    LF    6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.97	6.43
For <100, Add	2.57	
For >1,000, Deduct	-0.80	
33 42 11 00-0244    LF    8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.62	7.47
For <100, Add	2.99	
For >1,000, Deduct	-0.98	
33 42 11 00-0245    LF    10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.21	7.74
For <100, Add	3.09	
For >1,000, Deduct	-1.11	
33 42 11 00-0246    LF    12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.35	8.01
For <100, Add	3.21	
For >1,000, Deduct	-1.17	
33 42 11 00-0247    LF    15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.41	8.30
For <100, Add	3.32	
For >1,000, Deduct	-1.32	
33 42 11 00-0248    LF    18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.85	8.59
For <100, Add	3.44	
For >1,000, Deduct	-1.59	
33 42 11 00-0249    LF    24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	43.48	10.07
For <100, Add	4.03	
For >1,000, Deduct	-2.17	
33 42 11 00-0250    LF    30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	61.58	13.56
For <100, Add	5.42	
For >1,000, Deduct	-3.08	
33 42 11 00-0251    LF    36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	80.86	17.14
For <100, Add	6.85	
For >1,000, Deduct	-4.04	
<b>33 42 11 00-0252</b> <b>Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0240)</small>		
33 42 11 00-0253    LF    12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.22	8.01
For <100, Add	3.21	
For >1,000, Deduct	-1.16	
33 42 11 00-0254    LF    15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.93	8.30
For <100, Add	3.32	
For >1,000, Deduct	-1.35	
33 42 11 00-0255    LF    18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.62	8.59
For <100, Add	3.44	
For >1,000, Deduct	-1.63	
33 42 11 00-0256    LF    24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	44.70	10.07
For <100, Add	4.03	
For >1,000, Deduct	-2.24	
33 42 11 00-0257    LF    30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	64.94	13.56
For <100, Add	5.42	
For >1,000, Deduct	-3.25	
33 42 11 00-0258    LF    36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	83.36	17.14
For <100, Add	6.85	
For >1,000, Deduct	-4.17	
33 42 11 00-0259    LF    42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	108.25	18.69
For <100, Add	7.48	
For >1,000, Deduct	-5.41	
33 42 11 00-0260    LF    48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	118.13	21.09
For <100, Add	8.44	
For >1,000, Deduct	-5.91	
<b>33 42 11 00-0261</b> <b>Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0239)</small>		
Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0262</b> <b>Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0261)</small>		
33 42 11 00-0263    LF    4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	11.81	5.52
For <100, Add	2.21	
For >1,000, Deduct	-0.59	
33 42 11 00-0264    LF    6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	14.53	6.43
For <100, Add	2.57	
For >1,000, Deduct	-0.73	
33 42 11 00-0265    LF    8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	17.92	7.47
For <100, Add	2.99	
For >1,000, Deduct	-0.90	
33 42 11 00-0266    LF    10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	20.96	7.74
For <100, Add	3.09	
For >1,000, Deduct	-1.05	
33 42 11 00-0267    LF    12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	22.88	8.01
For <100, Add	3.21	
For >1,000, Deduct	-1.14	



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0268	LF	15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.56	8.30
		<i>For &lt;100, Add</i>	3.32	
		<i>For &gt;1,000, Deduct</i>	-1.33	
33 42 11 00-0269	LF	18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.82	8.59
		<i>For &lt;100, Add</i>	3.44	
		<i>For &gt;1,000, Deduct</i>	-1.64	
33 42 11 00-0270	LF	24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	44.53	10.07
		<i>For &lt;100, Add</i>	4.03	
		<i>For &gt;1,000, Deduct</i>	-2.23	
<b>33 42 11 00-0271</b>		<b>Perforated, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0239)</small>		
		Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0272</b>		<b>Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0271)</small>		
33 42 11 00-0273	LF	4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.93	5.52
		<i>For &lt;100, Add</i>	2.21	
		<i>For &gt;1,000, Deduct</i>	-0.65	
33 42 11 00-0274	LF	6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.99	6.43
		<i>For &lt;100, Add</i>	2.57	
		<i>For &gt;1,000, Deduct</i>	-0.80	
33 42 11 00-0275	LF	8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.62	7.47
		<i>For &lt;100, Add</i>	2.99	
		<i>For &gt;1,000, Deduct</i>	-0.98	
33 42 11 00-0276	LF	10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.23	7.74
		<i>For &lt;100, Add</i>	3.09	
		<i>For &gt;1,000, Deduct</i>	-1.11	
33 42 11 00-0277	LF	12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.35	8.01
		<i>For &lt;100, Add</i>	3.21	
		<i>For &gt;1,000, Deduct</i>	-1.17	
33 42 11 00-0278	LF	15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.43	8.30
		<i>For &lt;100, Add</i>	3.32	
		<i>For &gt;1,000, Deduct</i>	-1.32	
33 42 11 00-0279	LF	18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.87	8.59
		<i>For &lt;100, Add</i>	3.44	
		<i>For &gt;1,000, Deduct</i>	-1.59	
33 42 11 00-0280	LF	24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	43.48	10.07
		<i>For &lt;100, Add</i>	4.03	
		<i>For &gt;1,000, Deduct</i>	-2.17	
33 42 11 00-0281	LF	30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	61.80	13.56
		<i>For &lt;100, Add</i>	5.42	
		<i>For &gt;1,000, Deduct</i>	-3.09	
33 42 11 00-0282	LF	36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	80.86	17.14
		<i>For &lt;100, Add</i>	6.85	
		<i>For &gt;1,000, Deduct</i>	-4.04	
<b>33 42 11 00-0283</b>		<b>Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0271)</small>		
33 42 11 00-0284	LF	12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.25	8.01
		<i>For &lt;100, Add</i>	3.21	
		<i>For &gt;1,000, Deduct</i>	-1.16	
33 42 11 00-0285	LF	15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.95	8.30
		<i>For &lt;100, Add</i>	3.32	
		<i>For &gt;1,000, Deduct</i>	-1.35	
33 42 11 00-0286	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.64	8.59
		<i>For &lt;100, Add</i>	3.44	
		<i>For &gt;1,000, Deduct</i>	-1.63	
33 42 11 00-0287	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	44.70	10.07
		<i>For &lt;100, Add</i>	4.03	
		<i>For &gt;1,000, Deduct</i>	-2.24	
33 42 11 00-0288	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	64.94	13.56
		<i>For &lt;100, Add</i>	5.42	
		<i>For &gt;1,000, Deduct</i>	-3.25	
33 42 11 00-0289	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	83.36	17.14
		<i>For &lt;100, Add</i>	6.85	
		<i>For &gt;1,000, Deduct</i>	-4.17	
33 42 11 00-0290	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	108.25	18.69
		<i>For &lt;100, Add</i>	7.48	
		<i>For &gt;1,000, Deduct</i>	-5.41	
33 42 11 00-0291	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	118.13	21.09
		<i>For &lt;100, Add</i>	8.44	
		<i>For &gt;1,000, Deduct</i>	-5.91	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-0292</b> <b>Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0271)</small>		
33 42 11 00-0293    LF    4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.22	5.52
For <100, Add	2.21	
For >1,000, Deduct	-0.61	
33 42 11 00-0294    LF    6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.53	6.43
For <100, Add	2.57	
For >1,000, Deduct	-0.73	
33 42 11 00-0295    LF    8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	17.84	7.47
For <100, Add	2.99	
For >1,000, Deduct	-0.89	
33 42 11 00-0296    LF    10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	20.96	7.74
For <100, Add	3.09	
For >1,000, Deduct	-1.05	
33 42 11 00-0297    LF    12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.88	8.01
For <100, Add	3.21	
For >1,000, Deduct	-1.14	
33 42 11 00-0298    LF    15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.56	8.30
For <100, Add	3.32	
For >1,000, Deduct	-1.33	
33 42 11 00-0299    LF    18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.82	8.59
For <100, Add	3.44	
For >1,000, Deduct	-1.64	
33 42 11 00-0300    LF    24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	44.53	10.07
For <100, Add	4.03	
For >1,000, Deduct	-2.23	
<b>33 42 11 00-0301</b> <b>Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0302</b> <b>Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0301)</small>		
33 42 11 00-0303    EA    4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	51.18	20.06
33 42 11 00-0304    EA    6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	63.98	23.40
33 42 11 00-0305    EA    8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	101.67	28.43
33 42 11 00-0306    EA    10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	153.65	35.11
33 42 11 00-0307    EA    12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	240.06	41.80
33 42 11 00-0308    EA    15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	338.04	54.62
33 42 11 00-0309    EA    18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	485.28	73.56
33 42 11 00-0310    EA    24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	620.07	83.97
33 42 11 00-0311    EA    30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,074.86	96.97
33 42 11 00-0312    EA    36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,378.27	112.02
33 42 11 00-0313    EA    42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,285.28	133.75
33 42 11 00-0314    EA    48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,866.81	158.83
<b>33 42 11 00-0315</b> <b>Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0301)</small>		
33 42 11 00-0316    EA    4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	73.37	20.06
33 42 11 00-0317    EA    6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	88.33	23.40
33 42 11 00-0318    EA    8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	117.04	28.43
33 42 11 00-0319    EA    10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	170.59	35.11
33 42 11 00-0320    EA    12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	294.58	41.80
33 42 11 00-0321    EA    15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	321.32	54.62
33 42 11 00-0322    EA    18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	452.74	73.56
<b>33 42 11 00-0323</b> <b>22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0301)</small>		
33 42 11 00-0324    EA    4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	31.33	13.37
33 42 11 00-0325    EA    6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	38.51	15.61
33 42 11 00-0326    EA    8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	55.48	18.95
33 42 11 00-0327    EA    10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	69.74	23.40
33 42 11 00-0328    EA    12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	100.08	27.86
33 42 11 00-0329    EA    15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	156.59	35.67
33 42 11 00-0330    EA    18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	207.85	49.04
33 42 11 00-0331    EA    24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	387.66	55.72
33 42 11 00-0332    EA    30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	536.31	64.64
33 42 11 00-0333    EA    36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	628.29	74.68
33 42 11 00-0334    EA    42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	801.79	89.17
33 42 11 00-0335    EA    48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,081.24	105.89
<b>33 42 11 00-0336</b> <b>45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0301)</small>		
33 42 11 00-0337    EA    4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	33.76	13.37
33 42 11 00-0338    EA    6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	43.56	15.61
33 42 11 00-0339    EA    8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	58.07	18.95

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0340 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	90.74	23.40
33 42 11 00-0341 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	100.08	27.86
33 42 11 00-0342 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	156.17	35.67
33 42 11 00-0343 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	241.72	49.04
33 42 11 00-0344 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	413.83	55.72
33 42 11 00-0345 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	537.55	64.64
33 42 11 00-0346 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	684.69	74.68
33 42 11 00-0347 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	1,019.48	89.17
33 42 11 00-0348 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	1,276.35	105.89
<b>33 42 11 00-0349 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> <small>(33 42 11 00-0239)</small>		
Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0350 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0349)</small>		
33 42 11 00-0351 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	36.24	20.06
33 42 11 00-0352 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	43.01	23.40
33 42 11 00-0353 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	68.00	28.43
33 42 11 00-0354 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	87.04	35.11
33 42 11 00-0355 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	127.27	41.80
33 42 11 00-0356 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	269.52	54.62
33 42 11 00-0357 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	323.85	73.56
33 42 11 00-0358 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	602.20	83.60
<b>33 42 11 00-0359 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0349)</small>		
33 42 11 00-0360 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	37.16	20.06
33 42 11 00-0361 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	46.01	23.40
33 42 11 00-0362 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	99.42	28.43
<b>33 42 11 00-0363 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0349)</small>		
33 42 11 00-0364 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	24.47	13.37
<b>33 42 11 00-0365 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0349)</small>		
33 42 11 00-0366 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	25.43	13.37
33 42 11 00-0367 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	32.56	15.61
33 42 11 00-0368 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	47.58	18.95
33 42 11 00-0369 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	62.40	23.40
<b>33 42 11 00-0370 Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0239)</small>		
Note: For single and double wall high density polyethylene (HDPE) piping.		
<b>33 42 11 00-0371 Couplings, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0370)</small>		
33 42 11 00-0372 EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	1.45	
33 42 11 00-0373 EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	2.60	
33 42 11 00-0374 EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	4.00	
33 42 11 00-0375 EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	4.92	
33 42 11 00-0376 EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	5.29	
33 42 11 00-0377 EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	7.53	
33 42 11 00-0378 EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	11.14	
33 42 11 00-0379 EA 24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	17.74	
33 42 11 00-0380 EA 30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	27.23	
33 42 11 00-0381 EA 36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	35.63	
33 42 11 00-0382 EA 42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	56.01	
33 42 11 00-0383 EA 48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	75.76	
<b>33 42 11 00-0384 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0370)</small>		
33 42 11 00-0385 EA 4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	76.71	
33 42 11 00-0386 EA 6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	80.32	
33 42 11 00-0387 EA 8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	84.10	
33 42 11 00-0388 EA 10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	88.05	
33 42 11 00-0389 EA 12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	104.43	
33 42 11 00-0390 EA 15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	107.82	
33 42 11 00-0391 EA 18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	112.46	
33 42 11 00-0392 EA 24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	128.10	
33 42 11 00-0393 EA 30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	205.35	
33 42 11 00-0394 EA 36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	224.92	
33 42 11 00-0395 EA 42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	245.07	
33 42 11 00-0396 EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe .....	297.64	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-0397</b> End Caps, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0370)</small>		
33 42 11 00-0398 EA 6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	23.26	
33 42 11 00-0399 EA 8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	26.88	
33 42 11 00-0400 EA 10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	41.02	
33 42 11 00-0401 EA 12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	66.83	
33 42 11 00-0402 EA 15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	77.29	
33 42 11 00-0403 EA 18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	103.05	
33 42 11 00-0404 EA 24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	107.40	
<b>33 42 11 00-0405</b> Vitrified Clay Piping <small>(33 42 11)</small>		
<b>33 42 11 00-0406</b> Extra Strength Vitrified Clay Piping <small>(33 42 11 00-0405)</small>		
<b>33 42 11 00-0407</b> Plain Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0406)</small>		
Note: ASTM C700.		
33 42 11 00-0408 LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	18.88	
For 3' Lengths, Add	1.95	
For 2' Lengths, Add	2.60	
For Standard Strength, Deduct	-0.65	
For >1,000, Deduct	-0.94	
33 42 11 00-0409 LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	31.19	
For 3' Lengths, Add	3.02	
For 2' Lengths, Add	4.03	
For Standard Strength, Deduct	-1.01	
For >1,000, Deduct	-1.56	
33 42 11 00-0410 LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	37.86	
For 3' Lengths, Add	4.32	
For 2' Lengths, Add	5.76	
For Standard Strength, Deduct	-1.44	
For >1,000, Deduct	-1.89	
33 42 11 00-0411 LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	46.65	
For 3' Lengths, Add	6.62	
For 2' Lengths, Add	8.82	
For Standard Strength, Deduct	-2.21	
For >1,000, Deduct	-2.33	
33 42 11 00-0412 LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	57.97	
For 3' Lengths, Add	9.34	
For 2' Lengths, Add	12.46	
For Standard Strength, Deduct	-3.11	
For >1,000, Deduct	-2.90	
33 42 11 00-0413 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	88.25	
For 3' Lengths, Add	17.52	
For 2' Lengths, Add	23.36	
For Standard Strength, Deduct	-5.84	
For >1,000, Deduct	-4.41	
33 42 11 00-0414 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	120.92	
For 3' Lengths, Add	25.11	
For 2' Lengths, Add	33.48	
For Standard Strength, Deduct	-8.37	
For >1,000, Deduct	-6.05	
33 42 11 00-0415 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	181.03	
For 3' Lengths, Add	40.23	
For 2' Lengths, Add	53.64	
For Standard Strength, Deduct	-13.41	
For >1,000, Deduct	-9.05	
33 42 11 00-0416 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	232.19	
For 3' Lengths, Add	52.56	
For 2' Lengths, Add	70.08	
For Standard Strength, Deduct	-17.52	
For >1,000, Deduct	-11.61	
33 42 11 00-0417 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	287.66	
For 3' Lengths, Add	65.53	
For 2' Lengths, Add	87.38	
For Standard Strength, Deduct	-21.84	
For >1,000, Deduct	-14.38	
33 42 11 00-0418 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	347.90	
For 3' Lengths, Add	79.16	
For 2' Lengths, Add	105.54	
For Standard Strength, Deduct	-26.39	
For >1,000, Deduct	-17.40	
<b>33 42 11 00-0419</b> Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0406)</small>		
Note: ASTM C425.		
33 42 11 00-0420 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	26.43	
For 3' Lengths, Add	2.30	
For 2' Lengths, Add	3.06	
For Standard Strength, Deduct	-0.77	
For >1,000, Deduct	-1.32	
33 42 11 00-0421 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	33.61	
For 3' Lengths, Add	3.75	
For 2' Lengths, Add	5.00	
For Standard Strength, Deduct	-1.25	
For >1,000, Deduct	-1.68	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0422 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	41.11	
For 3' Lengths, Add	5.30	
For 2' Lengths, Add	7.06	
For Standard Strength, Deduct	-1.77	
For >1,000, Deduct	-2.06	
33 42 11 00-0423 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	53.57	
For 3' Lengths, Add	8.69	
For 2' Lengths, Add	11.59	
For Standard Strength, Deduct	-2.90	
For >1,000, Deduct	-2.68	
33 42 11 00-0424 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	64.89	
For 3' Lengths, Add	11.42	
For 2' Lengths, Add	15.22	
For Standard Strength, Deduct	-3.81	
For >1,000, Deduct	-3.24	
33 42 11 00-0425 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	99.28	
For 3' Lengths, Add	20.83	
For 2' Lengths, Add	27.77	
For Standard Strength, Deduct	-6.94	
For >1,000, Deduct	-4.96	
33 42 11 00-0426 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	138.87	
For 3' Lengths, Add	30.50	
For 2' Lengths, Add	40.66	
For Standard Strength, Deduct	-10.17	
For >1,000, Deduct	-6.94	
33 42 11 00-0427 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	201.58	
For 3' Lengths, Add	46.39	
For 2' Lengths, Add	61.86	
For Standard Strength, Deduct	-15.46	
For >1,000, Deduct	-10.08	
33 42 11 00-0428 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	264.63	
For 3' Lengths, Add	62.29	
For 2' Lengths, Add	83.05	
For Standard Strength, Deduct	-20.76	
For >1,000, Deduct	-13.23	
33 42 11 00-0429 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	430.40	
For 3' Lengths, Add	108.35	
For 2' Lengths, Add	144.47	
For Standard Strength, Deduct	-36.12	
For >1,000, Deduct	-21.52	
33 42 11 00-0430 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	616.08	
For 3' Lengths, Add	159.61	
For 2' Lengths, Add	212.82	
For Standard Strength, Deduct	-53.20	
For >1,000, Deduct	-30.80	
<b>33 42 11 00-0431 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0405)</b>		
<b>33 42 11 00-0432 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)</b>		
<b>33 42 11 00-0433 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0432)</b>		
33 42 11 00-0434 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	83.47	
33 42 11 00-0435 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	114.38	
33 42 11 00-0436 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	167.01	
33 42 11 00-0437 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	234.48	
33 42 11 00-0438 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	313.13	
33 42 11 00-0439 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	772.36	
33 42 11 00-0440 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	1,092.85	
33 42 11 00-0441 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	1,713.12	
33 42 11 00-0442 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	1,975.16	
33 42 11 00-0443 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	2,290.12	
33 42 11 00-0444 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay .....	3,455.44	
<b>33 42 11 00-0445 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0432)</b>		
33 42 11 00-0446 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	93.57	
33 42 11 00-0447 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	136.01	
33 42 11 00-0448 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	187.28	
33 42 11 00-0449 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	256.24	
33 42 11 00-0450 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	328.16	
33 42 11 00-0451 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	864.76	
33 42 11 00-0452 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	1,263.36	
33 42 11 00-0453 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	1,291.37	
33 42 11 00-0454 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	2,532.73	
33 42 11 00-0455 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	2,814.16	
33 42 11 00-0456 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay .....	4,201.96	
<b>33 42 11 00-0457 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)</b>		
<b>33 42 11 00-0458 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0457)</b>		
33 42 11 00-0459 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	95.85	
33 42 11 00-0460 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	129.30	





	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	33

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0461	EA		8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	184.46	
33 42 11 00-0462	EA		10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	253.52	
33 42 11 00-0463	EA		12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	334.58	
33 42 11 00-0464	EA		15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	796.23	
33 42 11 00-0465	EA		18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	1,122.62	
33 42 11 00-0466	EA		21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	1,750.67	
33 42 11 00-0467	EA		24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	2,020.76	
33 42 11 00-0468	EA		30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	2,346.99	
33 42 11 00-0469	EA		36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay .....	3,518.65	
<b>33 42 11 00-0470</b>			<b>Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay</b> <small>(33 42 11 00-0457)</small>		
33 42 11 00-0471	EA		4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	108.44	
33 42 11 00-0472	EA		6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	153.91	
33 42 11 00-0473	EA		8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	208.22	
33 42 11 00-0474	EA		10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	279.09	
33 42 11 00-0475	EA		12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	353.91	
33 42 11 00-0476	EA		15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	893.40	
33 42 11 00-0477	EA		18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	1,299.09	
33 42 11 00-0478	EA		21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	2,548.82	
33 42 11 00-0479	EA		24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	2,587.44	
33 42 11 00-0480	EA		30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	2,882.40	
33 42 11 00-0481	EA		36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay .....	4,277.81	
<b>33 42 11 00-0482</b>			<b>Wyes Or Tees, Extra Strength, Vitrified Clay</b> <small>(33 42 11 00-0431)</small>		
<b>33 42 11 00-0483</b>			<b>Plain End Wyes Or Tees, Extra Strength, Vitrified Clay</b> <small>(33 42 11 00-0482)</small>		
33 42 11 00-0484	EA		4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	103.09	
33 42 11 00-0485	EA		6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	136.45	
33 42 11 00-0486	EA		8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	189.64	
33 42 11 00-0487	EA		10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	257.32	
33 42 11 00-0488	EA		12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	329.09	
33 42 11 00-0489	EA		15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	797.57	
33 42 11 00-0490	EA		18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	1,121.39	
33 42 11 00-0491	EA		21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	1,628.17	
33 42 11 00-0492	EA		24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,275.40	
33 42 11 00-0493	EA		30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,395.71	
33 42 11 00-0494	EA		36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	3,472.49	
<b>33 42 11 00-0495</b>			<b>Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay</b> <small>(33 42 11 00-0482)</small>		
33 42 11 00-0496	EA		4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	126.35	
33 42 11 00-0497	EA		6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	176.95	
33 42 11 00-0498	EA		8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	236.94	
33 42 11 00-0499	EA		10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	313.68	
33 42 11 00-0500	EA		12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	395.34	
33 42 11 00-0501	EA		15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	970.74	
33 42 11 00-0502	EA		18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	1,407.09	
33 42 11 00-0503	EA		21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,100.57	
33 42 11 00-0504	EA		24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,790.20	
33 42 11 00-0505	EA		30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	3,220.36	
33 42 11 00-0506	EA		36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee .....	4,602.05	
<b>33 42 11 00-0507</b>			<b>Vitrified Clay Couplings</b> <small>(33 42 11 00-0405)</small>		
<b>33 42 11 00-0508</b>			<b>Vitrified Clay To Cast Iron Or Plastic Pipe Couplings</b> <small>(33 42 11 00-0507)</small>		
			Note: Stainless steel tightening band at each end (Fernco #1002)		
33 42 11 00-0509	EA		4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	32.44	
33 42 11 00-0510	EA		4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	32.11	
33 42 11 00-0511	EA		5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	44.71	
33 42 11 00-0512	EA		5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	42.07	
33 42 11 00-0513	EA		6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	54.91	
33 42 11 00-0514	EA		6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	57.21	
33 42 11 00-0515	EA		6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	52.13	
33 42 11 00-0516	EA		8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	76.09	
33 42 11 00-0517	EA		8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	70.29	
33 42 11 00-0518	EA		10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	99.92	
33 42 11 00-0519	EA		10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	90.97	
33 42 11 00-0520	EA		12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	124.43	
33 42 11 00-0521	EA		12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	103.86	
33 42 11 00-0522	EA		15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	211.31	
33 42 11 00-0523	EA		15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling .....	162.29	
<b>33 42 11 00-0524</b>			<b>Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings</b> <small>(33 42 11 00-0507)</small>		
			Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0525	EA		4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	47.62	
33 42 11 00-0526	EA		6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	62.64	
33 42 11 00-0527	EA		6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	65.89	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 11 00-0528	EA	8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	69.08	
	33 42 11 00-0529	EA	10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	84.27	
	33 42 11 00-0530	EA	12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling .....	97.15	
<b>33 42 11 00-0531</b>	<b>Vitrified Clay To Plastic Pipe Non-Shear Couplings</b> <small>(33 42 11 00-0507)</small>				
			Note: Stainless steel tightening band at each end. (NDS Non-shear)		
	33 42 11 00-0532	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	48.71	
	33 42 11 00-0533	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	63.73	
	33 42 11 00-0534	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	58.87	
	33 42 11 00-0535	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	75.61	
	33 42 11 00-0536	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	107.13	
	33 42 11 00-0537	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling .....	120.62	
<b>33 42 11 00-0538</b>	<b>Corrugated Metal Piping</b> <small>(33 42 11)</small>				
<b>33 42 11 00-0539</b>	<b>Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0538)</small>				
<b>33 42 11 00-0540</b>	<b>2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0539)</small>				
<b>33 42 11 00-0541</b>	<b>16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0540)</small>				
	33 42 11 00-0542	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	28.99	8.53
			For Bituminous Coated Pipe, Add	2.73	
			For Bituminous Coated And 25% Paved, Add	5.58	
			For Smooth-Flo, Add	9.97	
	33 42 11 00-0543	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	32.54	8.93
			For Bituminous Coated Pipe, Add	3.44	
			For Bituminous Coated And 25% Paved, Add	7.03	
			For Smooth-Flo, Add	12.55	
	33 42 11 00-0544	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	36.20	9.74
			For Bituminous Coated Pipe, Add	4.16	
			For Bituminous Coated And 25% Paved, Add	8.51	
			For Smooth-Flo, Add	15.20	
	33 42 11 00-0545	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	41.09	10.55
			For Bituminous Coated Pipe, Add	4.98	
			For Bituminous Coated And 25% Paved, Add	10.19	
			For Smooth-Flo, Add	18.19	
	33 42 11 00-0546	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	45.41	11.36
			For Bituminous Coated Pipe, Add	5.60	
			For Bituminous Coated And 25% Paved, Add	11.46	
			For Smooth-Flo, Add	20.46	
	33 42 11 00-0547	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	60.01	14.61
			For Bituminous Coated Pipe, Add	7.27	
			For Bituminous Coated And 25% Paved, Add	14.87	
			For Smooth-Flo, Add	26.56	
	33 42 11 00-0548	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	77.85	18.84
			For Bituminous Coated Pipe, Add	9.17	
			For Bituminous Coated And 25% Paved, Add	18.76	
			For Smooth-Flo, Add	33.49	
	33 42 11 00-0549	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	88.43	22.26
			For Bituminous Coated Pipe, Add	10.85	
			For Bituminous Coated And 25% Paved, Add	22.20	
			For Smooth-Flo, Add	39.64	
	33 42 11 00-0550	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	99.40	25.69
			For Bituminous Coated Pipe, Add	12.15	
			For Bituminous Coated And 25% Paved, Add	24.86	
			For Smooth-Flo, Add	44.39	
<b>33 42 11 00-0551</b>	<b>14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0540)</small>				
	33 42 11 00-0552	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	31.43	8.53
			For Bituminous Coated Pipe, Add	2.77	
			For Bituminous Coated And 25% Paved, Add	6.42	
			For Smooth-Flo, Add	12.98	
	33 42 11 00-0553	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	35.54	8.93
			For Bituminous Coated Pipe, Add	3.47	
			For Bituminous Coated And 25% Paved, Add	8.05	
			For Smooth-Flo, Add	16.27	
	33 42 11 00-0554	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	39.83	9.74
			For Bituminous Coated Pipe, Add	4.21	
			For Bituminous Coated And 25% Paved, Add	9.75	
			For Smooth-Flo, Add	19.71	
	33 42 11 00-0555	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	45.28	10.55
			For Bituminous Coated Pipe, Add	5.00	
			For Bituminous Coated And 25% Paved, Add	11.59	
			For Smooth-Flo, Add	23.43	
	33 42 11 00-0556	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	50.29	11.36
			For Bituminous Coated Pipe, Add	5.66	
			For Bituminous Coated And 25% Paved, Add	13.12	
			For Smooth-Flo, Add	26.52	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0557	LF		30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	65.96	14.61
			<i>For Bituminous Coated Pipe, Add</i>	7.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	16.84	
			<i>For Smooth-Flo, Add</i>	34.05	
33 42 11 00-0558	LF		36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	85.08	18.84
			<i>For Bituminous Coated Pipe, Add</i>	9.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.12	
			<i>For Smooth-Flo, Add</i>	42.68	
33 42 11 00-0559	LF		42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	96.70	22.26
			<i>For Bituminous Coated Pipe, Add</i>	10.73	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.86	
			<i>For Smooth-Flo, Add</i>	50.24	
33 42 11 00-0560	LF		48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	108.87	25.69
			<i>For Bituminous Coated Pipe, Add</i>	12.06	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.93	
			<i>For Smooth-Flo, Add</i>	56.47	
33 42 11 00-0561	LF		54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	129.81	29.11
			<i>For Bituminous Coated Pipe, Add</i>	14.83	
			<i>For Bituminous Coated And 25% Paved, Add</i>	34.35	
			<i>For Smooth-Flo, Add</i>	69.44	
<b>33 42 11 00-0562</b>			<b>12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping<sup>(33)</sup></b>		
			<small><sup>(42 11 00-0540)</sup></small>		
33 42 11 00-0563	LF		18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	47.34	9.74
			<i>For Bituminous Coated Pipe, Add</i>	4.82	
			<i>For Bituminous Coated And 25% Paved, Add</i>	8.70	
			<i>For Smooth-Flo, Add</i>	16.72	
33 42 11 00-0564	LF		21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.01	10.55
			<i>For Bituminous Coated Pipe, Add</i>	5.70	
			<i>For Bituminous Coated And 25% Paved, Add</i>	10.28	
			<i>For Smooth-Flo, Add</i>	19.77	
33 42 11 00-0565	LF		24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	60.24	10.55
			<i>For Bituminous Coated Pipe, Add</i>	6.46	
			<i>For Bituminous Coated And 25% Paved, Add</i>	11.66	
			<i>For Smooth-Flo, Add</i>	22.41	
33 42 11 00-0566	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	78.26	14.61
			<i>For Bituminous Coated Pipe, Add</i>	8.21	
			<i>For Bituminous Coated And 25% Paved, Add</i>	14.83	
			<i>For Smooth-Flo, Add</i>	28.49	
33 42 11 00-0567	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	99.67	18.84
			<i>For Bituminous Coated Pipe, Add</i>	10.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	18.33	
			<i>For Smooth-Flo, Add</i>	35.23	
33 42 11 00-0568	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	113.56	22.26
			<i>For Bituminous Coated Pipe, Add</i>	11.89	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.48	
			<i>For Smooth-Flo, Add</i>	41.28	
33 42 11 00-0569	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	128.19	25.69
			<i>For Bituminous Coated Pipe, Add</i>	13.43	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.26	
			<i>For Smooth-Flo, Add</i>	46.62	
33 42 11 00-0570	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	151.15	29.11
			<i>For Bituminous Coated Pipe, Add</i>	16.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	29.09	
			<i>For Smooth-Flo, Add</i>	55.90	
33 42 11 00-0571	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	165.23	30.82
			<i>For Bituminous Coated Pipe, Add</i>	17.64	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.85	
			<i>For Smooth-Flo, Add</i>	61.22	
33 42 11 00-0572	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	200.08	37.67
			<i>For Bituminous Coated Pipe, Add</i>	21.47	
			<i>For Bituminous Coated And 25% Paved, Add</i>	38.78	
			<i>For Smooth-Flo, Add</i>	74.53	
<b>33 42 11 00-0573</b>			<b>10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping<sup>(33)</sup></b>		
			<small><sup>(42 11 00-0540)</sup></small>		
33 42 11 00-0574	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	113.33	18.84
			<i>For Bituminous Coated Pipe, Add</i>	12.91	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.57	
			<i>For Smooth-Flo, Add</i>	30.78	
33 42 11 00-0575	LF		42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	129.55	22.26
			<i>For Bituminous Coated Pipe, Add</i>	15.13	
			<i>For Bituminous Coated And 25% Paved, Add</i>	25.27	
			<i>For Smooth-Flo, Add</i>	36.06	
33 42 11 00-0576	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	146.33	25.69
			<i>For Bituminous Coated Pipe, Add</i>	17.10	
			<i>For Bituminous Coated And 25% Paved, Add</i>	28.56	
			<i>For Smooth-Flo, Add</i>	40.75	
33 42 11 00-0577	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	171.47	29.11
			<i>For Bituminous Coated Pipe, Add</i>	20.25	
			<i>For Bituminous Coated And 25% Paved, Add</i>	33.83	
			<i>For Smooth-Flo, Add</i>	48.27	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0578 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	187.84	30.82
For Bituminous Coated Pipe, Add	22.24	
For Bituminous Coated And 25% Paved, Add	37.15	
For Smooth-Flo, Add	53.01	
33 42 11 00-0579 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	224.93	37.67
For Bituminous Coated Pipe, Add	26.61	
For Bituminous Coated And 25% Paved, Add	44.44	
For Smooth-Flo, Add	63.42	
33 42 11 00-0580 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe .....	271.29	54.80
For Bituminous Coated Pipe, Add	28.57	
For Bituminous Coated And 25% Paved, Add	47.72	
For Smooth-Flo, Add	68.09	
<b>33 42 11 00-0581 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)</b>		
<b>33 42 11 00-0582 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0581)</b>		
33 42 11 00-0583 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	90.38	18.84
For Bituminous Coated Pipe, Add	10.08	
For Bituminous Coated And 25% Paved, Add	22.89	
For Smooth-Flo, Add	45.58	
33 42 11 00-0584 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	102.79	22.26
For Bituminous Coated Pipe, Add	11.84	
For Bituminous Coated And 25% Paved, Add	26.88	
For Smooth-Flo, Add	53.52	
33 42 11 00-0585 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	115.58	25.69
For Bituminous Coated Pipe, Add	13.28	
For Bituminous Coated And 25% Paved, Add	30.15	
For Smooth-Flo, Add	60.03	
33 42 11 00-0586 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	137.52	29.11
For Bituminous Coated Pipe, Add	16.22	
For Bituminous Coated And 25% Paved, Add	36.82	
For Smooth-Flo, Add	73.32	
33 42 11 00-0587 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	149.84	30.82
For Bituminous Coated Pipe, Add	17.67	
For Bituminous Coated And 25% Paved, Add	40.12	
For Smooth-Flo, Add	79.89	
33 42 11 00-0588 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	187.27	37.67
For Bituminous Coated Pipe, Add	22.70	
For Bituminous Coated And 25% Paved, Add	51.53	
For Smooth-Flo, Add	102.61	
33 42 11 00-0589 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	229.97	54.80
For Bituminous Coated Pipe, Add	24.20	
For Bituminous Coated And 25% Paved, Add	54.93	
For Smooth-Flo, Add	109.37	
33 42 11 00-0590 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	248.37	59.93
For Bituminous Coated Pipe, Add	25.70	
For Bituminous Coated And 25% Paved, Add	58.34	
For Smooth-Flo, Add	116.16	
33 42 11 00-0591 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	264.44	64.21
For Bituminous Coated Pipe, Add	27.20	
For Bituminous Coated And 25% Paved, Add	61.75	
For Smooth-Flo, Add	122.95	
33 42 11 00-0592 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	280.54	68.50
For Bituminous Coated Pipe, Add	28.71	
For Bituminous Coated And 25% Paved, Add	65.17	
For Smooth-Flo, Add	129.77	
33 42 11 00-0593 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	297.21	72.78
For Bituminous Coated Pipe, Add	30.21	
For Bituminous Coated And 25% Paved, Add	68.57	
For Smooth-Flo, Add	136.53	
33 42 11 00-0594 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	316.32	77.06
For Bituminous Coated Pipe, Add	31.72	
For Bituminous Coated And 25% Paved, Add	72.00	
For Smooth-Flo, Add	143.37	
<b>33 42 11 00-0595 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0581)</b>		
33 42 11 00-0596 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	150.30	29.11
For Bituminous Coated Pipe, Add	18.78	
For Bituminous Coated And 25% Paved, Add	36.80	
For Smooth-Flo, Add	74.36	
33 42 11 00-0597 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	163.98	30.82
For Bituminous Coated Pipe, Add	20.50	
For Bituminous Coated And 25% Paved, Add	40.18	
For Smooth-Flo, Add	81.19	
33 42 11 00-0598 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	202.82	37.67
For Bituminous Coated Pipe, Add	25.81	
For Bituminous Coated And 25% Paved, Add	50.59	
For Smooth-Flo, Add	102.22	
33 42 11 00-0599 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	246.92	54.80
For Bituminous Coated Pipe, Add	27.59	
For Bituminous Coated And 25% Paved, Add	54.07	
For Smooth-Flo, Add	109.25	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0600	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	266.68 29.36 57.55 116.27	59.93
33 42 11 00-0601	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	284.19 31.15 61.06 123.36	64.21
33 42 11 00-0602	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	301.62 32.93 64.53 130.39	68.50
33 42 11 00-0603	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	319.68 34.70 68.01 137.41	72.78
33 42 11 00-0604	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	340.15 36.49 71.51 144.48	77.06
33 42 11 00-0605	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	362.61 38.27 75.01 151.56	85.62
33 42 11 00-0606	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	384.53 40.02 78.45 158.50	94.18
<b>33 42 11 00-0607</b>		<b>12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0581)</small>		
33 42 11 00-0608	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	195.35 26.78 51.01 83.14	30.82
33 42 11 00-0609	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	237.57 32.76 62.41 101.73	37.67
33 42 11 00-0610	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	284.69 35.14 66.95 109.12	54.80
33 42 11 00-0611	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	307.52 37.53 71.49 116.53	59.93
33 42 11 00-0612	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	328.06 39.93 76.06 123.97	64.21
33 42 11 00-0613	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	348.56 42.31 80.61 131.38	68.50
33 42 11 00-0614	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	369.71 44.71 85.16 138.81	72.78
33 42 11 00-0615	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	393.23 47.10 89.73 146.25	77.06
33 42 11 00-0616	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	418.70 49.49 94.28 153.67	85.62
33 42 11 00-0617	LF	114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	443.70 51.86 98.79 161.02	94.18
33 42 11 00-0618	LF	120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	467.79 54.26 103.36 168.46	102.75
<b>33 42 11 00-0619</b>		<b>10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0581)</small>		
33 42 11 00-0620	LF	72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	319.92 42.19 80.16 107.16	54.80



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0621 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	345.63	59.93
For Bituminous Coated Pipe, Add	45.15	
For Bituminous Coated And 25% Paved, Add	85.79	
For Smooth-Flo, Add	114.69	
33 42 11 00-0622 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	369.07	64.21
For Bituminous Coated Pipe, Add	48.13	
For Bituminous Coated And 25% Paved, Add	91.44	
For Smooth-Flo, Add	122.25	
33 42 11 00-0623 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	392.46	68.50
For Bituminous Coated Pipe, Add	51.09	
For Bituminous Coated And 25% Paved, Add	97.08	
For Smooth-Flo, Add	129.78	
33 42 11 00-0624 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	416.50	72.78
For Bituminous Coated Pipe, Add	54.06	
For Bituminous Coated And 25% Paved, Add	102.72	
For Smooth-Flo, Add	137.32	
33 42 11 00-0625 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	442.92	77.06
For Bituminous Coated Pipe, Add	57.04	
For Bituminous Coated And 25% Paved, Add	108.38	
For Smooth-Flo, Add	144.88	
33 42 11 00-0626 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	471.27	85.62
For Bituminous Coated Pipe, Add	60.00	
For Bituminous Coated And 25% Paved, Add	114.01	
For Smooth-Flo, Add	152.41	
33 42 11 00-0627 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	499.14	94.18
For Bituminous Coated Pipe, Add	62.95	
For Bituminous Coated And 25% Paved, Add	119.60	
For Smooth-Flo, Add	159.88	
33 42 11 00-0628 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	526.14	102.75
For Bituminous Coated Pipe, Add	65.93	
For Bituminous Coated And 25% Paved, Add	125.26	
For Smooth-Flo, Add	167.45	
33 42 11 00-0629 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	554.70	111.31
For Bituminous Coated Pipe, Add	68.88	
For Bituminous Coated And 25% Paved, Add	130.87	
For Smooth-Flo, Add	174.96	
33 42 11 00-0630 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	585.45	119.87
For Bituminous Coated Pipe, Add	71.86	
For Bituminous Coated And 25% Paved, Add	136.53	
For Smooth-Flo, Add	182.51	
33 42 11 00-0631 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe .....	618.82	128.43
For Bituminous Coated Pipe, Add	74.84	
For Bituminous Coated And 25% Paved, Add	142.19	
For Smooth-Flo, Add	190.09	
<b>33 42 11 00-0632 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-</b>		
<b>0639)</b>		
<b>33 42 11 00-0633 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel</b>		
<b>Piping (33 42 11 00-0632)</b>		
33 42 11 00-0634 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	115.95	25.69
For Bituminous Coated Pipe, Add	16.69	
For Bituminous Coated And 25% Paved, Add	38.06	
For Smooth-Flo, Add	60.43	
33 42 11 00-0635 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	138.23	29.11
For Bituminous Coated Pipe, Add	20.46	
For Bituminous Coated And 25% Paved, Add	46.64	
For Smooth-Flo, Add	74.05	
33 42 11 00-0636 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	150.46	30.82
For Bituminous Coated Pipe, Add	22.25	
For Bituminous Coated And 25% Paved, Add	50.72	
For Smooth-Flo, Add	80.54	
33 42 11 00-0637 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	185.79	37.67
For Bituminous Coated Pipe, Add	28.01	
For Bituminous Coated And 25% Paved, Add	63.86	
For Smooth-Flo, Add	101.39	
33 42 11 00-0638 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	228.32	54.80
For Bituminous Coated Pipe, Add	29.84	
For Bituminous Coated And 25% Paved, Add	68.02	
For Smooth-Flo, Add	108.00	
33 42 11 00-0639 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	246.50	59.93
For Bituminous Coated Pipe, Add	31.66	
For Bituminous Coated And 25% Paved, Add	72.18	
For Smooth-Flo, Add	114.60	
33 42 11 00-0640 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	262.31	64.21
For Bituminous Coated Pipe, Add	33.47	
For Bituminous Coated And 25% Paved, Add	76.31	
For Smooth-Flo, Add	121.16	
33 42 11 00-0641 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	278.10	68.50
For Bituminous Coated Pipe, Add	35.28	
For Bituminous Coated And 25% Paved, Add	80.43	
For Smooth-Flo, Add	127.70	



	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0642	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	294.63	72.78
			<i>For Bituminous Coated Pipe, Add</i>	37.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	84.62	
			<i>For Smooth-Flo, Add</i>	134.35	
33 42 11 00-0643	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	313.68	77.06
			<i>For Bituminous Coated Pipe, Add</i>	38.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.90	
			<i>For Smooth-Flo, Add</i>	141.14	
<b>33 42 11 00-0644</b>			<b>14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b>		
			<small>(33 42 11 00-0632)</small>		
33 42 11 00-0645	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	154.21	29.11
			<i>For Bituminous Coated Pipe, Add</i>	19.56	
			<i>For Bituminous Coated And 25% Paved, Add</i>	45.97	
			<i>For Smooth-Flo, Add</i>	83.23	
33 42 11 00-0646	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	168.23	30.82
			<i>For Bituminous Coated Pipe, Add</i>	21.35	
			<i>For Bituminous Coated And 25% Paved, Add</i>	50.18	
			<i>For Smooth-Flo, Add</i>	90.85	
33 42 11 00-0647	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	205.18	37.67
			<i>For Bituminous Coated Pipe, Add</i>	26.28	
			<i>For Bituminous Coated And 25% Paved, Add</i>	61.77	
			<i>For Smooth-Flo, Add</i>	111.84	
33 42 11 00-0648	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	249.27	54.80
			<i>For Bituminous Coated Pipe, Add</i>	28.06	
			<i>For Bituminous Coated And 25% Paved, Add</i>	65.94	
			<i>For Smooth-Flo, Add</i>	119.39	
33 42 11 00-0649	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	269.34	59.93
			<i>For Bituminous Coated Pipe, Add</i>	29.89	
			<i>For Bituminous Coated And 25% Paved, Add</i>	70.25	
			<i>For Smooth-Flo, Add</i>	127.20	
33 42 11 00-0650	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	286.94	64.21
			<i>For Bituminous Coated Pipe, Add</i>	31.70	
			<i>For Bituminous Coated And 25% Paved, Add</i>	74.50	
			<i>For Smooth-Flo, Add</i>	134.89	
33 42 11 00-0651	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	303.61	68.50
			<i>For Bituminous Coated Pipe, Add</i>	33.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	78.31	
			<i>For Smooth-Flo, Add</i>	141.79	
33 42 11 00-0652	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	322.72	72.78
			<i>For Bituminous Coated Pipe, Add</i>	35.31	
			<i>For Bituminous Coated And 25% Paved, Add</i>	82.97	
			<i>For Smooth-Flo, Add</i>	150.24	
33 42 11 00-0653	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	343.27	77.06
			<i>For Bituminous Coated Pipe, Add</i>	37.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	87.21	
			<i>For Smooth-Flo, Add</i>	157.90	
33 42 11 00-0654	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	365.73	85.62
			<i>For Bituminous Coated Pipe, Add</i>	38.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	91.41	
			<i>For Smooth-Flo, Add</i>	165.50	
33 42 11 00-0655	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	388.04	94.18
			<i>For Bituminous Coated Pipe, Add</i>	40.73	
			<i>For Bituminous Coated And 25% Paved, Add</i>	95.71	
			<i>For Smooth-Flo, Add</i>	173.29	
<b>33 42 11 00-0656</b>			<b>12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b>		
			<small>(33 42 11 00-0632)</small>		
33 42 11 00-0657	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	201.50	30.82
			<i>For Bituminous Coated Pipe, Add</i>	28.01	
			<i>For Bituminous Coated And 25% Paved, Add</i>	53.21	
			<i>For Smooth-Flo, Add</i>	96.06	
33 42 11 00-0658	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	241.82	37.67
			<i>For Bituminous Coated Pipe, Add</i>	33.61	
			<i>For Bituminous Coated And 25% Paved, Add</i>	63.86	
			<i>For Smooth-Flo, Add</i>	115.29	
33 42 11 00-0659	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	289.40	54.80
			<i>For Bituminous Coated Pipe, Add</i>	36.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	68.56	
			<i>For Smooth-Flo, Add</i>	123.77	
33 42 11 00-0660	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	312.56	59.93
			<i>For Bituminous Coated Pipe, Add</i>	38.54	
			<i>For Bituminous Coated And 25% Paved, Add</i>	73.22	
			<i>For Smooth-Flo, Add</i>	132.19	
33 42 11 00-0661	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	333.28	64.21
			<i>For Bituminous Coated Pipe, Add</i>	40.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	77.84	
			<i>For Smooth-Flo, Add</i>	140.53	
33 42 11 00-0662	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	354.17	68.50
			<i>For Bituminous Coated Pipe, Add</i>	43.44	
			<i>For Bituminous Coated And 25% Paved, Add</i>	82.53	
			<i>For Smooth-Flo, Add</i>	148.99	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0663 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	375.60	72.78
For Bituminous Coated Pipe, Add	45.88	
For Bituminous Coated And 25% Paved, Add	87.18	
For Smooth-Flo, Add	157.38	
33 42 11 00-0664 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	399.36	77.06
For Bituminous Coated Pipe, Add	48.33	
For Bituminous Coated And 25% Paved, Add	91.82	
For Smooth-Flo, Add	165.77	
33 42 11 00-0665 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	425.21	85.62
For Bituminous Coated Pipe, Add	50.79	
For Bituminous Coated And 25% Paved, Add	96.50	
For Smooth-Flo, Add	174.22	
33 42 11 00-0666 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	450.62	94.18
For Bituminous Coated Pipe, Add	53.24	
For Bituminous Coated And 25% Paved, Add	101.16	
For Smooth-Flo, Add	182.62	
33 42 11 00-0667 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	474.96	102.75
For Bituminous Coated Pipe, Add	55.69	
For Bituminous Coated And 25% Paved, Add	105.81	
For Smooth-Flo, Add	191.02	
<b>33 42 11 00-0668 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b>		
(33 42 11 00-0632)		
33 42 11 00-0669 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	327.83	54.80
For Bituminous Coated Pipe, Add	43.77	
For Bituminous Coated And 25% Paved, Add	83.16	
For Smooth-Flo, Add	130.65	
33 42 11 00-0670 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	354.56	59.93
For Bituminous Coated Pipe, Add	46.94	
For Bituminous Coated And 25% Paved, Add	89.18	
For Smooth-Flo, Add	140.11	
33 42 11 00-0671 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	378.62	64.21
For Bituminous Coated Pipe, Add	50.04	
For Bituminous Coated And 25% Paved, Add	95.07	
For Smooth-Flo, Add	149.36	
33 42 11 00-0672 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	402.55	68.50
For Bituminous Coated Pipe, Add	53.11	
For Bituminous Coated And 25% Paved, Add	100.91	
For Smooth-Flo, Add	158.54	
33 42 11 00-0673 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	427.27	72.78
For Bituminous Coated Pipe, Add	56.22	
For Bituminous Coated And 25% Paved, Add	106.81	
For Smooth-Flo, Add	167.81	
33 42 11 00-0674 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	454.20	77.06
For Bituminous Coated Pipe, Add	59.30	
For Bituminous Coated And 25% Paved, Add	112.66	
For Smooth-Flo, Add	177.00	
33 42 11 00-0675 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	483.23	85.62
For Bituminous Coated Pipe, Add	62.40	
For Bituminous Coated And 25% Paved, Add	118.55	
For Smooth-Flo, Add	186.25	
33 42 11 00-0676 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	511.86	94.18
For Bituminous Coated Pipe, Add	65.49	
For Bituminous Coated And 25% Paved, Add	124.43	
For Smooth-Flo, Add	195.49	
33 42 11 00-0677 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	539.35	102.75
For Bituminous Coated Pipe, Add	68.57	
For Bituminous Coated And 25% Paved, Add	130.28	
For Smooth-Flo, Add	204.68	
33 42 11 00-0678 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	573.46	111.31
For Bituminous Coated Pipe, Add	72.63	
For Bituminous Coated And 25% Paved, Add	138.00	
For Smooth-Flo, Add	216.81	
33 42 11 00-0679 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	606.08	119.87
For Bituminous Coated Pipe, Add	75.98	
For Bituminous Coated And 25% Paved, Add	144.37	
For Smooth-Flo, Add	226.81	
33 42 11 00-0680 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	641.94	128.43
For Bituminous Coated Pipe, Add	79.46	
For Bituminous Coated And 25% Paved, Add	150.98	
For Smooth-Flo, Add	237.19	
<b>33 42 11 00-0681 Helical Ribbed, Galvanized Corrugated Steel Piping</b>		
(33 42 11 00-0539)		
<b>33 42 11 00-0682 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping</b>		
(33 42 11 00-0681)		
33 42 11 00-0683 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	41.08	9.74
For Bituminous Coated Pipe, Add	5.14	
33 42 11 00-0684 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	46.81	10.55
For Bituminous Coated Pipe, Add	6.13	
33 42 11 00-0685 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	52.13	11.36
For Bituminous Coated Pipe, Add	6.96	
33 42 11 00-0686 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	68.46	14.61
For Bituminous Coated Pipe, Add	8.97	



	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0687	LF		36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	88.20 11.24	18.84
33 42 11 00-0688	LF		42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	100.47 13.25	22.26
33 42 11 00-0689	LF		48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	113.20 14.92	25.69
33 42 11 00-0690	LF		54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	134.83 18.27	29.11
33 42 11 00-0691	LF		60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	147.09 19.95	30.82
<b>33 42 11 00-0692</b>			<b>14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)</b>		
33 42 11 00-0693	LF		18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	44.76 5.95	9.74
33 42 11 00-0694	LF		21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	51.12 7.07	10.55
33 42 11 00-0695	LF		24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	57.03 8.03	11.36
33 42 11 00-0696	LF		30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	74.55 10.30	14.61
33 42 11 00-0697	LF		36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	95.54 12.84	18.84
33 42 11 00-0698	LF		42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	109.06 15.12	22.26
33 42 11 00-0699	LF		48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	123.01 17.05	25.69
33 42 11 00-0700	LF		54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	145.85 20.66	29.11
33 42 11 00-0701	LF		60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	159.36 22.61	30.82
33 42 11 00-0702	LF		66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	195.37 28.09	37.67
33 42 11 00-0703	LF		72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	238.92 30.02	54.80
33 42 11 00-0704	LF		78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	258.29 31.98	59.93
<b>33 42 11 00-0705</b>			<b>12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)</b>		
33 42 11 00-0706	LF		30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	86.91 10.76	14.61
33 42 11 00-0707	LF		36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	110.30 13.29	18.84
33 42 11 00-0708	LF		42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	126.35 15.64	22.26
33 42 11 00-0709	LF		48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	142.73 17.68	25.69
33 42 11 00-0710	LF		54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	168.07 21.10	29.11
33 42 11 00-0711	LF		60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	184.07 23.17	30.82
33 42 11 00-0712	LF		66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	222.49 28.11	37.67
33 42 11 00-0713	LF		72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	268.48 30.15	54.80
33 42 11 00-0714	LF		78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	290.28 32.21	59.93
33 42 11 00-0715	LF		84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	309.70 34.26	64.21
33 42 11 00-0716	LF		90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	329.09 36.31	68.50
33 42 11 00-0717	LF		96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	349.10 38.35	72.78
33 42 11 00-0718	LF		102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	370.28 40.17	77.06
<b>33 42 11 00-0719</b>			<b>1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)</b>		
<b>33 42 11 00-0720</b>			<b>1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0719)</b>		
33 42 11 00-0721	LF		6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	15.10 1.31	4.87
33 42 11 00-0722	LF		6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	16.20 1.58	4.87
33 42 11 00-0723	LF		8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	18.90 1.74	6.09
33 42 11 00-0724	LF		8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	20.29 2.08	6.09
33 42 11 00-0725	LF		10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	23.91 2.19	7.30
33 42 11 00-0726	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	25.68 2.62	7.30

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>33 42 11 00-0727</b>	<b>Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping</b> <sup>(33)</sup>		
	<sup>42 11 00-0719)</sup>		
33 42 11 00-0728	LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	15.26 1.30	4.87
33 42 11 00-0729	LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	16.32 1.55	4.87
33 42 11 00-0730	LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	19.05 1.70	6.09
33 42 11 00-0731	LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	20.53 2.05	6.09
33 42 11 00-0732	LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	24.17 2.16	7.30
33 42 11 00-0733	LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	25.98 2.58	7.30
<b>33 42 11 00-0734</b>	<b>1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings</b> <sup>(33 42 11 00-0719)</sup>		
33 42 11 00-0735	EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	8.12 1.83	
33 42 11 00-0736	EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	10.75 2.42	
33 42 11 00-0737	EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	13.18 2.97	
33 42 11 00-0738	EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	29.28 4.04	
33 42 11 00-0739	EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	7.15 0.92	
33 42 11 00-0740	EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i>	8.95 1.38	
<b>33 42 11 00-0741</b>	<b>2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping</b> <sup>(33 42 11 00-0539)</sup>		
<b>33 42 11 00-0742</b>	<b>16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping</b> <sup>(33 42 11 00-0741)</sup>		
33 42 11 00-0743	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	45.10	8.53
33 42 11 00-0744	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	52.85	8.93
33 42 11 00-0745	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	60.83	9.74
33 42 11 00-0746	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	70.52	10.55
33 42 11 00-0747	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	78.58	11.36
33 42 11 00-0748	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	102.97	14.61
33 42 11 00-0749	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	132.10	18.84
33 42 11 00-0750	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	152.59	22.26
33 42 11 00-0751	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	171.29	25.69
<b>33 42 11 00-0752</b>	<b>14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping</b> <sup>(33 42 11 00-0741)</sup>		
33 42 11 00-0753	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	51.03	8.53
33 42 11 00-0754	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	60.20	8.93
33 42 11 00-0755	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	69.63	9.74
33 42 11 00-0756	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	80.71	10.55
33 42 11 00-0757	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	90.41	11.36
33 42 11 00-0758	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	117.50	14.61
33 42 11 00-0759	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	149.64	18.84
33 42 11 00-0760	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	172.72	22.26
33 42 11 00-0761	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	194.26	25.69
33 42 11 00-0762	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	234.86	29.11
<b>33 42 11 00-0763</b>	<b>12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping</b> <sup>(33 42 11 00-0741)</sup>		
33 42 11 00-0764	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	87.97	9.74
33 42 11 00-0765	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	102.12	10.55
33 42 11 00-0766	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	114.76	11.36
33 42 11 00-0767	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	147.91	14.61
33 42 11 00-0768	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	178.68	18.84
33 42 11 00-0769	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	215.26	22.26
33 42 11 00-0770	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	242.82	25.69
33 42 11 00-0771	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	290.26	29.11
33 42 11 00-0772	LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	317.15	30.82
33 42 11 00-0773	LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	388.25	37.67
<b>33 42 11 00-0774</b>	<b>10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping</b> <sup>(33 42 11 00-0741)</sup>		
33 42 11 00-0775	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	219.48	18.84
33 42 11 00-0776	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	254.02	22.26
33 42 11 00-0777	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	286.84	25.69
33 42 11 00-0778	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	339.57	29.11
33 42 11 00-0779	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	372.05	30.82





	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>33</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0780 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	448.55	37.67
33 42 11 00-0781 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe .....	510.80	54.80
<b>33 42 11 00-0782 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)</b>		
<b>33 42 11 00-0783 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)</b>		
33 42 11 00-0784 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	165.77	18.84
33 42 11 00-0785 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	191.42	22.26
33 42 11 00-0786 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	214.82	25.69
33 42 11 00-0787 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	259.61	29.11
33 42 11 00-0788 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	282.68	30.82
33 42 11 00-0789 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	359.39	37.67
33 42 11 00-0790 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	413.20	54.80
33 42 11 00-0791 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	442.67	59.93
33 42 11 00-0792 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	469.88	64.21
33 42 11 00-0793 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	497.11	68.50
33 42 11 00-0794 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	524.88	72.78
33 42 11 00-0795 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	555.17	77.06
<b>33 42 11 00-0796 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)</b>		
33 42 11 00-0797 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	291.32	29.11
33 42 11 00-0798 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	317.73	30.82
33 42 11 00-0799 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	397.99	37.67
33 42 11 00-0800 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	455.19	54.80
33 42 11 00-0801 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	488.09	59.93
33 42 11 00-0802 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	518.85	64.21
33 42 11 00-0803 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	549.41	68.50
33 42 11 00-0804 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	580.59	72.78
33 42 11 00-0805 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	614.33	77.06
33 42 11 00-0806 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	649.98	85.62
33 42 11 00-0807 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	684.84	94.18
<b>33 42 11 00-0808 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)</b>		
33 42 11 00-0809 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	397.46	30.82
33 42 11 00-0810 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	486.69	37.67
33 42 11 00-0811 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	551.58	54.80
33 42 11 00-0812 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	592.21	59.93
33 42 11 00-0813 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	630.66	64.21
33 42 11 00-0814 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	668.96	68.50
33 42 11 00-0815 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	707.93	72.78
33 42 11 00-0816 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	749.35	77.06
33 42 11 00-0817 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	792.62	85.62
33 42 11 00-0818 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	835.33	94.18
33 42 11 00-0819 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	877.33	102.75
<b>33 42 11 00-0820 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)</b>		
33 42 11 00-0821 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	639.41	54.80
33 42 11 00-0822 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	687.19	59.93
33 42 11 00-0823 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	732.87	64.21
33 42 11 00-0824 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	778.35	68.50
33 42 11 00-0825 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	824.55	72.78
33 42 11 00-0826 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	873.18	77.06
33 42 11 00-0827 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	923.67	85.62
33 42 11 00-0828 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	973.54	94.18
33 42 11 00-0829 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	1,022.74	102.75
33 42 11 00-0830 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	1,073.36	111.31
33 42 11 00-0831 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	1,126.32	119.87
33 42 11 00-0832 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe .....	1,181.91	128.43
<b>33 42 11 00-0833 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)</b>		
<b>33 42 11 00-0834 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)</b>		
33 42 11 00-0835 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	207.99	25.69
33 42 11 00-0836 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	252.09	29.11
33 42 11 00-0837 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	274.06	30.82
33 42 11 00-0838 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	343.37	37.67
33 42 11 00-0839 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	395.87	54.80
33 42 11 00-0840 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	423.98	59.93
33 42 11 00-0841 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	449.64	64.21
33 42 11 00-0842 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	475.24	68.50
33 42 11 00-0843 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	501.72	72.78
33 42 11 00-0844 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	531.05	77.06

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0845			<b>14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0833)</small>		
33 42 11 00-0846	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	289.75	29.11
33 42 11 00-0847	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	316.00	30.82
33 42 11 00-0848	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	389.11	37.67
33 42 11 00-0849	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	445.30	54.80
33 42 11 00-0850	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	477.87	59.93
33 42 11 00-0851	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	507.73	64.21
33 42 11 00-0852	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	535.43	68.50
33 42 11 00-0853	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	568.03	72.78
33 42 11 00-0854	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	600.86	77.06
33 42 11 00-0855	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	635.44	85.62
33 42 11 00-0856	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	670.20	94.18
33 42 11 00-0857			<b>12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0833)</small>		
33 42 11 00-0858	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	400.07	30.82
33 42 11 00-0859	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	482.13	37.67
33 42 11 00-0860	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	547.10	54.80
33 42 11 00-0861	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	587.40	59.93
33 42 11 00-0862	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	625.14	64.21
33 42 11 00-0863	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	663.34	68.50
33 42 11 00-0864	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	701.94	72.78
33 42 11 00-0865	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	742.77	77.06
33 42 11 00-0866	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	785.93	85.62
33 42 11 00-0867	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	828.50	94.18
33 42 11 00-0868	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	869.98	102.75
33 42 11 00-0869			<b>10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0833)</small>		
33 42 11 00-0870	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	639.37	54.80
33 42 11 00-0871	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	688.25	59.93
33 42 11 00-0872	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	734.08	64.21
33 42 11 00-0873	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	779.53	68.50
33 42 11 00-0874	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	825.95	72.78
33 42 11 00-0875	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	874.50	77.06
33 42 11 00-0876	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	925.21	85.62
33 42 11 00-0877	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	975.52	94.18
33 42 11 00-0878	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	1,024.62	102.75
33 42 11 00-0879	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	1,087.18	111.31
33 42 11 00-0880	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	1,143.30	119.87
33 42 11 00-0881	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe .....	1,203.52	128.43
33 42 11 00-0882			<b>Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0538)</small>		
33 42 11 00-0883			<b>2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0882)</small>		
33 42 11 00-0884			<b>16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0883)</small>		
33 42 11 00-0885	LF		17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	33.36	8.93
			For Bituminous Coated Pipe, Add	3.74	
			For Bituminous Coated And 25% Paved, Add	9.04	
			For Smooth-Flo, Add	14.91	
33 42 11 00-0886	LF		21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	36.94	9.74
			For Bituminous Coated Pipe, Add	4.47	
			For Bituminous Coated And 25% Paved, Add	10.80	
			For Smooth-Flo, Add	17.81	
33 42 11 00-0887	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	42.11	10.55
			For Bituminous Coated Pipe, Add	5.38	
			For Bituminous Coated And 25% Paved, Add	13.00	
			For Smooth-Flo, Add	21.45	
33 42 11 00-0888	LF		28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	47.14	11.36
			For Bituminous Coated Pipe, Add	6.20	
			For Bituminous Coated And 25% Paved, Add	14.98	
			For Smooth-Flo, Add	24.71	
33 42 11 00-0889	LF		35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	61.57	14.61
			For Bituminous Coated Pipe, Add	7.87	
			For Bituminous Coated And 25% Paved, Add	19.02	
			For Smooth-Flo, Add	31.38	
33 42 11 00-0890	LF		42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	80.71	18.84
			For Bituminous Coated Pipe, Add	10.15	
			For Bituminous Coated And 25% Paved, Add	24.53	
			For Smooth-Flo, Add	40.46	
33 42 11 00-0891			<b>14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0883)</small>		



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>33</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0892 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	36.39 3.88 9.08 14.89	8.93
33 42 11 00-0893 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	40.65 4.65 10.89 17.86	9.74
33 42 11 00-0894 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	46.24 5.53 12.94 21.23	10.55
33 42 11 00-0895 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	51.93 6.38 14.92 24.48	11.36
33 42 11 00-0896 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	67.55 8.08 18.90 31.00	14.61
33 42 11 00-0897 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	87.83 10.29 24.08 39.49	18.84
33 42 11 00-0898 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	100.61 12.26 28.68 47.04	22.26
<b>33 42 11 00-0899 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0893)</small>		
33 42 11 00-0900 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	52.50 5.04 11.21 17.23	10.27
33 42 11 00-0901 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	59.76 5.97 13.29 20.44	11.13
33 42 11 00-0902 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	66.99 6.85 15.24 23.44	11.99
33 42 11 00-0903 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	86.74 8.62 19.19 29.51	15.42
33 42 11 00-0904 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	102.34 10.79 24.02 36.93	18.84
33 42 11 00-0905 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	117.36 12.76 28.40 43.67	22.26
33 42 11 00-0906 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	136.67 15.14 33.68 51.79	25.69
33 42 11 00-0907 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	153.02 16.71 37.19 57.19	29.11
<b>33 42 11 00-0908 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0893)</small>		
33 42 11 00-0909 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	116.00 13.00 27.37 34.52	18.84
33 42 11 00-0910 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	133.29 15.34 32.29 40.72	22.26
33 42 11 00-0911 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	154.72 18.05 37.99 47.92	25.69
33 42 11 00-0912 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	173.43 20.01 42.13 53.13	29.11

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0913	LF		71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	189.94 21.97 46.25 58.33	30.82
<b>33 42 11 00-0914</b>			<b>3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small></b>		
<b>33 42 11 00-0915</b>			<b>14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small></b>		
33 42 11 00-0916	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	152.83 19.28 58.62 65.57	29.11
33 42 11 00-0917	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	166.98 21.10 64.15 71.75	30.82
33 42 11 00-0918	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	206.28 26.50 80.57 90.11	37.67
33 42 11 00-0919	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	251.05 28.41 86.38 96.61	54.80
33 42 11 00-0920	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	271.98 30.42 92.48 103.43	59.93
33 42 11 00-0921	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	290.63 32.44 98.62 110.30	64.21
33 42 11 00-0922	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	309.22 34.45 104.72 117.12	68.50
33 42 11 00-0923	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	328.41 36.45 110.80 123.92	72.78
<b>33 42 11 00-0924</b>			<b>12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small></b>		
33 42 11 00-0925	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	198.39 27.38 71.75 84.89	30.82
33 42 11 00-0926	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	241.11 33.47 87.69 103.76	37.67
33 42 11 00-0927	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	288.97 36.00 94.31 111.59	54.80
33 42 11 00-0928	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	312.96 38.62 101.18 119.72	59.93
33 42 11 00-0929	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	334.67 41.25 108.07 127.87	64.21
33 42 11 00-0930	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	356.35 43.87 114.94 136.00	68.50
33 42 11 00-0931	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	378.60 46.48 121.79 144.10	72.78
33 42 11 00-0932	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	403.35 49.13 128.71 152.29	77.06
33 42 11 00-0933	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	430.00 51.75 135.59 160.43	85.62
33 42 11 00-0934	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	457.59 54.64 143.15 169.37	94.18



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-0935</b> 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small>		
33 42 11 00-0936 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	324.20	54.80
For Bituminous Coated Pipe, Add	43.04	
For Bituminous Coated And 25% Paved, Add	102.44	
For Smooth-Flo, Add	111.27	
33 42 11 00-0937 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	351.10	59.93
For Bituminous Coated Pipe, Add	46.25	
For Bituminous Coated And 25% Paved, Add	110.07	
For Smooth-Flo, Add	119.55	
33 42 11 00-0938 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	375.71	64.21
For Bituminous Coated Pipe, Add	49.46	
For Bituminous Coated And 25% Paved, Add	117.71	
For Smooth-Flo, Add	127.84	
33 42 11 00-0939 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	400.22	68.50
For Bituminous Coated Pipe, Add	52.65	
For Bituminous Coated And 25% Paved, Add	125.30	
For Smooth-Flo, Add	136.09	
33 42 11 00-0940 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	425.40	72.78
For Bituminous Coated Pipe, Add	55.84	
For Bituminous Coated And 25% Paved, Add	132.91	
For Smooth-Flo, Add	144.36	
33 42 11 00-0941 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	453.00	77.06
For Bituminous Coated Pipe, Add	59.06	
For Bituminous Coated And 25% Paved, Add	140.55	
For Smooth-Flo, Add	152.66	
33 42 11 00-0942 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	482.55	85.62
For Bituminous Coated Pipe, Add	62.26	
For Bituminous Coated And 25% Paved, Add	148.18	
For Smooth-Flo, Add	160.94	
33 42 11 00-0943 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	512.80	94.18
For Bituminous Coated Pipe, Add	65.68	
For Bituminous Coated And 25% Paved, Add	156.31	
For Smooth-Flo, Add	169.78	
33 42 11 00-0944 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	545.42	102.75
For Bituminous Coated Pipe, Add	69.78	
For Bituminous Coated And 25% Paved, Add	166.08	
For Smooth-Flo, Add	180.39	
<b>33 42 11 00-0945</b> 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
<b>33 42 11 00-0946</b> 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0945)</small>		
33 42 11 00-0947 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	292.43	54.80
For Bituminous Coated Pipe, Add	36.69	
For Bituminous Coated And 25% Paved, Add	89.52	
For Smooth-Flo, Add	113.92	
33 42 11 00-0948 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	316.07	59.93
For Bituminous Coated Pipe, Add	39.24	
For Bituminous Coated And 25% Paved, Add	95.75	
For Smooth-Flo, Add	121.84	
33 42 11 00-0949 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	337.25	64.21
For Bituminous Coated Pipe, Add	41.76	
For Bituminous Coated And 25% Paved, Add	101.90	
For Smooth-Flo, Add	129.68	
33 42 11 00-0950 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	358.42	68.50
For Bituminous Coated Pipe, Add	44.29	
For Bituminous Coated And 25% Paved, Add	108.06	
For Smooth-Flo, Add	137.51	
33 42 11 00-0951 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	380.30	72.78
For Bituminous Coated Pipe, Add	46.82	
For Bituminous Coated And 25% Paved, Add	114.25	
For Smooth-Flo, Add	145.39	
33 42 11 00-0952 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	404.77	77.06
For Bituminous Coated Pipe, Add	49.41	
For Bituminous Coated And 25% Paved, Add	120.56	
For Smooth-Flo, Add	153.42	
33 42 11 00-0953 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	431.14	85.62
For Bituminous Coated Pipe, Add	51.98	
For Bituminous Coated And 25% Paved, Add	126.83	
For Smooth-Flo, Add	161.39	
33 42 11 00-0954 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	460.39	94.18
For Bituminous Coated Pipe, Add	55.20	
For Bituminous Coated And 25% Paved, Add	134.68	
For Smooth-Flo, Add	171.38	
<b>33 42 11 00-0955</b> 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0945)</small>		



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0956 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	331.43 44.49 100.55 109.22	54.80
33 42 11 00-0957 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	358.19 47.66 107.72 117.02	59.93
33 42 11 00-0958 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	382.54 50.82 114.86 124.77	64.21
33 42 11 00-0959 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	406.97 54.00 122.03 132.56	68.50
33 42 11 00-0960 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	431.49 57.06 128.96 140.09	72.78
33 42 11 00-0961 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	459.55 60.37 136.43 148.20	77.06
33 42 11 00-0962 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	489.15 63.58 143.69 156.09	85.62
33 42 11 00-0963 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	521.61 67.44 152.41 165.57	94.18
33 42 11 00-0964 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	551.93 71.08 160.65 174.51	102.75
<b>33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0882)</b>		
<b>33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> (33 42 11 00-0965)		
33 42 11 00-0967 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	52.90	8.93
33 42 11 00-0968 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	60.30	9.74
33 42 11 00-0969 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	70.29	10.55
33 42 11 00-0970 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	79.66	11.36
33 42 11 00-0971 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	103.00	14.61
33 42 11 00-0972 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	134.53	18.84
<b>33 42 11 00-0973 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> (33 42 11 00-0965)		
33 42 11 00-0974 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	59.88	8.93
33 42 11 00-0975 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	68.82	9.74
33 42 11 00-0976 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	79.80	10.55
33 42 11 00-0977 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	90.72	11.36
33 42 11 00-0978 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	116.74	14.61
33 42 11 00-0979 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	150.88	18.84
33 42 11 00-0980 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	175.88	22.26
<b>33 42 11 00-0981 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> (33 42 11 00-0965)		
33 42 11 00-0982 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	89.71	9.74
33 42 11 00-0983 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	104.54	10.55
33 42 11 00-0984 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	118.74	11.36
33 42 11 00-0985 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	151.71	14.61
33 42 11 00-0986 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	193.12	18.84
33 42 11 00-0987 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	225.07	22.26
33 42 11 00-0988 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	265.27	25.69
33 42 11 00-0989 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	294.66	29.11
<b>33 42 11 00-0990 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> (33 42 11 00-0965)		
33 42 11 00-0991 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	226.25	18.84
33 42 11 00-0992 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	263.73	22.26
33 42 11 00-0993 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	309.10	25.69
33 42 11 00-0994 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	344.20	29.11
33 42 11 00-0995 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	377.04	30.82
<b>33 42 11 00-0996 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0882)</b>		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-0997</b> 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-0998 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	297.54	29.11
33 42 11 00-0999 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	325.05	30.82
33 42 11 00-1000 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	406.48	37.67
33 42 11 00-1001 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	465.39	54.80
33 42 11 00-1002 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	501.19	59.93
33 42 11 00-1003 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	534.75	64.21
33 42 11 00-1004 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	568.18	68.50
33 42 11 00-1005 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	602.31	72.78
<b>33 42 11 00-1006</b> 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-1007 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	404.93	30.82
33 42 11 00-1008 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	495.41	37.67
33 42 11 00-1009 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	562.17	54.80
33 42 11 00-1010 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	605.69	59.93
33 42 11 00-1011 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	647.01	64.21
33 42 11 00-1012 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	688.28	68.50
33 42 11 00-1013 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	730.08	72.78
33 42 11 00-1014 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	774.50	77.06
33 42 11 00-1015 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	820.74	85.62
33 42 11 00-1016 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	869.88	94.18
<b>33 42 11 00-1017</b> 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-1018 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	649.98	54.80
33 42 11 00-1019 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	700.75	59.93
33 42 11 00-1020 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	749.33	64.21
33 42 11 00-1021 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	797.66	68.50
33 42 11 00-1022 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	846.69	72.78
33 42 11 00-1023 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	898.29	77.06
33 42 11 00-1024 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	951.76	85.62
33 42 11 00-1025 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,007.49	94.18
33 42 11 00-1026 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,070.72	102.75
<b>33 42 11 00-1027</b> 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
<b>33 42 11 00-1028</b> 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-1027)</small>		
33 42 11 00-1029 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	554.28	54.80
33 42 11 00-1030 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	595.82	59.93
33 42 11 00-1031 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	634.68	64.21
33 42 11 00-1032 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	673.49	68.50
33 42 11 00-1033 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	713.16	72.78
33 42 11 00-1034 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	755.74	77.06
33 42 11 00-1035 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	800.08	85.62
33 42 11 00-1036 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	851.89	94.18
<b>33 42 11 00-1037</b> 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-1027)</small>		
33 42 11 00-1038 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	647.93	54.80
33 42 11 00-1039 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	696.90	59.93
33 42 11 00-1040 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	743.36	64.21
33 42 11 00-1041 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	790.03	68.50
33 42 11 00-1042 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	836.09	72.78
33 42 11 00-1043 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	887.26	77.06
33 42 11 00-1044 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	939.39	85.62
33 42 11 00-1045 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	998.99	94.18
33 42 11 00-1046 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,054.70	102.75
<b>33 42 11 00-1047</b> Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0538)</small>		
<b>33 42 11 00-1048</b> 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1047)</small>		
<b>33 42 11 00-1049</b> 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1048)</small>		
33 42 11 00-1050 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	31.48	8.53
For 1/2 Bituminous Coated And 25% Paved, Add	5.56	
33 42 11 00-1051 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	35.68	8.93
For 1/2 Bituminous Coated And 25% Paved, Add	7.01	
33 42 11 00-1052 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	40.03	9.74
For 1/2 Bituminous Coated And 25% Paved, Add	8.50	
33 42 11 00-1053 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	45.65	10.55
For 1/2 Bituminous Coated And 25% Paved, Add	10.16	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1054 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.57 11.44	11.36
33 42 11 00-1055 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	66.70 14.84	14.61
33 42 11 00-1056 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	86.30 18.72	18.84
33 42 11 00-1057 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	98.40 22.14	22.26
33 42 11 00-1058 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	110.59 24.81	25.69
<b>33 42 11 00-1059 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1048)</small>		
33 42 11 00-1060 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	34.49 5.29	8.53
33 42 11 00-1061 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	39.40 6.63	8.93
33 42 11 00-1062 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	44.45 8.02	9.74
33 42 11 00-1063 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.78 9.54	10.55
33 42 11 00-1064 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	56.52 10.79	11.36
33 42 11 00-1065 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.98 13.86	14.61
33 42 11 00-1066 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	95.11 17.37	18.84
33 42 11 00-1067 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	108.55 20.46	22.26
33 42 11 00-1068 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.16 22.99	25.69
33 42 11 00-1069 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	146.14 28.26	29.11
<b>33 42 11 00-1070 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1048)</small>		
33 42 11 00-1071 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.75 7.47	9.74
33 42 11 00-1072 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	61.63 8.84	10.55
33 42 11 00-1073 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	68.85 10.02	11.36
33 42 11 00-1074 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.37 12.77	14.61
33 42 11 00-1075 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	113.67 15.85	18.84
33 42 11 00-1076 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	130.06 18.59	22.26
33 42 11 00-1077 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	146.70 20.97	25.69
33 42 11 00-1078 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	174.17 25.32	29.11
33 42 11 00-1079 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	190.22 27.68	30.82
33 42 11 00-1080 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	232.10 34.04	37.67
<b>33 42 11 00-1081 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1048)</small>		
33 42 11 00-1082 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	130.37 17.36	18.84
33 42 11 00-1083 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	149.59 20.35	22.26
33 42 11 00-1084 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	168.86 22.98	25.69
33 42 11 00-1085 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	199.02 27.38	29.11
33 42 11 00-1086 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	217.88 30.03	30.82
33 42 11 00-1087 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	262.48 36.23	37.67
33 42 11 00-1088 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	311.31 38.85	54.80
<b>33 42 11 00-1089 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1047)</small>		
<b>33 42 11 00-1090 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1089)</small>		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1091	LF		36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	99.42 20.81	18.84
33 42 11 00-1092	LF		42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	113.42 24.44	22.26
33 42 11 00-1093	LF		48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	127.49 27.41	25.69
33 42 11 00-1094	LF		54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	152.06 33.48	29.11
33 42 11 00-1095	LF		60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	165.68 36.47	30.82
33 42 11 00-1096	LF		66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	207.61 46.85	37.67
33 42 11 00-1097	LF		72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	251.65 49.93	54.80
33 42 11 00-1098	LF		78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	271.38 53.03	59.93
33 42 11 00-1099	LF		84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	288.81 56.13	64.21
33 42 11 00-1100	LF		90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	306.24 59.24	68.50
33 42 11 00-1101	LF		96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	324.27 62.33	72.78
33 42 11 00-1102	LF		102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	344.74 65.46	77.06
<b>33 42 11 00-1103</b>			<b>14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1089)</small>		
33 42 11 00-1104	LF		54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	167.14 29.01	29.11
33 42 11 00-1105	LF		60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	182.34 31.67	30.82
33 42 11 00-1106	LF		66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	225.95 39.87	37.67
33 42 11 00-1107	LF		72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	271.63 42.61	54.80
33 42 11 00-1108	LF		78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.98 45.35	59.93
33 42 11 00-1109	LF		84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	312.11 48.12	64.21
33 42 11 00-1110	LF		90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	331.13 50.86	68.50
33 42 11 00-1111	LF		96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	350.77 53.60	72.78
33 42 11 00-1112	LF		102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	372.86 56.37	77.06
33 42 11 00-1113	LF		108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	396.90 59.12	85.62
33 42 11 00-1114	LF		114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	420.41 61.83	94.18
<b>33 42 11 00-1115</b>			<b>12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1089)</small>		
33 42 11 00-1116	LF		60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	219.39 42.48	30.82
33 42 11 00-1117	LF		66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	266.96 51.97	37.67
33 42 11 00-1118	LF		72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	316.21 55.74	54.80
33 42 11 00-1119	LF		78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	341.18 59.53	59.93
33 42 11 00-1120	LF		84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	363.89 63.34	64.21
33 42 11 00-1121	LF		90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	386.53 67.13	68.50
33 42 11 00-1122	LF		96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	409.78 70.91	72.78
33 42 11 00-1123	LF		102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	435.46 74.71	77.06
33 42 11 00-1124	LF		108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	463.08 78.50	85.62
33 42 11 00-1125	LF		114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	490.21 82.26	94.18
33 42 11 00-1126	LF		120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	516.45 86.06	102.75
<b>33 42 11 00-1127</b>			<b>10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1089)</small>		
33 42 11 00-1128	LF		72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	357.79 68.42	54.80
33 42 11 00-1129	LF		78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	386.11 73.22	59.93



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1130 LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	412.24	64.21
For 1/2 Bituminous Coated And 25% Paved, Add	78.05	
33 42 11 00-1131 LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	438.25	68.50
For 1/2 Bituminous Coated And 25% Paved, Add	82.85	
33 42 11 00-1132 LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	464.96	72.78
For 1/2 Bituminous Coated And 25% Paved, Add	87.66	
33 42 11 00-1133 LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	494.07	77.06
For 1/2 Bituminous Coated And 25% Paved, Add	92.50	
33 42 11 00-1134 LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	525.06	85.62
For 1/2 Bituminous Coated And 25% Paved, Add	97.30	
33 42 11 00-1135 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	555.59	94.18
For 1/2 Bituminous Coated And 25% Paved, Add	102.07	
33 42 11 00-1136 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	585.26	102.75
For 1/2 Bituminous Coated And 25% Paved, Add	106.91	
33 42 11 00-1137 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	616.48	111.31
For 1/2 Bituminous Coated And 25% Paved, Add	111.70	
33 42 11 00-1138 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	649.90	119.87
For 1/2 Bituminous Coated And 25% Paved, Add	116.53	
33 42 11 00-1139 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	685.93	128.43
For 1/2 Bituminous Coated And 25% Paved, Add	121.36	
<b>33 42 11 00-1140 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
(33 42 11 00-1047)		
<b>33 42 11 00-1141 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
(33 42 11 00-1140)		
33 42 11 00-1142 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	127.97	25.69
For 1/2 Bituminous Coated And 25% Paved, Add	33.96	
33 42 11 00-1143 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	152.94	29.11
For 1/2 Bituminous Coated And 25% Paved, Add	41.60	
33 42 11 00-1144 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	166.45	30.82
For 1/2 Bituminous Coated And 25% Paved, Add	45.25	
33 42 11 00-1145 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	205.91	37.67
For 1/2 Bituminous Coated And 25% Paved, Add	56.96	
33 42 11 00-1146 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	249.75	54.80
For 1/2 Bituminous Coated And 25% Paved, Add	60.67	
33 42 11 00-1147 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	269.26	59.93
For 1/2 Bituminous Coated And 25% Paved, Add	64.39	
33 42 11 00-1148 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	286.37	64.21
For 1/2 Bituminous Coated And 25% Paved, Add	68.07	
33 42 11 00-1149 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	303.44	68.50
For 1/2 Bituminous Coated And 25% Paved, Add	71.74	
33 42 11 00-1150 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	321.30	72.78
For 1/2 Bituminous Coated And 25% Paved, Add	75.48	
33 42 11 00-1151 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	341.71	77.06
For 1/2 Bituminous Coated And 25% Paved, Add	79.30	
<b>33 42 11 00-1152 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
(33 42 11 00-1140)		
33 42 11 00-1153 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	171.79	29.11
For 1/2 Bituminous Coated And 25% Paved, Add	39.23	
33 42 11 00-1154 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	187.45	30.82
For 1/2 Bituminous Coated And 25% Paved, Add	42.83	
33 42 11 00-1155 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	228.79	37.67
For 1/2 Bituminous Coated And 25% Paved, Add	52.71	
33 42 11 00-1156 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	274.49	54.80
For 1/2 Bituminous Coated And 25% Paved, Add	56.27	
33 42 11 00-1157 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	296.21	59.93
For 1/2 Bituminous Coated And 25% Paved, Add	59.96	
33 42 11 00-1158 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	315.42	64.21
For 1/2 Bituminous Coated And 25% Paved, Add	63.58	
33 42 11 00-1159 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	333.56	68.50
For 1/2 Bituminous Coated And 25% Paved, Add	66.83	
33 42 11 00-1160 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	354.43	72.78
For 1/2 Bituminous Coated And 25% Paved, Add	70.81	
33 42 11 00-1161 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	376.63	77.06
For 1/2 Bituminous Coated And 25% Paved, Add	74.43	
33 42 11 00-1162 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	400.70	85.62
For 1/2 Bituminous Coated And 25% Paved, Add	78.01	
33 42 11 00-1163 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	424.66	94.18
For 1/2 Bituminous Coated And 25% Paved, Add	81.69	
<b>33 42 11 00-1164 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
(33 42 11 00-1140)		
33 42 11 00-1165 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	226.70	30.82
For 1/2 Bituminous Coated And 25% Paved, Add	47.26	
33 42 11 00-1166 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	272.06	37.67
For 1/2 Bituminous Coated And 25% Paved, Add	56.71	
33 42 11 00-1167 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	321.88	54.80
For 1/2 Bituminous Coated And 25% Paved, Add	60.89	





	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1168	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	347.22	59.93
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	65.02	
33 42 11 00-1169	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	370.15	64.21
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	69.13	
33 42 11 00-1170	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	393.28	68.50
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.30	
33 42 11 00-1171	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	416.89	72.78
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	77.42	
33 42 11 00-1172	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	442.86	77.06
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	81.55	
33 42 11 00-1173	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	470.93	85.62
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.71	
33 42 11 00-1174	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	498.54	94.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.84	
33 42 11 00-1175	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	525.10	102.75
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	93.98	
<b>33 42 11 00-1176</b>			<b>10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1140)</small>		
33 42 11 00-1177	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	367.25	54.80
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.87	
33 42 11 00-1178	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	396.82	59.93
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	79.21	
33 42 11 00-1179	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	423.69	64.21
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.44	
33 42 11 00-1180	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	450.38	68.50
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.63	
33 42 11 00-1181	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	477.85	72.78
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.86	
33 42 11 00-1182	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	507.59	77.06
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	100.06	
33 42 11 00-1183	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	539.40	85.62
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	105.29	
33 42 11 00-1184	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	570.81	94.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	110.51	
33 42 11 00-1185	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	601.08	102.75
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.71	
33 42 11 00-1186	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	638.87	111.31
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.57	
33 42 11 00-1187	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	674.50	119.87
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	128.22	
33 42 11 00-1188	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	713.48	128.43
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	134.09	
<b>33 42 11 00-1189</b>			<b>Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1047)</small>		
<b>33 42 11 00-1190</b>			<b>16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1189)</small>		
33 42 11 00-1191	LF		18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	45.10	9.74
33 42 11 00-1192	LF		21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	51.52	10.55
33 42 11 00-1193	LF		24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	57.52	11.36
33 42 11 00-1194	LF		30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	75.17	14.61
33 42 11 00-1195	LF		36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	96.25	18.84
33 42 11 00-1196	LF		42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	109.88	22.26
33 42 11 00-1197	LF		48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	123.94	25.69
33 42 11 00-1198	LF		54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	146.93	29.11
33 42 11 00-1199	LF		60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	160.52	30.82
<b>33 42 11 00-1200</b>			<b>14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1189)</small>		
33 42 11 00-1201	LF		18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	49.47	9.74
33 42 11 00-1202	LF		21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	56.62	10.55
33 42 11 00-1203	LF		24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	63.30	11.36
33 42 11 00-1204	LF		30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	82.40	14.61
33 42 11 00-1205	LF		36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	104.95	18.84
33 42 11 00-1206	LF		42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	120.05	22.26
33 42 11 00-1207	LF		48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	135.56	25.69
33 42 11 00-1208	LF		54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	160.00	29.11
33 42 11 00-1209	LF		60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	175.09	30.82
33 42 11 00-1210	LF		66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	212.83	37.67
33 42 11 00-1211	LF		72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	257.94	54.80
33 42 11 00-1212	LF		78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	278.86	59.93
<b>33 42 11 00-1213</b>			<b>12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1189)</small>		
33 42 11 00-1214	LF		30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	97.05	14.61
33 42 11 00-1215	LF		36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	122.49	18.84
33 42 11 00-1216	LF		42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	140.60	22.26
33 42 11 00-1217	LF		48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	159.00	25.69
33 42 11 00-1218	LF		54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	186.35	29.11

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1219 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	204.42	30.82
33 42 11 00-1220 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	245.02	37.67
33 42 11 00-1221 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	293.03	54.80
33 42 11 00-1222 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	316.87	59.93
33 42 11 00-1223 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	338.30	64.21
33 42 11 00-1224 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	359.75	68.50
33 42 11 00-1225 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	381.75	72.78
33 42 11 00-1226 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	404.74	77.06
<b>33 42 11 00-1227 Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-0538)</b>		
<b>33 42 11 00-1228 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-1227)</b>		
<b>33 42 11 00-1229 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-1228)</b>		
33 42 11 00-1230 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	36.70	8.93
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	9.05	
33 42 11 00-1231 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	40.94	9.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	10.82	
33 42 11 00-1232 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	46.90	10.55
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	13.01	
33 42 11 00-1233 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	52.67	11.36
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	14.99	
33 42 11 00-1234 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	68.60	14.61
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	19.04	
33 42 11 00-1235 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	89.78	18.84
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	24.56	
<b>33 42 11 00-1236 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-1228)</b>		
33 42 11 00-1237 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	40.42	8.93
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	9.38	
33 42 11 00-1238 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	45.44	9.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	11.24	
33 42 11 00-1239 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	51.97	10.55
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	13.37	
33 42 11 00-1240 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	58.54	11.36
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	15.42	
33 42 11 00-1241 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	75.91	14.61
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	19.52	
33 42 11 00-1242 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	98.48	18.84
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	24.87	
33 42 11 00-1243 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	113.31	22.26
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	29.63	
<b>33 42 11 00-1244 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-1228)</b>		
33 42 11 00-1245 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	54.62	9.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	10.29	
33 42 11 00-1246 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	62.85	10.55
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	12.24	
33 42 11 00-1247 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	70.86	11.36
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	14.05	
33 42 11 00-1248 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	91.30	14.61
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	17.72	
33 42 11 00-1249 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	117.08	18.84
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	22.29	
33 42 11 00-1250 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	134.99	22.26
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	26.41	
33 42 11 00-1251 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	158.01	25.69
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	31.45	
33 42 11 00-1252 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	176.38	29.11
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	34.67	
<b>33 42 11 00-1253 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33-42 11 00-1228)</b>		
33 42 11 00-1254 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	133.77	18.84
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	23.45	
33 42 11 00-1255 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	154.46	22.26
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	27.72	
33 42 11 00-1256 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	180.09	25.69
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	32.73	
33 42 11 00-1257 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	201.35	29.11
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	36.24	
33 42 11 00-1258 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....	220.41	30.82
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	39.74	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1259 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1227)</small>		
33 42 11 00-1260 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1259)</small>		
33 42 11 00-1261 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	170.11	29.11
For 1/2 Bituminous Coated And 40% Paved, Add	52.07	
33 42 11 00-1262 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	185.89	30.82
For 1/2 Bituminous Coated And 40% Paved, Add	56.98	
33 42 11 00-1263 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	230.03	37.67
For 1/2 Bituminous Coated And 40% Paved, Add	71.57	
33 42 11 00-1264 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	276.50	54.80
For 1/2 Bituminous Coated And 40% Paved, Add	76.72	
33 42 11 00-1265 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	299.24	59.93
For 1/2 Bituminous Coated And 40% Paved, Add	82.15	
33 42 11 00-1266 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	319.68	64.21
For 1/2 Bituminous Coated And 40% Paved, Add	87.59	
33 42 11 00-1267 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	340.05	68.50
For 1/2 Bituminous Coated And 40% Paved, Add	93.00	
33 42 11 00-1268 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	361.09	72.78
For 1/2 Bituminous Coated And 40% Paved, Add	98.43	
33 42 11 00-1269 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1259)</small>		
33 42 11 00-1270 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	222.96	30.82
For 1/2 Bituminous Coated And 40% Paved, Add	64.76	
33 42 11 00-1271 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	271.13	37.67
For 1/2 Bituminous Coated And 40% Paved, Add	79.15	
33 42 11 00-1272 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	321.25	54.80
For 1/2 Bituminous Coated And 40% Paved, Add	85.12	
33 42 11 00-1273 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	347.56	59.93
For 1/2 Bituminous Coated And 40% Paved, Add	91.30	
33 42 11 00-1274 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	371.65	64.21
For 1/2 Bituminous Coated And 40% Paved, Add	97.53	
33 42 11 00-1275 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	395.69	68.50
For 1/2 Bituminous Coated And 40% Paved, Add	103.74	
33 42 11 00-1276 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	420.29	72.78
For 1/2 Bituminous Coated And 40% Paved, Add	109.92	
33 42 11 00-1277 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	447.39	77.06
For 1/2 Bituminous Coated And 40% Paved, Add	116.16	
33 42 11 00-1278 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	476.40	85.62
For 1/2 Bituminous Coated And 40% Paved, Add	122.37	
33 42 11 00-1279 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	506.59	94.18
For 1/2 Bituminous Coated And 40% Paved, Add	129.19	
33 42 11 00-1280 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1259)</small>		
33 42 11 00-1281 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	362.80	54.80
For 1/2 Bituminous Coated And 40% Paved, Add	92.14	
33 42 11 00-1282 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	392.57	59.93
For 1/2 Bituminous Coated And 40% Paved, Add	98.99	
33 42 11 00-1283 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	420.06	64.21
For 1/2 Bituminous Coated And 40% Paved, Add	105.86	
33 42 11 00-1284 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	447.44	68.50
For 1/2 Bituminous Coated And 40% Paved, Add	112.69	
33 42 11 00-1285 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	477.77	72.78
For 1/2 Bituminous Coated And 40% Paved, Add	120.37	
33 42 11 00-1286 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	505.97	77.06
For 1/2 Bituminous Coated And 40% Paved, Add	126.41	
33 42 11 00-1287 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	538.41	85.62
For 1/2 Bituminous Coated And 40% Paved, Add	133.28	
33 42 11 00-1288 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	571.69	94.18
For 1/2 Bituminous Coated And 40% Paved, Add	140.58	
33 42 11 00-1289 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	607.99	102.75
For 1/2 Bituminous Coated And 40% Paved, Add	149.37	
33 42 11 00-1290 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1227)</small>		
33 42 11 00-1291 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1290)</small>		
33 42 11 00-1292 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	325.45	54.80
For 1/2 Bituminous Coated And 40% Paved, Add	83.77	
33 42 11 00-1293 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	351.39	59.93
For 1/2 Bituminous Coated And 40% Paved, Add	89.60	
33 42 11 00-1294 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	374.85	64.21
For 1/2 Bituminous Coated And 40% Paved, Add	95.36	
33 42 11 00-1295 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	398.29	68.50
For 1/2 Bituminous Coated And 40% Paved, Add	101.12	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1296 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	422.45	72.78
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	106.92	
33 42 11 00-1297 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	449.24	77.06
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	112.82	
33 42 11 00-1298 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	477.93	85.62
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	118.69	
33 42 11 00-1299 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	510.08	94.18
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	126.03	
<b>33 42 11 00-1300 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1290)</small>		
33 42 11 00-1301 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	371.47	54.80
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	92.92	
33 42 11 00-1302 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	401.10	59.93
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	99.56	
33 42 11 00-1303 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	428.28	64.21
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	106.15	
33 42 11 00-1304 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	455.57	68.50
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	112.78	
33 42 11 00-1305 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	482.87	72.78
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	119.19	
33 42 11 00-1306 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	513.88	77.06
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	126.08	
33 42 11 00-1307 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	546.40	85.62
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	132.80	
33 42 11 00-1308 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	582.32	94.18
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	140.86	
33 42 11 00-1309 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	615.93	102.75
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	148.47	
<b>33 42 11 00-1310 Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-0538)</small>		
<b>33 42 11 00-1311 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1310)</small>		
<b>33 42 11 00-1312 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1311)</small>		
33 42 11 00-1313 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	18.71	4.87
<i>For Bituminous Coated Pipe, Add</i>	1.72	
33 42 11 00-1314 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	23.98	6.09
<i>For Bituminous Coated Pipe, Add</i>	2.34	
33 42 11 00-1315 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	31.03	7.30
<i>For Bituminous Coated Pipe, Add</i>	3.08	
<b>33 42 11 00-1316 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1311)</small>		
33 42 11 00-1317 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	20.68	4.87
<i>For Bituminous Coated Pipe, Add</i>	1.71	
33 42 11 00-1318 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	26.77	6.09
<i>For Bituminous Coated Pipe, Add</i>	2.34	
33 42 11 00-1319 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	34.76	7.30
<i>For Bituminous Coated Pipe, Add</i>	3.08	
<b>33 42 11 00-1320 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1310)</small>		
<b>33 42 11 00-1321 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1320)</small>		
33 42 11 00-1322 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	36.02	8.53
<i>For Bituminous Coated Pipe, Add</i>	3.39	
33 42 11 00-1323 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	41.32	8.93
<i>For Bituminous Coated Pipe, Add</i>	4.25	
33 42 11 00-1324 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	46.93	9.74
<i>For Bituminous Coated Pipe, Add</i>	5.17	
33 42 11 00-1325 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	53.85	10.55
<i>For Bituminous Coated Pipe, Add</i>	6.17	
33 42 11 00-1326 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	60.06	11.36
<i>For Bituminous Coated Pipe, Add</i>	6.99	
<b>33 42 11 00-1327 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1320)</small>		
33 42 11 00-1328 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	40.26	8.53
<i>For Bituminous Coated Pipe, Add</i>	3.31	
33 42 11 00-1329 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	46.72	8.93
<i>For Bituminous Coated Pipe, Add</i>	4.17	
33 42 11 00-1330 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	53.40	9.74
<i>For Bituminous Coated Pipe, Add</i>	5.06	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1331 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	61.35 6.00	10.55
33 42 11 00-1332 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	68.67 6.82	11.36
33 42 11 00-1333 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	89.45 8.74	14.61
33 42 11 00-1334 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	113.92 10.87	18.84
<b>33 42 11 00-1335 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1320)</small>		
33 42 11 00-1336 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	85.12 6.47	11.36
33 42 11 00-1337 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	109.93 8.24	14.61
33 42 11 00-1338 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	138.52 10.15	18.84
33 42 11 00-1339 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	159.51 11.94	22.26
33 42 11 00-1340 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	180.39 13.51	25.69
33 42 11 00-1341 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	212.07 16.03	29.11
<b>33 42 11 00-1342 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1320)</small>		
33 42 11 00-1343 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	164.74 9.98	18.84
33 42 11 00-1344 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	190.05 11.72	22.26
33 42 11 00-1345 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	215.40 13.30	25.69
33 42 11 00-1346 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	251.45 15.60	29.11
33 42 11 00-1347 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	276.39 17.19	30.82
<b>33 42 11 00-1348 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1310)</small>		
<b>33 42 11 00-1349 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1348)</small>		
33 42 11 00-1350 LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	88.11	14.61
33 42 11 00-1351 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	112.25	18.84
33 42 11 00-1352 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	128.31	22.26
33 42 11 00-1353 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	145.29	25.69
33 42 11 00-1354 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	171.41	29.11
<b>33 42 11 00-1355 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1348)</small>		
33 42 11 00-1356 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	98.90	14.61
33 42 11 00-1357 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	127.64	18.84
33 42 11 00-1358 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	146.18	22.26
33 42 11 00-1359 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	164.79	25.69
33 42 11 00-1360 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	194.25	29.11
33 42 11 00-1361 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	212.37	30.82
33 42 11 00-1362 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	258.23	37.67
33 42 11 00-1363 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	306.65	54.80
33 42 11 00-1364 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	330.77	59.93
<b>33 42 11 00-1365 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1348)</small>		
33 42 11 00-1366 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	124.09	14.61
33 42 11 00-1367 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	155.97	18.84
33 42 11 00-1368 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	180.03	22.26
33 42 11 00-1369 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	203.61	25.69
33 42 11 00-1370 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	237.83	29.11
33 42 11 00-1371 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	260.63	30.82
33 42 11 00-1372 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	311.15	37.67
33 42 11 00-1373 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	364.37	54.80
33 42 11 00-1374 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	393.21	59.93
33 42 11 00-1375 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	419.81	64.21
33 42 11 00-1376 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	446.32	68.50
33 42 11 00-1377 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	473.47	72.78



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1378			<b>10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1348)</small>		
33 42 11 00-1379	LF		60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	311.39	30.82
33 42 11 00-1380	LF		66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	364.84	37.67
33 42 11 00-1381	LF		72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	422.88	54.80
33 42 11 00-1382	LF		78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	456.55	59.93
33 42 11 00-1383	LF		84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	487.89	64.21
33 42 11 00-1384	LF		90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	519.21	68.50
33 42 11 00-1385	LF		96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	551.14	72.78
33 42 11 00-1386	LF		102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	585.53	77.06
33 42 11 00-1387	LF		108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	621.84	85.62
33 42 11 00-1388			<b>Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1370)</small>		
			Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1389			<b>16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1388)</small>		
33 42 11 00-1390	LF		18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	61.45	9.74
33 42 11 00-1391	LF		21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	66.11	10.55
33 42 11 00-1392	LF		24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	79.37	11.36
33 42 11 00-1393	LF		27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	91.64	12.98
33 42 11 00-1394	LF		30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	102.89	14.61
33 42 11 00-1395	LF		33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	114.51	16.23
33 42 11 00-1396			<b>14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1388)</small>		
33 42 11 00-1397	LF		18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	70.58	9.74
33 42 11 00-1398	LF		21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	81.41	10.55
33 42 11 00-1399	LF		24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	91.64	11.36
33 42 11 00-1400	LF		27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	105.41	12.98
33 42 11 00-1401	LF		30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	118.17	14.61
33 42 11 00-1402	LF		33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	131.35	16.23
33 42 11 00-1403	LF		36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	148.59	18.84
33 42 11 00-1404	LF		42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	171.24	22.26
33 42 11 00-1405	LF		48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	193.75	25.69
33 42 11 00-1406			<b>12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1388)</small>		
33 42 11 00-1407	LF		30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	148.04	14.61
33 42 11 00-1408	LF		33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	164.14	16.23
33 42 11 00-1409	LF		36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	184.41	18.84
33 42 11 00-1410	LF		42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	213.07	22.26
33 42 11 00-1411	LF		48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	241.56	25.69
33 42 11 00-1412	LF		54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	332.79	29.11
33 42 11 00-1413	LF		60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	366.19	30.82
33 42 11 00-1414			<b>10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1388)</small>		
33 42 11 00-1415	LF		48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	338.97	25.69
33 42 11 00-1416	LF		54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	392.85	29.11
33 42 11 00-1417	LF		60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	432.99	30.82
33 42 11 00-1418	LF		66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	503.32	37.67
33 42 11 00-1419	LF		72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	572.87	54.80
33 42 11 00-1420	LF		78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	618.59	59.93
33 42 11 00-1421	LF		84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	661.61	64.21
33 42 11 00-1422			<b>Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-0538)</small>		
33 42 11 00-1423			<b>2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1422)</small>		
33 42 11 00-1424			<b>16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1423)</small>		
33 42 11 00-1425	LF		17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	43.25	8.93
			For Bituminous Coated Pipe, Add	4.26	
33 42 11 00-1426	LF		21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	48.75	9.74
			For Bituminous Coated Pipe, Add	5.09	
33 42 11 00-1427	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	55.93	10.55
			For Bituminous Coated Pipe, Add	6.06	
33 42 11 00-1428			<b>14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1423)</small>		
33 42 11 00-1429	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	48.66	8.93
			For Bituminous Coated Pipe, Add	4.24	



	<b>Utilities</b>	<b>33</b>
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1430	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	53.94 4.89	9.74
33 42 11 00-1431	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	63.43 6.01	10.55
33 42 11 00-1432	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	71.49 6.89	11.36
33 42 11 00-1433	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	92.26 8.72	14.61
<b>33 42 11 00-1434</b>			<b>12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1423)</small>		
33 42 11 00-1435	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	87.95 6.57	11.36
33 42 11 00-1436	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	112.79 8.28	14.61
33 42 11 00-1437	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	143.35 10.34	18.84
33 42 11 00-1438	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	165.87 12.23	22.26
<b>33 42 11 00-1439</b>			<b>10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1423)</small>		
33 42 11 00-1440	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	169.54 9.98	18.84
33 42 11 00-1441	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	196.47 11.77	22.26
33 42 11 00-1442	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	228.28 13.79	25.69
33 42 11 00-1443	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	255.68 15.34	29.11
<b>33 42 11 00-1444</b>			<b>3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1422)</small>		
<b>33 42 11 00-1445</b>			<b>14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1444)</small>		
33 42 11 00-1446	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	198.48	29.11
33 42 11 00-1447	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	217.29	30.82
33 42 11 00-1448	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	264.31	37.67
<b>33 42 11 00-1449</b>			<b>12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1444)</small>		
33 42 11 00-1450	LF		60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	242.06	29.11
33 42 11 00-1451	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	265.55	30.82
33 42 11 00-1452	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	317.02	37.67
33 42 11 00-1453	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	370.68	54.80
33 42 11 00-1454	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	399.97	59.93
33 42 11 00-1455	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	427.01	64.21
<b>33 42 11 00-1456</b>			<b>10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1444)</small>		
33 42 11 00-1457	LF		66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	316.23	30.82
33 42 11 00-1458	LF		73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	370.49	37.67
33 42 11 00-1459	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	428.96	54.80
33 42 11 00-1460	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	463.08	59.93
33 42 11 00-1461	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	494.86	64.21
33 42 11 00-1462	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	526.62	68.50
<b>33 42 11 00-1463</b>			<b>Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-0538)</small> Note: Equivalent pipe-arch sizes are approximate.		
<b>33 42 11 00-1464</b>			<b>Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-1463)</small> Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1465	EA		Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	73.08	
33 42 11 00-1466	EA		Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	91.64	
33 42 11 00-1467	EA		Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	110.21	
33 42 11 00-1468	EA		Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	129.95	
33 42 11 00-1469	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	157.77	
33 42 11 00-1470	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	185.60	
33 42 11 00-1471	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	213.45	
33 42 11 00-1472	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	241.28	
33 42 11 00-1473	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	314.37	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1474	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	374.68	
33 42 11 00-1475	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	435.01	
33 42 11 00-1476	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	562.62	
33 42 11 00-1477	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	634.54	
33 42 11 00-1478	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	708.78	
33 42 11 00-1479	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	785.35	
33 42 11 00-1480	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	957.03	
33 42 11 00-1481	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,044.02	
33 42 11 00-1482	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,133.34	
33 42 11 00-1483	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,390.87	
33 42 11 00-1484	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,492.96	
33 42 11 00-1485	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,596.20	
33 42 11 00-1486	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,699.44	
33 42 11 00-1487	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,801.52	
33 42 11 00-1488	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,904.77	
33 42 11 00-1489	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,013.62	
33 42 11 00-1490	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,128.70	
33 42 11 00-1491	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,250.33	
<b>33 42 11 00-1492</b>		<b>Fabricate Corrugated Steel Pipe Tees Or Laterals</b> <small>(33 42 11 00-1463)</small>		
		Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1493	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	95.12	
33 42 11 00-1494	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	121.81	
33 42 11 00-1495	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	148.47	
33 42 11 00-1496	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	175.17	
33 42 11 00-1497	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	213.45	
33 42 11 00-1498	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	252.88	
33 42 11 00-1499	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	292.34	
33 42 11 00-1500	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	331.75	
33 42 11 00-1501	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	435.01	
33 42 11 00-1502	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	518.54	
33 42 11 00-1503	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	603.21	
33 42 11 00-1504	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	783.01	
33 42 11 00-1505	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	881.61	
33 42 11 00-1506	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	983.69	
33 42 11 00-1507	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,088.10	
33 42 11 00-1508	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,327.06	
33 42 11 00-1509	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,445.40	
33 42 11 00-1510	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,566.03	
33 42 11 00-1511	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,926.78	
33 42 11 00-1512	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,064.84	
33 42 11 00-1513	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,202.88	
33 42 11 00-1514	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,342.08	
33 42 11 00-1515	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,481.29	
33 42 11 00-1516	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,619.31	
33 42 11 00-1517	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	2,765.04	
33 42 11 00-1518	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	2,918.85	



	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1519	EA		Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,081.22	
<b>33 42 11 00-1520</b>			<b>Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting</b> (33 42 11 00-1463)		
			Note: Applied to pipe tasks.		
33 42 11 00-1521	EA		Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting	36.92	
33 42 11 00-1522	EA		Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting	46.45	
33 42 11 00-1523	EA		Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting	58.42	
33 42 11 00-1524	EA		Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting	71.53	
33 42 11 00-1525	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	90.51	
33 42 11 00-1526	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	110.84	
33 42 11 00-1527	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	129.83	
33 42 11 00-1528	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	150.84	
33 42 11 00-1529	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	185.27	
33 42 11 00-1530	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	220.89	
33 42 11 00-1531	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	263.56	
33 42 11 00-1532	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	324.21	
33 42 11 00-1533	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	366.97	
33 42 11 00-1534	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	413.27	
33 42 11 00-1535	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	501.17	
33 42 11 00-1536	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	555.78	
33 42 11 00-1537	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	678.10	
33 42 11 00-1538	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	738.69	
33 42 11 00-1539	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	802.85	
33 42 11 00-1540	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	865.74	
33 42 11 00-1541	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	929.88	
33 42 11 00-1542	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	995.19	
33 42 11 00-1543	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,059.34	
33 42 11 00-1544	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,123.45	
33 42 11 00-1545	EA		Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,191.45	
33 42 11 00-1546	EA		Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,263.55	
33 42 11 00-1547	EA		Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,340.03	
<b>33 42 11 00-1548</b>			<b>Coupling Bands, Corrugated Metal Pipe Fitting</b> (33 42 11 00-1463)		
33 42 11 00-1549	EA		6" Coupling Band, Corrugated Metal Pipe Fitting	9.86	
			<i>For Bituminous Coated, Add</i>	2.86	
33 42 11 00-1550	EA		8" Coupling Band, Corrugated Metal Pipe Fitting	13.09	
			<i>For Bituminous Coated, Add</i>	3.80	
33 42 11 00-1551	EA		10" Coupling Band, Corrugated Metal Pipe Fitting	16.49	
			<i>For Bituminous Coated, Add</i>	4.78	
33 42 11 00-1552	EA		12" Coupling Band, Corrugated Metal Pipe Fitting	27.38	
			<i>For Bituminous Coated, Add</i>	7.94	
33 42 11 00-1553	EA		15" Coupling Band, Corrugated Metal Pipe Fitting	34.52	
			<i>For Bituminous Coated, Add</i>	10.01	
33 42 11 00-1554	EA		18" Coupling Band, Corrugated Metal Pipe Fitting	50.65	
			<i>For Bituminous Coated, Add</i>	14.69	
33 42 11 00-1555	EA		21" Coupling Band, Corrugated Metal Pipe Fitting	60.11	
			<i>For Bituminous Coated, Add</i>	17.43	
33 42 11 00-1556	EA		24" Coupling Band, Corrugated Metal Pipe Fitting	68.16	
			<i>For Bituminous Coated, Add</i>	19.77	
33 42 11 00-1557	EA		30" Coupling Band, Corrugated Metal Pipe Fitting	117.96	
			<i>For Bituminous Coated, Add</i>	34.21	
33 42 11 00-1558	EA		36" Coupling Band, Corrugated Metal Pipe Fitting	188.72	
			<i>For Bituminous Coated, Add</i>	45.29	
33 42 11 00-1559	EA		42" Coupling Band, Corrugated Metal Pipe Fitting	221.74	
			<i>For Bituminous Coated, Add</i>	53.22	
33 42 11 00-1560	EA		48" Coupling Band, Corrugated Metal Pipe Fitting	248.47	
			<i>For Bituminous Coated, Add</i>	59.63	
33 42 11 00-1561	EA		54" Coupling Band, Corrugated Metal Pipe Fitting	352.36	
			<i>For Bituminous Coated, Add</i>	84.57	
33 42 11 00-1562	EA		60" Coupling Band, Corrugated Metal Pipe Fitting	503.99	
			<i>For Bituminous Coated, Add</i>	90.72	
33 42 11 00-1563	EA		66" Coupling Band, Corrugated Metal Pipe Fitting	619.39	
			<i>For Bituminous Coated, Add</i>	111.49	
33 42 11 00-1564	EA		72" Coupling Band, Corrugated Metal Pipe Fitting	795.65	
			<i>For Bituminous Coated, Add</i>	111.39	
33 42 11 00-1565	EA		78" Coupling Band, Corrugated Metal Pipe Fitting	851.00	
			<i>For Bituminous Coated, Add</i>	119.14	
33 42 11 00-1566	EA		84" Coupling Band, Corrugated Metal Pipe Fitting	906.66	
			<i>For Bituminous Coated, Add</i>	126.93	
33 42 11 00-1567	EA		90" Coupling Band, Corrugated Metal Pipe Fitting	962.04	
			<i>For Bituminous Coated, Add</i>	134.69	
33 42 11 00-1568	EA		96" Coupling Band, Corrugated Metal Pipe Fitting	1,017.56	
			<i>For Bituminous Coated, Add</i>	142.46	
33 42 11 00-1569	EA		102" Coupling Band, Corrugated Metal Pipe Fitting	1,073.22	
			<i>For Bituminous Coated, Add</i>	150.25	
33 42 11 00-1570	EA		108" Coupling Band, Corrugated Metal Pipe Fitting	1,128.62	
			<i>For Bituminous Coated, Add</i>	158.01	
33 42 11 00-1571	EA		114" Coupling Band, Corrugated Metal Pipe Fitting	1,336.73	
			<i>For Bituminous Coated, Add</i>	160.41	
33 42 11 00-1572	EA		120" Coupling Band, Corrugated Metal Pipe Fitting	1,239.35	
			<i>For Bituminous Coated, Add</i>	148.72	



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 42 11 00-1573	EA	126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,294.59	
		<i>For Bituminous Coated, Add</i>	155.35	
33 42 11 00-1574	EA	132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,350.22	
		<i>For Bituminous Coated, Add</i>	162.03	
33 42 11 00-1575	EA	138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,405.91	
		<i>For Bituminous Coated, Add</i>	168.71	

**33 42 13 Stormwater Culverts (33 42)****33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0843 for crane lifting equipment.

33 42 13 13-0002	LF	3' x 3' Precast Reinforced Concrete Box Culvert.....	516.50	42.81
		<i>For Each LF Of Cut-Off Section, Add</i>	20.66	
33 42 13 13-0003	LF	4' x 2' Precast Reinforced Concrete Box Culvert.....	588.75	42.81
		<i>For Each LF Of Cut-Off Section, Add</i>	23.55	
33 42 13 13-0004	LF	4' x 3' Precast Reinforced Concrete Box Culvert.....	705.47	42.81
		<i>For Each LF Of Cut-Off Section, Add</i>	28.22	
33 42 13 13-0005	LF	5' x 3' Precast Reinforced Concrete Box Culvert.....	844.32	53.52
		<i>For Each LF Of Cut-Off Section, Add</i>	33.77	
33 42 13 13-0006	LF	5' x 4' Precast Reinforced Concrete Box Culvert.....	866.55	53.52
		<i>For Each LF Of Cut-Off Section, Add</i>	34.66	
33 42 13 13-0007	LF	5' x 5' Precast Reinforced Concrete Box Culvert.....	877.66	53.52
		<i>For Each LF Of Cut-Off Section, Add</i>	35.11	
33 42 13 13-0008	LF	6' x 3' Precast Reinforced Concrete Box Culvert.....	904.33	55.66
		<i>For Each LF Of Cut-Off Section, Add</i>	36.17	
33 42 13 13-0009	LF	6' x 4' Precast Reinforced Concrete Box Culvert.....	909.88	55.66
		<i>For Each LF Of Cut-Off Section, Add</i>	36.40	
33 42 13 13-0010	LF	6' x 6' Precast Reinforced Concrete Box Culvert.....	1,009.93	55.66
		<i>For Each LF Of Cut-Off Section, Add</i>	40.40	
33 42 13 13-0011	LF	7' x 4' Precast Reinforced Concrete Box Culvert.....	1,027.63	64.21
		<i>For Each LF Of Cut-Off Section, Add</i>	41.11	
33 42 13 13-0012	LF	7' x 6' Precast Reinforced Concrete Box Culvert.....	1,075.44	87.33
		<i>For Each LF Of Cut-Off Section, Add</i>	43.02	
33 42 13 13-0013	LF	8' x 2' Precast Reinforced Concrete Box Culvert.....	1,015.49	55.66
		<i>For Each LF Of Cut-Off Section, Add</i>	40.62	
33 42 13 13-0014	LF	8' x 3' Precast Reinforced Concrete Box Culvert.....	1,033.19	64.21
		<i>For Each LF Of Cut-Off Section, Add</i>	41.33	
33 42 13 13-0015	LF	8' x 4' Precast Reinforced Concrete Box Culvert.....	1,049.86	64.21
		<i>For Each LF Of Cut-Off Section, Add</i>	41.99	
33 42 13 13-0016	LF	8' x 5' Precast Reinforced Concrete Box Culvert.....	1,256.42	85.62
		<i>For Each LF Of Cut-Off Section, Add</i>	50.26	
33 42 13 13-0017	LF	8' x 6' Precast Reinforced Concrete Box Culvert.....	1,260.87	85.62
		<i>For Each LF Of Cut-Off Section, Add</i>	50.43	
33 42 13 13-0018	LF	8' x 8' Precast Reinforced Concrete Box Culvert.....	1,379.61	107.02
		<i>For Each LF Of Cut-Off Section, Add</i>	55.18	
33 42 13 13-0019	LF	9' x 4' Precast Reinforced Concrete Box Culvert.....	1,399.82	85.62
		<i>For Each LF Of Cut-Off Section, Add</i>	55.99	
33 42 13 13-0020	LF	9' x 6' Precast Reinforced Concrete Box Culvert.....	1,460.75	107.02
		<i>For Each LF Of Cut-Off Section, Add</i>	58.43	
33 42 13 13-0021	LF	10' x 3' Precast Reinforced Concrete Box Culvert.....	1,466.31	107.02
		<i>For Each LF Of Cut-Off Section, Add</i>	58.65	
33 42 13 13-0022	LF	10' x 4' Precast Reinforced Concrete Box Culvert.....	1,810.91	107.02
		<i>For Each LF Of Cut-Off Section, Add</i>	72.44	
33 42 13 13-0023	LF	10' x 5' Precast Reinforced Concrete Box Culvert.....	1,877.40	128.43
		<i>For Each LF Of Cut-Off Section, Add</i>	75.10	
33 42 13 13-0024	LF	10' x 6' Precast Reinforced Concrete Box Culvert.....	1,899.63	128.43
		<i>For Each LF Of Cut-Off Section, Add</i>	75.99	
33 42 13 13-0025	LF	10' x 7' Precast Reinforced Concrete Box Culvert.....	1,905.19	128.43
		<i>For Each LF Of Cut-Off Section, Add</i>	76.21	
33 42 13 13-0026	LF	10' x 8' Precast Reinforced Concrete Box Culvert.....	1,912.97	128.43
		<i>For Each LF Of Cut-Off Section, Add</i>	76.52	
33 42 13 13-0027	LF	12' x 3' Precast Reinforced Concrete Box Culvert.....	1,966.13	149.84
		<i>For Each LF Of Cut-Off Section, Add</i>	78.65	
33 42 13 13-0028	LF	12' x 4' Precast Reinforced Concrete Box Culvert.....	1,966.13	149.84
		<i>For Each LF Of Cut-Off Section, Add</i>	78.65	
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert.....	1,966.13	149.84
		<i>For Each LF Of Cut-Off Section, Add</i>	78.65	
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert.....	1,966.13	149.84
		<i>For Each LF Of Cut-Off Section, Add</i>	78.65	
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert.....	2,921.91	171.25
		<i>For Each LF Of Cut-Off Section, Add</i>	116.88	
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert.....	4,144.67	171.25
		<i>For Each LF Of Cut-Off Section, Add</i>	165.79	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 42 13 13-0033**

**Precast Reinforced Concrete Box Culvert For Roadways <sup>(33 42 13 13)</sup>**

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0843 for crane lifting equipment.

33 42 13 13-0034	LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	1,367.43	42.81
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>54.70</i>	
33 42 13 13-0035	LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways .....	1,474.19	42.81
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>58.97</i>	
33 42 13 13-0036	LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	1,663.16	42.81
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>66.53</i>	
33 42 13 13-0037	LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	1,874.20	53.52
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>74.97</i>	
33 42 13 13-0038	LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	2,063.16	53.52
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>82.53</i>	
33 42 13 13-0039	LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways .....	2,252.12	53.52
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>90.08</i>	
33 42 13 13-0040	LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	2,067.59	55.66
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>82.70</i>	
33 42 13 13-0041	LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	2,256.55	55.66
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>90.26</i>	
33 42 13 13-0042	LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	2,634.48	55.66
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>105.38</i>	
33 42 13 13-0043	LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	2,463.21	64.21
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>98.53</i>	
33 42 13 13-0044	LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	2,888.90	87.33
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>115.56</i>	
33 42 13 13-0045	LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways .....	2,256.55	55.66
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>90.26</i>	
33 42 13 13-0046	LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	2,463.21	64.21
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>98.53</i>	
33 42 13 13-0047	LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	2,652.18	64.21
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>106.09</i>	
33 42 13 13-0048	LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	2,885.36	85.62
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>115.41</i>	
33 42 13 13-0049	LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	3,074.32	85.62
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>122.97</i>	
33 42 13 13-0050	LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....	3,496.50	107.02
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>139.86</i>	
33 42 13 13-0051	LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	3,105.25	85.62
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>124.21</i>	
33 42 13 13-0052	LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	3,553.37	107.02
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>142.13</i>	
33 42 13 13-0053	LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	3,512.26	107.02
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>140.49</i>	
33 42 13 13-0054	LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	3,736.63	107.02
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>149.47</i>	
33 42 13 13-0055	LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways .....	4,005.26	128.43
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>160.21</i>	
33 42 13 13-0056	LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	4,229.63	128.43
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>169.19</i>	
33 42 13 13-0057	LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways .....	4,454.04	128.43
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>178.16</i>	
33 42 13 13-0058	LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....	4,678.42	128.43
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>187.14</i>	
33 42 13 13-0059	LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....	4,646.33	149.84
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>185.85</i>	
33 42 13 13-0060	LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....	4,901.38	149.84
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>196.06</i>	
33 42 13 13-0061	LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....	5,411.56	149.84
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>216.46</i>	
33 42 13 13-0062	LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....	5,921.74	149.84
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>236.87</i>	
33 42 13 13-0063	LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways .....	7,099.72	171.25
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>283.99</i>	
33 42 13 13-0064	LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways .....	9,027.04	171.25
	<i>For Each LF Of Cut-Off Section, Add</i>	<i>361.08</i>	

**33 42 23 Headwalls and Endwalls for Stormwater Piping <sup>(33 42)</sup>**

**33 42 23 00-0001**

**Headwalls <sup>(33 42 23)</sup>**

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

**33 42 23 00-0002**

**Cast In Place Concrete Headwalls <sup>(33 42 23 00-0001)</sup>**

Note: Includes concrete, forms, rebar (where required), finish and curing.

**33 42 23 00-0003**

**Skewed Wingwall, Cast In Place Concrete Headwall <sup>(33 42 23 00-0002)</sup>**

Note: Sized by pipe diameter.

33 42 23 00-0004	EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	1,163.45	570.31
33 42 23 00-0005	EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	1,469.40	608.33
33 42 23 00-0006	EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	1,912.02	796.83
33 42 23 00-0007	EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	2,958.87	1,140.62
33 42 23 00-0008	EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	4,098.38	1,520.83
33 42 23 00-0009	EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	5,127.61	2,004.62

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	7,127.84	2,765.12
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	8,468.44	3,258.88
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	10,196.03	3,967.42
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	12,257.65	4,802.61
<b>33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)</b>		
33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall .....	580.25	146.09
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall .....	604.61	154.21
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall .....	667.27	175.31
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall .....	734.46	186.67
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall .....	960.33	219.14
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall .....	1,085.65	227.26
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall .....	1,401.35	264.23
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall .....	1,541.05	291.11
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall .....	1,695.66	308.24
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall .....	1,914.72	308.24
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall .....	2,284.36	385.29
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall .....	3,186.79	462.35
<b>33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)</b>		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall .....	3,691.97	1,525.77
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall .....	3,948.83	1,695.30
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall .....	4,376.94	1,977.85
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall .....	4,805.05	2,260.41
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall .....	4,805.05	2,260.41
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall .....	4,976.28	2,373.43
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall .....	7,793.57	2,429.94
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall .....	8,050.44	2,599.47
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
<b>33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)</b>		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate .....	3,097.83	599.35
<b>33 42 26 End Sections for Stormwater Piping (33 42)</b>		
<b>33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)</b>		
<b>33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)</b>		
<b>33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)</b>		
<b>33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	213.56	56.81
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	246.72	60.87
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	286.70	64.93
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	345.52	71.02
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	382.41	77.10
<b>33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	608.40	87.25
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	786.38	102.75
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,198.09	119.87
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,461.68	136.99
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,742.87	171.25
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	2,036.52	205.49
<b>33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	222.49	56.81
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	255.91	60.87
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	300.81	64.93
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	362.47	71.02
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	401.63	77.10
33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	667.41	87.25
33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	858.55	102.75
33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	1,358.08	119.87
33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....	1,668.14	136.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,951.65	171.25
33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,697.80	205.49
33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,077.57	308.24
33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,611.96	410.98
33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,932.98	440.95
33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,261.65	470.92
<b>33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section</b> <small>(33 42 26 16-0002)</small>		
33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section.....	27.39	
33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section.....	30.45	
33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section.....	34.17	
33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section.....	37.14	
33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section.....	41.54	
33 42 26 16-0038 EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section.....	71.98	
33 42 26 16-0039 EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section.....	77.45	
33 42 26 16-0040 EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section.....	105.52	
33 42 26 16-0041 EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section.....	113.08	
33 42 26 16-0042 EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section.....	137.90	
33 42 26 16-0043 EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section.....	141.46	
33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section.....	151.45	
33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section.....	173.65	
33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section.....	194.11	
33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	199.18	
<b>33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0001)</small>		
<b>33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0048)</small>		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	246.72	60.87
33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	286.70	64.93
33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	345.52	71.02
33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	382.41	77.10
<b>33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0048)</small>		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	239.02	60.87
33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	272.44	64.93
33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	304.71	71.02
33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	343.44	77.10
33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	497.30	87.25
33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	718.52	102.75
33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,110.26	119.87
33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,403.15	136.99
<b>33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0048)</small>		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	242.93	60.87
33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	280.95	64.93
33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	318.00	71.02
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	359.20	77.10
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	524.09	87.25
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	755.05	102.75
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,168.70	119.87
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,470.41	136.99
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,770.50	171.25
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	2,323.43	205.49
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	3,247.26	308.24
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	3,609.70	410.98
<b>33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section</b> <small>(33 42 26 16-0048)</small>		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section.....	30.45	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section.....	34.17	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section.....	37.14	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section.....	41.54	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section.....	71.98	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section.....	77.45	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section.....	105.52	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section.....	117.50	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section.....	137.90	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section.....	143.21	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section.....	165.79	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section.....	189.43	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0089			Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090			Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091	EA		12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	317.33	56.81
33 42 26 16-0092	EA		15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	364.87	60.87
33 42 26 16-0093	EA		18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	431.29	64.93
33 42 26 16-0094	EA		21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	532.97	71.02
33 42 26 16-0095	EA		24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	693.29	77.10
33 42 26 16-0096	EA		30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	1,034.56	87.25
33 42 26 16-0097	EA		36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	1,401.96	102.75
33 42 26 16-0098	EA		36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	1,741.46	102.75
33 42 26 16-0099	EA		42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	2,219.48	119.87
33 42 26 16-0100	EA		48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	3,162.80	136.99
33 42 26 16-0101	EA		54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	3,506.25	171.25
33 42 26 16-0102	EA		60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	4,722.12	205.49
33 42 26 16-0103	EA		66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	5,359.74	308.24
33 42 26 16-0104	EA		72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	6,276.37	410.98
33 42 26 16-0105	EA		78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	6,853.68	440.95
33 42 26 16-0106	EA		84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	7,232.72	470.92
33 42 26 16-0107	EA		90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	9,875.70	513.73
33 42 26 16-0108	EA		96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	10,930.99	556.54
33 42 26 16-0109			Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110	EA		Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	49.66	
33 42 26 16-0111	EA		Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	52.63	
33 42 26 16-0112	EA		Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	57.03	
33 42 26 16-0113	EA		Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	64.16	
33 42 26 16-0114	EA		Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	68.09	
33 42 26 16-0115	EA		Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	88.27	
33 42 26 16-0116	EA		Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	105.43	
33 42 26 16-0117	EA		Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	111.10	
33 42 26 16-0118	EA		Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	121.84	
33 42 26 16-0119	EA		Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	137.72	
33 42 26 16-0120	EA		Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	162.72	
33 42 26 16-0121	EA		Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	226.39	
33 42 26 16-0122	EA		Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	244.44	
33 42 26 16-0123	EA		Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	310.99	
33 42 26 16-0124	EA		Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	336.69	
33 42 26 16-0125	EA		Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	358.81	
33 42 26 16-0126	EA		Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	382.03	
33 42 26 16-0127	EA		Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	405.56	
33 42 26 16-0128			Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129			Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130	EA		17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	375.85	60.87
33 42 26 16-0131	EA		21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	458.04	64.93
33 42 26 16-0132	EA		24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	497.49	71.02
33 42 26 16-0133	EA		28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	536.92	77.10
33 42 26 16-0134	EA		35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	800.00	87.25
33 42 26 16-0135	EA		42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	1,417.56	102.75
33 42 26 16-0136	EA		42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	1,503.64	102.75
33 42 26 16-0137	EA		49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	2,007.18	119.87
33 42 26 16-0138	EA		57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	3,080.12	136.99
33 42 26 16-0139	EA		64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	3,528.70	171.25
33 42 26 16-0140	EA		71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	4,266.28	205.49
33 42 26 16-0141	EA		77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	7,141.55	308.24
33 42 26 16-0142	EA		83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	7,508.65	410.98
33 42 26 16-0143	EA		87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	8,174.63	440.95
33 42 26 16-0144	EA		95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	8,533.84	470.92
33 42 26 16-0145	EA		103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	9,302.02	513.73
33 42 26 16-0146	EA		112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	9,856.20	556.54
33 42 26 16-0147			Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148	EA		Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	52.63	
33 42 26 16-0149	EA		Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	57.03	
33 42 26 16-0150	EA		Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	60.19	
33 42 26 16-0151	EA		Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	65.91	
33 42 26 16-0152	EA		Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	75.80	
33 42 26 16-0153	EA		Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	98.26	
33 42 26 16-0154	EA		Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	107.30	
33 42 26 16-0155	EA		Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	121.84	
33 42 26 16-0156	EA		Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	137.72	
33 42 26 16-0157	EA		Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	162.72	
33 42 26 16-0158	EA		Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	206.28	
33 42 26 16-0159	EA		Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	261.28	
33 42 26 16-0160	EA		Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	353.08	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	400.76	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	419.92	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	435.65	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	454.81	
<b>33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)</b>		
<b>33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)</b>		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	481.23	60.87
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	617.81	64.93
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	755.24	71.02
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	902.38	77.10
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	955.52	87.25
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,245.96	102.75
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,964.77	119.87
<b>33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)</b>		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section.....	341.14	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section.....	680.03	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section.....	746.24	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section.....	776.04	
<b>33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)</b>		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	503.53	60.87
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	657.90	64.93
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	873.24	71.02
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,025.02	77.10
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,215.86	87.25
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,475.75	102.75
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	2,252.28	119.87
<b>33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)</b>		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	661.36	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	702.35	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	772.62	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	812.57	
<b>33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)</b>		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	58.54	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	65.60	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	71.40	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	79.68	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	119.55	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	128.31	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	171.83	
<b>33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)</b>		
<b>33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)</b>		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	570.85	64.93
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	714.79	71.02
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	845.09	77.10
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,584.50	87.25
<b>33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)</b>		
Note: Includes nut and bolt set.		
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	405.93	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	736.42	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	776.04	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,140.48	
<b>33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)</b>		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	59.20	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	67.11	



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	73.15	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	87.39	

**33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping** (33 42 26)

**33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections** (33 42 26 19)

33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	48.79	16.71
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	90.10	25.06
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	121.98	31.33
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	192.21	50.13
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	227.86	56.40
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	241.96	60.57
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	287.57	66.84
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	370.63	79.37
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	754.70	89.81
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	919.37	100.26

**33 42 26 23 Concrete End Sections for Stormwater Piping** (33 42 26)

**33 42 26 23-0001 Precast Concrete End Sections** (33 42 26 23)

**33 42 26 23-0002 Precast Concrete End Sections** (33 42 26 23-0001)

33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	464.47	95.21
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	619.90	117.84
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	768.74	149.17
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	884.81	178.40
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	946.55	206.47
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,193.64	255.15
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	1,493.25	383.24
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	1,847.39	483.59
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	2,242.71	606.62
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	2,464.82	684.11
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	2,695.54	766.31
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	2,932.40	851.93
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	2,875.81	691.90
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	3,320.23	864.86
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	3,966.91	1,081.08
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	4,700.51	1,297.29

**33 42 26 23-0019 Flared Precast Concrete End Sections** (33 42 26 23-0001)

33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	575.74	99.75
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	694.54	124.32
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	845.50	157.37
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	969.08	188.19
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,178.32	217.82
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	1,451.21	347.88
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	1,551.38	478.96
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	2,080.92	604.48
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	2,508.78	758.43
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	2,726.94	855.36
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	3,050.58	958.02
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	3,381.00	1,064.10
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	3,937.99	1,226.01
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	4,571.37	1,368.40
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	5,179.39	1,539.38
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	5,951.45	1,710.20

**33 42 31 Stormwater Area Drains and Inlets** (33 42)

**33 42 31 00-0001 Storm Drains** (33 42 31)

See CSI section 33 05 61 00-0001 for manhole structures.

**33 42 31 00-0002 Catch Basins And Inlet Basins** (33 42 31 00-0001)

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

**33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins** (33 42 31 00-0002)

Note: Inside dimensions.

**33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins** (33 42 31 00-0003)

33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,537.74	280.50
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,838.24	328.67
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,138.73	376.75
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,439.24	424.91
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,739.74	472.98

**33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins** (33 42 31 00-0003)

33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,995.43	278.82
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	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,464.84	371.76
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,139.55	506.94
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,829.79	591.44
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,366.41	675.92
<b>33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)</b>		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,145.89	304.17
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,973.52	422.45
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,624.43	549.19
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,185.19	633.68
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	5,306.49	811.11
<b>33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)</b>		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
<b>33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0002)</b>		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	1,882.23	339.14
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	1,996.05	360.60
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,179.47	387.31
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	2,456.22	428.70
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	2,648.23	456.33
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	2,773.11	478.56
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	2,965.29	506.19
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,087.35	528.49
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,280.68	556.03
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,404.41	578.33
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,596.51	605.97
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	449.59	75.70
<b>33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,166.03	392.03
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,310.06	419.58
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,501.41	447.21
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	2,824.75	495.28
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,036.01	526.54
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,179.98	552.49
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,393.90	583.74
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,537.87	609.68
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,750.19	640.95
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,894.60	666.88
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,107.00	698.14
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	513.40	87.28
<b>33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,469.74	448.48
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,621.69	476.95
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,842.08	510.66
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,212.55	565.49
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,445.63	600.39
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,610.18	630.04
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,843.26	664.95
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,007.39	694.60
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,240.47	729.49
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,405.01	759.15
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,638.10	794.12
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	579.73	99.27
<b>33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,850.65	520.04
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,027.60	549.44
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,271.50	587.46
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,694.05	649.82
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,952.73	689.19
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,142.97	723.24
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,402.06	762.61
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,592.31	796.75
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,850.98	836.12
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,040.05	870.16
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,300.32	909.54
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	662.58	113.72
<b>33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin.....	3,663.13	659.61
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,133.71	728.90

<b>33</b>	<b>Utilities</b>
<b>33 40</b>	<b>Stormwater Utilities</b>
<b>33 42</b>	<b>Stormwater Conveyance</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,414.55	772.07
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,625.79	809.92
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,903.89	853.01
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,116.29	890.87
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,395.96	934.04
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,605.62	971.89
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,886.46	1,014.98
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,025.68	126.91
<b>33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	4,073.48	735.58
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,739.03	832.66
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,049.58	880.64
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,290.54	923.65
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,602.69	971.98
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,844.79	1,014.98
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,155.36	1,063.31
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,396.31	1,106.32
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,706.87	1,154.65
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	838.35	144.31
<b>33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin.....	4,505.67	815.08
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,238.95	921.62
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,572.19	973.84
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,835.39	1,020.73
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,167.45	1,072.95
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,432.23	1,119.84
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,763.87	1,172.05
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,027.51	1,218.95
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,360.73	1,271.16
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	920.14	158.93
<b>33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	4,956.94	898.39
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,944.37	1,040.84
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,310.09	1,098.63
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,607.26	1,151.10
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,972.98	1,208.81
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,270.15	1,261.36
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,635.86	1,319.07
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,933.04	1,371.54
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,300.34	1,429.33
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,037.50	178.70
<b>33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin.....	5,428.59	985.33
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,508.91	1,140.79
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,897.81	1,202.64
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,216.65	1,259.08
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,606.62	1,320.84
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,925.47	1,377.36
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,314.35	1,439.13
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,634.37	1,495.66
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,023.17	1,557.41
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,127.94	194.67
<b>33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	6,131.00	1,105.89
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,096.71	1,244.80
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,507.19	1,310.62
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,850.37	1,371.11
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,261.93	1,436.93
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,605.13	1,497.42
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,015.59	1,563.25
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,358.79	1,623.74
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,770.43	1,689.56
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,221.26	211.23
<b>33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin.....	6,663.33	1,203.23
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,706.00	1,352.86
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,139.31	1,422.65
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,505.68	1,487.20



	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,938.91	1,556.99
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,302.95	1,621.54
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,738.50	1,691.33
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,104.87	1,755.89
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,530.60	1,825.67
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,317.27	228.21
<b>33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)</b>		
Note: Inside dimensions.		
<b>33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....	592.15	174.72
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....	819.39	262.08
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,034.73	340.71
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,241.21	402.74
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,524.82	511.07
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....	1,743.12	589.70
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	121.06	39.31
<b>33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....	675.84	194.39
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....	930.00	288.30
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....	1,169.92	380.03
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....	1,399.16	443.37
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....	1,728.69	567.86
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....	1,973.72	655.22
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....	137.08	47.18
<b>33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....	899.25	229.32
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....	1,220.56	338.97
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....	1,527.59	447.74
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....	1,902.57	559.13
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin.....	2,245.27	666.58
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin.....	2,575.05	775.78
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin.....	176.61	55.41
<b>33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin.....	1,093.65	255.10
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin.....	1,417.76	349.46
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin.....	1,883.91	524.18
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin.....	2,350.73	655.22
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin.....	2,775.86	786.26
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin.....	3,186.20	917.31
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin.....	217.97	65.52
<b>33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin.....	1,470.76	349.46
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin.....	2,001.68	524.18
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin.....	2,535.19	698.90
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin.....	3,096.30	873.63
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin.....	3,648.23	1,048.36
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin.....	4,243.72	1,223.08
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin.....	289.97	87.36
<b>33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin.....	2,148.90	524.18
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin.....	2,893.64	786.26
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin.....	3,693.14	1,048.36
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin.....	4,601.70	1,310.44
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin.....	5,480.82	1,572.54
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin.....	6,337.32	1,834.62
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin.....	432.04	131.04
<b>33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)</b>		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,230.36	567.86
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	615.16	69.89
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	336.50	74.26
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	415.68	109.20
For Each Additional Inch In Height, Add	51.07	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	489.75	131.04
For Each Additional Inch In Height, Add	59.77	



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring ..... <i>For Each Additional Inch In Height, Add</i>	571.30 69.77	152.88
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring ..... <i>For Each Additional Inch In Height, Add</i>	708.12 81.66	218.40
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	524.15	
<b>33 42 31 00-0210 Catch Basin Risers</b> (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser.....	272.72	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	301.20	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	334.97	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	293.16	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	323.57	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	360.97	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	322.78	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	349.90	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	387.47	
<b>33 42 31 00-0220 Cast In Place, Storm Drain Cleanout</b> (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	3,961.37	668.99
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,512.96	763.46
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,126.38	866.45
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,154.43	1,039.40
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	7,460.62	1,254.86
<b>33 42 31 00-0226 Precast Concrete Inlet Boxes</b> (33 42 31 00-0002)		
Note: Inside dimensions.		
<b>33 42 31 00-0227 Precast Concrete Inlet Boxes</b> (33 42 31 00-0226)		
<b>33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0227)		
Note: Yard inlet.		
<b>33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	620.20	61.16
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	729.39	74.26
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	838.57	87.36
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	948.86	101.01
<b>33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers</b> (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	157.24	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	253.32	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	358.14	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	462.96	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	567.79	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	672.61	
<b>33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0227)		
<b>33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,275.54	171.25
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,435.40	197.99
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,595.26	224.75
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,755.23	251.58
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,915.22	278.40
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,075.20	305.22
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,235.17	332.04
<b>33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers</b> (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	308.01	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	493.71	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	537.42	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	687.44	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	837.47	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	980.52	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,140.38	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,300.24	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,460.22	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,620.21	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,780.19	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,940.16	
<b>33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0227)		
<b>33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes</b> (33 42 31 00-0263)		





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,232.11	188.37
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,392.47	217.80
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,552.84	247.23
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,713.34	276.74
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,873.85	306.24
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,034.36	335.74
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,194.86	365.24
<b>33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)</b>		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	305.51	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	484.29	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	528.84	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	675.71	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	822.60	
33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	968.62	
33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,126.63	
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,283.79	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,441.80	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,598.96	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,756.97	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,914.98	
<b>33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)</b>		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,463.79	205.49
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,652.07	238.88
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,840.36	273.13
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,027.79	306.52
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,216.07	340.78
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,404.35	374.17
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,591.78	407.56
<b>33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)</b>		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	336.79	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	545.15	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	590.97	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	757.42	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	923.86	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,090.31	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,268.33	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,446.33	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,624.33	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,802.33	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,980.36	
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,158.36	
<b>33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)</b>		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	831.42	128.43
<b>33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)</b>		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,071.34	228.33
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,322.31	265.86
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,573.30	303.38
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,824.00	340.78
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,074.70	378.17
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,325.41	415.56
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,576.11	452.96
<b>33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)</b>		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	338.60	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	537.36	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	784.62	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,031.89	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,264.89	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,512.17	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,763.14	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,014.13	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,264.83	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,515.53	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,766.24	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,016.93	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)</b>		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab .....	903.59	139.13
<b>33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)</b>		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	2,389.97	287.69
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	2,666.52	335.75
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	2,943.06	383.82
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	3,219.08	431.62
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	3,495.09	479.42
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	3,771.11	527.22
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box .....	4,047.12	575.02
<b>33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)</b>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	372.20	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	576.60	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	852.90	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	1,129.21	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	1,381.54	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	1,657.85	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	1,934.39	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	2,210.93	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	2,486.95	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	2,762.97	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	3,038.98	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser .....	3,314.99	
<b>33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)</b>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab .....	1,004.67	155.83
<b>33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)</b>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	2,995.68	387.87
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	3,345.87	452.08
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	3,696.04	515.44
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	4,045.35	579.66
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	4,395.54	643.02
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	4,744.85	706.38
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box .....	5,095.89	770.59
<b>33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)</b>		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	499.15	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	760.29	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	1,104.47	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	1,448.65	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	1,768.00	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	2,112.18	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	2,462.37	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	2,812.54	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	3,161.85	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	3,512.04	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	3,861.35	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	4,211.52	
<b>33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)</b>		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab .....	1,366.64	171.25
<b>33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)</b>		
<b>33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)</b>		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate .....	259.45	40.58
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT) .....	330.66	40.58
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT) .....	330.66	40.58
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT) .....	330.66	40.58
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362) .....	360.37	40.58
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK) .....	293.02	81.16



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>33</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
33 42 31	00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	334.61	81.16	
33 42 31	00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) ..... Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	416.76	101.46	
33 42 31	00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	363.29	101.46	
33 42 31	00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	369.24	101.46	
33 42 31	00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	381.12	101.46	
33 42 31	00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	393.00	101.46	
33 42 31	00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	381.12	101.46	
33 42 31	00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	393.00	101.46	
33 42 31	00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	404.88	101.46	
33 42 31	00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	559.33	101.46	
33 42 31	00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	583.10	101.46	
33 42 31	00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	606.86	101.46	
33 42 31	00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	428.64	101.46	
33 42 31	00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	393.00	101.46	
33 42 31	00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	393.00	101.46	
33 42 31	00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	749.35	101.46	
33 42 31	00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	749.35	101.46	
33 42 31	00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	342.01	111.59	
33 42 31	00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	454.88	111.59	
33 42 31	00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	454.88	111.59	
33 42 31	00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	496.47	111.59	
33 42 31	00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM).....	561.81	111.59	
33 42 31	00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM).....	490.52	111.59	
33 42 31	00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202).....	674.68	111.59	
33 42 31	00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002).....	603.40	111.59	
33 42 31	00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340).....	788.00	162.33	
33 42 31	00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,215.72	162.33	
33 42 31	00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340).....	770.18	162.33	
33 42 31	00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,159.88	162.33	
33 42 31	00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,277.06	243.49	
33 42 31	00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,348.25	324.64	
33 42 31	00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	1,463.16	324.64	
33 42 31	00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	1,463.16	324.64	
33 42 31	00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,314.64	324.64	
33 42 31	00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,314.64	324.64	
33 42 31	00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	1,510.68	324.64	
33 42 31	00-0425	<b>Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)</b>				
33 42 31	00-0426	<b>Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>				
33 42 31	00-0427	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,395.17		
33 42 31	00-0428	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,784.45		
33 42 31	00-0429	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,146.58		
33 42 31	00-0430	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,481.58		
33 42 31	00-0431	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,789.40		
33 42 31	00-0432	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,070.08		
33 42 31	00-0433	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	5,538.22		
33 42 31	00-0434	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,458.77		
33 42 31	00-0435	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,309.51		
33 42 31	00-0436	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,092.20		
33 42 31	00-0437	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,848.65		
33 42 31	00-0438	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,545.95		
33 42 31	00-0439	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,184.09		
33 42 31	00-0440	<b>Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>				
33 42 31	00-0441	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,261.51		
33 42 31	00-0442	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,625.96		
33 42 31	00-0443	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,963.28		
33 42 31	00-0444	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,273.43		
33 42 31	00-0445	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,555.56		
33 42 31	00-0446	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,811.42		
33 42 31	00-0447	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,235.94		
33 42 31	00-0448	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,135.24		
33 42 31	00-0449	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,964.72		
33 42 31	00-0450	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,725.28		
33 42 31	00-0451	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,463.50		
33 42 31	00-0452	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,142.58		
33 42 31	00-0453	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,762.49		
33 42 31	00-0454	<b>Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>				
33 42 31	00-0455	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,059.89		
33 42 31	00-0456	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,401.65		
33 42 31	00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,715.41		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0458 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,002.88	
33 42 31 00-0459 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,262.32	
33 42 31 00-0460 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,494.61	
33 42 31 00-0461 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	6,933.68	
33 42 31 00-0462 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,810.84	
33 42 31 00-0463 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,619.94	
33 42 31 00-0464 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,359.23	
33 42 31 00-0465 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,078.35	
33 42 31 00-0466 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,739.20	
33 42 31 00-0467 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,340.00	
<b>33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0469 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,198.02	
33 42 31 00-0470 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,506.42	
33 42 31 00-0471 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,787.68	
33 42 31 00-0472 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,041.78	
33 42 31 00-0473 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,268.73	
33 42 31 00-0474 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,468.53	
33 42 31 00-0475 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,922.13	
33 42 31 00-0476 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,769.10	
33 42 31 00-0477 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,547.14	
33 42 31 00-0478 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,256.25	
33 42 31 00-0479 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,950.35	
33 42 31 00-0480 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,584.41	
33 42 31 00-0481 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,159.31	
<b>33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0483 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,508.27	
33 42 31 00-0484 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,750.16	
33 42 31 00-0485 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,964.92	
33 42 31 00-0486 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,152.54	
33 42 31 00-0487 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,312.12	
33 42 31 00-0488 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,445.43	
33 42 31 00-0489 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,855.42	
33 42 31 00-0490 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,642.96	
33 42 31 00-0491 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,361.56	
33 42 31 00-0492 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,011.24	
33 42 31 00-0493 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,654.31	
33 42 31 00-0494 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,237.33	
33 42 31 00-0495 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,761.20	
<b>33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0497 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,957.97	
33 42 31 00-0498 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,360.41	
33 42 31 00-0499 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,731.76	
33 42 31 00-0500 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,072.00	
33 42 31 00-0501 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,382.01	
33 42 31 00-0502 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,661.78	
33 42 31 00-0503 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,209.86	
33 42 31 00-0504 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,211.56	
33 42 31 00-0505 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,135.77	
33 42 31 00-0506 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,981.61	
33 42 31 00-0507 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,804.07	
33 42 31 00-0508 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,559.99	
33 42 31 00-0509 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,248.51	
<b>33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0511 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,824.32	
33 42 31 00-0512 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,201.06	
33 42 31 00-0513 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,547.58	
33 42 31 00-0514 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,863.87	
33 42 31 00-0515 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,149.04	
33 42 31 00-0516 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,403.12	
33 42 31 00-0517 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,951.20	
33 42 31 00-0518 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,929.82	
33 42 31 00-0519 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,830.95	
33 42 31 00-0520 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,654.59	
33 42 31 00-0521 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,457.18	
33 42 31 00-0522 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,193.25	
33 42 31 00-0523 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,862.78	
<b>33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0525 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	1,613.77	
33 42 31 00-0526 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	1,930.48	
33 42 31 00-0527 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,224.57	





<b>Utilities</b>	<b>33</b>	<b>33</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0528 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,497.79	
33 42 31 00-0529 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,750.15	
33 42 31 00-0530 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,979.89	
<b>33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0532 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,225.30	
33 42 31 00-0533 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,581.57	
33 42 31 00-0534 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,913.02	
33 42 31 00-0535 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,219.65	
33 42 31 00-0536 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,501.45	
33 42 31 00-0537 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,757.56	
33 42 31 00-0538 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,087.61	
33 42 31 00-0539 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,936.98	
33 42 31 00-0540 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	6,722.95	
33 42 31 00-0541 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,445.53	
33 42 31 00-0542 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,143.94	
33 42 31 00-0543 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,787.96	
33 42 31 00-0544 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,376.73	
<b>33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0546 EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	1,749.66	
33 42 31 00-0547 EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,062.10	
33 42 31 00-0548 EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,352.79	
33 42 31 00-0549 EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,622.62	
33 42 31 00-0550 EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,869.83	
33 42 31 00-0551 EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,096.17	
<b>33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0553 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,157.34	
33 42 31 00-0554 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,515.77	
33 42 31 00-0555 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,849.36	
33 42 31 00-0556 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,157.24	
33 42 31 00-0557 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,441.19	
33 42 31 00-0558 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,699.41	
33 42 31 00-0559 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,058.53	
33 42 31 00-0560 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,909.41	
33 42 31 00-0561 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	6,696.02	
33 42 31 00-0562 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,419.22	
33 42 31 00-0563 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,118.14	
33 42 31 00-0564 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,762.66	
33 42 31 00-0565 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,352.81	
<b>33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0567 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,225.30	
33 42 31 00-0568 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,581.57	
33 42 31 00-0569 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,913.02	
33 42 31 00-0570 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,219.65	
33 42 31 00-0571 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,501.45	
33 42 31 00-0572 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,757.56	
33 42 31 00-0573 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,087.61	
33 42 31 00-0574 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	5,936.98	
33 42 31 00-0575 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	6,722.95	
33 42 31 00-0576 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,445.53	
33 42 31 00-0577 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,143.94	
33 42 31 00-0578 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,787.96	
33 42 31 00-0579 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,376.73	
<b>33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0581 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	1,732.67	
33 42 31 00-0582 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,045.43	
33 42 31 00-0583 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,337.32	
33 42 31 00-0584 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,606.58	
33 42 31 00-0585 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,854.97	
33 42 31 00-0586 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,081.63	
<b>33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)</b>		
33 42 31 00-0588 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	1,766.65	
33 42 31 00-0589 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,078.78	
33 42 31 00-0590 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,369.16	
33 42 31 00-0591 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,637.79	
33 42 31 00-0592 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,884.69	
33 42 31 00-0593 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,110.71	



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>33 42 31 00-0594</b>		<b>Type GT1 Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		2,955.74
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,444.32
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,933.67
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,319.81
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,705.82
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,058.53
<b>33 42 31 00-0601</b>		<b>Type GT2 Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,584.26
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,116.30
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,610.08
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,066.45
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,484.57
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,865.28
33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		7,849.45
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		9,101.73
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		10,259.18
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		11,322.66
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		12,352.13
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		13,300.14
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness		14,166.68
<b>33 42 31 00-0615</b>		<b>Type GT3 Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		2,938.75
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,427.65
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,883.24
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,304.64
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,690.98
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,044.00
<b>33 42 31 00-0622</b>		<b>Type GT4 Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		3,703.16
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,231.25
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		4,721.95
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,174.38
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,589.39
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness		5,967.04
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		7,863.98
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		9,115.96
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		10,273.08
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		11,335.38
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		12,364.59
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		13,312.36
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness		14,178.65
<b>33 42 31 00-0636</b>		<b>Type GO Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		2,106.39
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		2,449.95
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		2,769.32
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		3,064.50
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		3,335.47
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness		3,583.13
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		4,927.72
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		5,751.72
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		6,512.83
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		7,212.81
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		7,890.52
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		8,514.08
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness		9,085.24
<b>33 42 31 00-0650</b>		<b>Type GDO Concrete Drainage Inlet Structure</b> (33 42 31 00-0425)		
33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		2,751.90
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		3,203.54
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		3,623.51
33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		4,012.68
33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		4,369.31
33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness		4,695.13
33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		6,337.70
33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		7,399.79
33 42 31 00-0659	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		8,382.01
33 42 31 00-0660	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		9,285.23
33 42 31 00-0661	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		10,158.60
33 42 31 00-0662	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness		10,963.37



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,699.52	
<b>33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)</b>		
<b>33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)</b>		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover .....	387.09	87.36
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover .....	478.03	98.72
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover .....	531.20	102.22
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover .....	594.71	118.81
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover .....	684.25	135.41
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover .....	1,043.95	141.53
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	583.84	107.45
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	746.43	124.06
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	834.40	129.29
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	794.76	129.29
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	822.37	134.54
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	879.05	139.78
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	1,041.10	150.26
<b>33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)</b>		
<b>33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)</b>		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe .....	133.13	31.33
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe .....	163.23	33.42
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe .....	380.08	41.78
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe .....	454.14	50.13
<b>33 42 33 Stormwater Curbside Drains and Inlets (33 42)</b>		
<b>33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)</b>		
<b>33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)</b>		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover .....	712.96	102.22
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover .....	764.61	118.81
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover .....	790.58	118.81
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover .....	866.30	139.78
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover .....	863.13	149.39
<b>33 42 36 Stormwater Trench Drains (33 42)</b>		
<b>33 42 36 00-0001 Modular Trench Drains (33 42 36)</b>		
See CSI section 03 31 13 00-0011 for concrete.		
<b>33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)</b>		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
<b>33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)</b>		
<b>33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)</b>		
<b>33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)</b>		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	47.30	13.98
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		54.20
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		108.40
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		173.43
For Type 304 Stainless Steel Top Veneer Frame, Add		43.36
For Aluminum Veneer Bronze Anodized Frame, Add		21.68
<b>33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)</b>		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....	34.75	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....	43.49	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....	43.49	
<b>33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)</b>		
<b>33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)</b>		
<b>33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)</b>		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain .....	120.97	13.98
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		54.20
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		108.40
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		173.43
For Type 304 Stainless Steel Top Veneer Frame, Add		43.36
For Aluminum Veneer Bronze Anodized Frame, Add		21.68

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

33 42 36 00-0015		<b>Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains</b> (33 42 36 00-0012)		
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	56.49	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	65.23	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	65.23	
33 42 36 00-0019		<b>Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains</b> (33 42 36 00-0012)		
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	101.99	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	101.99	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	477.26	
33 42 36 00-0023	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	910.84	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains .....	108.40	
33 42 36 00-0025		<b>6" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> (33 42 36 00-0011)		
33 42 36 00-0026		<b>6" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> (33 42 36 00-0025)		
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain .....	171.91	13.98
		<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
		<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
		<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0028		<b>Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> (33 42 36 00-0025)		
33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	60.83	
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	69.57	
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	69.57	
33 42 36 00-0032		<b>Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> (33 42 36 00-0025)		
33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	101.99	
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	101.99	
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	477.26	
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	910.84	
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	108.40	
33 42 36 00-0038		<b>6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> (33 42 36 00-0011)		
33 42 36 00-0039		<b>6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> (33 42 36 00-0038)		
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain .....	219.61	13.98
		<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
		<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
		<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0041		<b>Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> (33 42 36 00-0038)		
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	95.51	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	104.25	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	104.25	
33 42 36 00-0045		<b>Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> (33 42 36 00-0038)		
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	101.99	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	101.99	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	477.26	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	910.84	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	108.40	
33 42 36 00-0051		<b>6" Wide, Polymer Concrete, Modular Trench Drains</b> (33 42 36 00-0011)		
33 42 36 00-0052		<b>6" Wide, Polymer Concrete, Modular Trench Drains</b> (33 42 36 00-0051)		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain .....	282.60	
33 42 36 00-0054		<b>Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains</b> (33 42 36 00-0051)		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain .....	113.63	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain .....	139.72	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain .....	48.91	



	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0058 12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain ..... For Acid Resistant Coated Top Frame, Add ..... For Galvanized Welded Frame Assembly, Add ..... For Type 304 Stainless Steel Top Frame, Add .....	222.70 56.37 59.08 338.19	19.22
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	112.17	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	123.83	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	123.83	
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	180.51	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	234.71	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	934.36	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	1,801.52	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	216.79	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain ..... For Acid Resistant Coated Top Frame, Add ..... For Galvanized Welded Frame Assembly, Add ..... For Type 304 Stainless Steel Top Frame, Add .....	276.90 56.37 59.08 338.19	19.22
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	116.51	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	128.17	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	128.17	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	180.51	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	234.71	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	934.36	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	1,801.52	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	216.79	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain ..... For Acid Resistant Coated Top Frame, Add ..... For Galvanized Welded Frame Assembly, Add ..... For Type 304 Stainless Steel Top Frame, Add .....	385.29 56.37 59.08 338.19	19.22
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	279.10	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	290.76	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	290.76	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	180.51	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	234.71	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	934.36	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	1,801.52	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	216.79	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain.....	378.97	
<b>33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains</b> <sup>(33 42 36 00-0098)</sup>		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain .....	191.60	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain .....	328.77	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain .....	82.97	
<b>33 42 36 00-0105 23" Wide, Modular Trench Drains</b> <sup>(33 42 36 00-0002)</sup>		
<b>33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0105)</sup>		
<b>33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0106)</sup>		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain .....	311.41	26.21
For Acid Resistant Coated Frame, Add	84.55	
For Galvanized Frame Assembly, Add	84.55	
For Type 304 Stainless Steel Top Frame, Add	520.30	
<b>33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0106)</sup>		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	343.25	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	511.23	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	511.23	
<b>33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0106)</sup>		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	405.58	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	1,843.51	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	3,577.83	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	433.58	
<b>33 42 36 00-0118 Modular Trench Drain Grates</b> <sup>(33 42 36 00-0001)</sup>		
<b>33 42 36 00-0119 4" Wide, Modular Trench Drain Grates</b> <sup>(33 42 36 00-0118)</sup>		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....	26.40	2.62
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG) .....	27.70	2.62
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG) .....	22.52	2.62
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS) .....	58.16	2.62
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG) .....	22.52	2.62
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	58.16	2.62
<b>33 42 36 00-0126 6" Wide, Modular Trench Drain Grates</b> <sup>(33 42 36 00-0118)</sup>		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate .....	108.43	2.62
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate .....	92.06	2.62
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	96.61	2.62
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate .....	84.58	2.62
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate .....	91.09	2.62
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate .....	92.17	2.62
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate.....	92.17	2.62
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate.....	91.09	2.62
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate .....	80.25	2.62
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate .....	80.25	2.62
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate .....	85.23	2.62
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate .....	85.23	2.62
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	110.60	2.62
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate .....	110.60	2.62
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate .....	201.65	2.62
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate.....	201.65	2.62
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate .....	559.35	2.62
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate.....	75.91	2.62
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate.....	162.63	2.62
<b>33 42 36 00-0146 12" Wide, Modular Trench Drain Grates</b> <sup>(33 42 36 00-0118)</sup>		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate .....	297.48	2.84
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....	284.47	2.84
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate .....	247.61	2.84
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate .....	260.08	2.84
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate .....	224.85	2.84
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	438.93	2.84
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate .....	438.93	2.84
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	559.79	2.84
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	559.79	2.84
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	714.26	2.84
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate .....	714.26	2.84





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0158	LF		12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate.....	677.94	2.84
33 42 36 00-0159	LF		12" Wide, Fiberglass, Modular Trench Drain Grate.....	320.78	2.84
<b>33 42 36 00-0160</b>			<b>23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>		
33 42 36 00-0161	LF		23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	469.18	3.06
33 42 36 00-0162	LF		23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	395.47	3.06
33 42 36 00-0163	LF		23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	612.26	3.06
33 42 36 00-0164	LF		23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	454.01	3.06
<b>33 44</b>			<b>Storm Utility Water Drains (33 40)</b>		
<b>33 44 36</b>			<b>Oil and Stormwater Separators (33 44)</b>		
33 44 36 00-0001			Oil/Water Separator (33 44 36) Note: Complete with internal sensors and detectors.		
33 44 36 00-0002			Coalescing Oil Water Separator (33 44 36 00-0001) Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003			Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004	EA		550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank. For Interior Polyurethane Coating, Add	12,961.12 711.00	
33 44 36 00-0005	EA		1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 1000. 4' diameter x 14' long tank. For Interior Polyurethane Coating, Add	15,349.12 893.70	
33 44 36 00-0006	EA		2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 2000. 5'-4" diameter x 15' long tank. For Interior Polyurethane Coating, Add	17,919.95 1,340.10	
33 44 36 00-0007			Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008	EA		550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank. For Interior Polyurethane Coating, Add	18,870.30 711.00	
33 44 36 00-0009	EA		1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 1000. 4' diameter x 14' long tank. For Interior Polyurethane Coating, Add	21,356.48 893.70	
33 44 36 00-0010	EA		2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 2000. 5'-4" diameter x 15' long tank. For Interior Polyurethane Coating, Add	25,589.53 1,340.10	
33 44 36 00-0011	EA		3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank. For Interior Polyurethane Coating, Add	29,421.94 1,550.70	
33 44 36 00-0012	EA		5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 5000. 6' diameter x 28'-8" long tank. For Interior Polyurethane Coating, Add	38,138.46 2,057.80	
33 44 36 00-0013			Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014	EA		Single Channel Alarm Panel For Coalescing Oil Water Separator..... Note: HTAP1.	740.05	
33 44 36 00-0015	EA		Two Channel Alarm Panel For Coalescing Oil Water Separator..... Note: HTAP2.	999.59	
33 44 36 00-0016	EA		Float Interface Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	578.70	
33 44 36 00-0017	EA		1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	435.61	
33 44 36 00-0018	EA		Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	167.32	
33 44 36 00-0019	EA		550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator.....	2,422.24	
33 44 36 00-0020	EA		3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator.....	4,844.48	
33 44 36 00-0021	EA		5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator.....	7,266.79	
33 44 36 00-0022	EA		550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	467.26	
33 44 36 00-0023	EA		2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	543.57	
33 44 36 00-0024	EA		3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	1,087.15	
33 44 36 00-0025	EA		5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	2,346.18	
33 44 36 00-0026	EA		30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	646.12	
33 44 36 00-0027	EA		36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	833.90	
33 44 36 00-0028	EA		48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,140.92	
33 44 36 00-0029	EA		54" x 54" Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	2,032.85	

**33 Utilities****33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	2,598.05	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	3,246.72	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	4,079.02	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	795.34	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	969.43	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	1,522.71	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....	758.37	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....	920.54	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....	1,092.25	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	64.39	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	72.74	
<b>33 44 36 00-0041 Oil Skimmers (33 44 36)</b>		
<b>33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)</b>		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	4,957.53	554.20
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,193.33	554.20
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	4,979.37	554.20
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,281.75	554.20
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	5,227.17	554.20
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,426.94	554.20
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	5,278.47	554.20
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,579.77	554.20
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	5,580.49	739.09
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,832.66	739.09
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	5,647.08	739.09
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	6,009.51	739.09
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	6,218.01	739.09
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	6,470.18	739.09
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	6,271.50	739.09
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,635.02	739.09
<b>33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)</b>		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	253.91	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	301.94	
<b>33 46 Stormwater Management (33 40)</b>		
<b>33 46 23 Modular Buried Stormwater Storage Units (33 46)</b>		
<b>33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)</b> Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
<b>33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)</b>		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....	367.48	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....	336.63	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....	315.35	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....	294.68	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	169.95	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740) .....	148.98	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740) .....	137.08	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	125.33	
<b>33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)</b>		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....	216.73	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....	197.01	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....	183.81	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....	171.82	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	134.30	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>33</b>
	<b>Stormwater Management</b>	<b>33 46</b>	<b>33</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0017 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310) .....	118.69	
33 46 23 00-0018 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310) .....	109.40	
33 46 23 00-0019 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310) .....	101.12	
<b>33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)</b>		
33 46 23 00-0021 EA Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) .....	608.88	
33 46 23 00-0022 EA >10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) .....	564.40	
33 46 23 00-0023 EA >20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) .....	530.06	
33 46 23 00-0024 EA >30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) .....	499.11	
33 46 23 00-0025 EA Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500) .....	518.01	
33 46 23 00-0026 EA >10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500) .....	478.07	
33 46 23 00-0027 EA >20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500) .....	448.05	
33 46 23 00-0028 EA >30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500) .....	421.19	
<b>33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)</b>		
33 46 23 00-0030 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) .....	380.51	
33 46 23 00-0031 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) .....	349.01	
33 46 23 00-0032 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) .....	327.11	
33 46 23 00-0033 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) .....	305.85	
33 46 23 00-0034 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780) .....	169.95	
33 46 23 00-0035 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780) .....	146.51	
33 46 23 00-0036 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780) .....	137.08	
33 46 23 00-0037 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780) .....	125.33	
<b>33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)</b>		
33 46 23 00-0039 EA Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) .....	635.23	
33 46 23 00-0040 EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) .....	587.91	
33 46 23 00-0041 EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) .....	550.72	
33 46 23 00-0042 EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) .....	519.18	
33 46 23 00-0043 EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500) .....	782.35	
33 46 23 00-0044 EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500) .....	727.67	
33 46 23 00-0045 EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500) .....	683.49	
33 46 23 00-0046 EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500) .....	645.31	
<b>33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)</b>		
33 46 23 00-0048 EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap .....	47.08	
33 46 23 00-0049 EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap .....	60.55	
33 46 23 00-0050 EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap .....	78.17	
33 46 23 00-0051 EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap .....	98.83	
33 46 23 00-0052 EA 12" x 6" Inspection Port Kit .....	433.61	
Note: (2712AG6IPKIT)		
<b>33 46 53 Stormwater Leaching Pits (33 46)</b>		
<b>33 46 53 00-0001 Drainage Wells (33 46 53)</b>		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner .....	24.49	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner .....	29.72	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner .....	39.43	

33 50 Hydrocarbon Utilities (33)



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

### 33 51 Hydrocarbon Sources (33 50)

#### 33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)

33 51 29 00-0001	Landfill Gas Well <small>(33 51 29)</small> See CSI section 02 62 16 00-0000 for soil vapor extraction.		
33 51 29 00-0002	Mobilization And Demobilization Landfill Gas Extraction Well <small>(33 51 29 00-0001)</small>		
33 51 29 00-0003	EA 24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization .....	973.34	
33 51 29 00-0004	EA >24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization .....	1,460.01	
33 51 29 00-0005	Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. <small>(33 51 29 00-0001)</small> Note: Excludes well gravel or materials.		
33 51 29 00-0006	LF 24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	168.51	
33 51 29 00-0007	LF 30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	219.49	
33 51 29 00-0008	LF 36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	273.02	
33 51 29 00-0009	Landfill Gas Extraction Well Gravel Backfill <small>(33 51 29 00-0001)</small> Note: 1/2" x 1-1/2" drain rock.		
33 51 29 00-0010	LF 24" Diameter Landfill Gas Extraction Well, Gravel .....	108.65	
33 51 29 00-0011	LF 30" Diameter Landfill Gas Extraction Well, Gravel .....	139.59	
33 51 29 00-0012	LF 36" Diameter Landfill Gas Extraction Well, Gravel .....	160.63	
33 51 29 00-0013	Landfill Gas Extraction Well Collection Head <small>(33 51 29 00-0001)</small>		
33 51 29 00-0014	EA Landfill Gas Extraction Well Head Assembly .....	2,110.97	
33 51 29 00-0015	EA Landfill Gas Extraction Well Locking Enclosure .....	692.21	
33 51 29 00-0016	SF Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4) .....	3.18	
33 51 29 00-0017	CF Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD) .....	6.65	
33 51 29 00-0018	CY Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts .....	110.51	
33 51 29 00-0019	EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well .....	483.69	10.77
	Note: Includes drilling, concrete footing, pipe and concrete fill.		
	For Galvanized Steel, Add	37.65	
	For 304 Stainless Steel, Add	298.96	
	For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,072.96	
	For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	536.94	
	For Schedule 80, Add	59.44	
33 51 29 00-0020	Landfill Gas Extraction Well Valve Box <small>(33 51 29 00-0001)</small>		
33 51 29 00-0021	EA 17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12) .....	243.70	115.32
33 51 29 00-0022	EA 17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18) .....	320.76	115.32
33 51 29 00-0023	EA 17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18) .....	397.92	115.32
33 51 29 00-0024	EA Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D) .....	180.44	27.81
33 51 29 00-0025	EA 6" High Extension For 17" x 30" Utility Box (FL36x6) .....	108.44	40.47
33 51 29 00-0026	EA 8" High Extension For 17" x 30" Utility Box (FL36x8) .....	120.39	40.47
33 51 29 00-0027	Landfill Gas Extraction Well Riser Pipe <small>(33 51 29 00-0001)</small>		
33 51 29 00-0028	LF 4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread .....	16.67	
33 51 29 00-0029	LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler .....	40.88	
33 51 29 00-0030	EA 6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well .....	86.54	
33 51 29 00-0031	EA 6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well .....	127.28	
33 51 29 00-0032	Soil Vapor Gas Extraction Well <small>(33 51 29)</small> See CSI section 02 62 16 00-0000 for soil vapor extraction.		
33 51 29 00-0033	Mobilization And Demobilization Soil Vapor Gas Extraction Well <small>(33 51 29 00-0032)</small>		
33 51 29 00-0034	EA Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization .....	786.41	
33 51 29 00-0035	EA >12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization .....	973.34	
33 51 29 00-0036	Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. <small>(33 51 29 00-0032)</small> Note: Excludes well gravel or materials.		
33 51 29 00-0037	LF 6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	18.86	
33 51 29 00-0038	LF 8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	22.39	
33 51 29 00-0039	LF 10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	29.93	
33 51 29 00-0040	LF 12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	46.84	
33 51 29 00-0041	LF 18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....	104.64	
33 51 29 00-0042	Soil Vapor Gas Extraction Well Pea Gravel Backfill <small>(33 51 29 00-0032)</small>		
33 51 29 00-0043	LF 6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel .....	16.82	
33 51 29 00-0044	LF 8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel .....	24.69	
33 51 29 00-0045	LF 10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel .....	34.15	
33 51 29 00-0046	LF 12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel .....	43.93	
33 51 29 00-0047	LF 18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel .....	81.19	



	<b>Utilities</b>	<b>33</b>	
	<b>Hydrocarbon Utilities</b>	<b>33 50</b>	<b>CS</b>
	<b>Hydrocarbon Sources</b>	<b>33 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 51 29 00-0048</b> Soil Vapor Gas Extraction Well Head <small>(33 51 29 00-0032)</small>		
33 51 29 00-0049 EA Soil Vapor Gas Extraction Well Head Assembly .....	1,104.02	
33 51 29 00-0050 EA Soil Vapor Gas Extraction Well Head Concrete Cap .....	1,048.00	
33 51 29 00-0051 EA Soil Vapor Gas Extraction Well Locking Enclosure .....	692.21	
33 51 29 00-0052 CF Soil Vapor Gas Extraction Well Neat Cement .....	5.62	
33 51 29 00-0053 CF Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD) .....	6.65	
33 51 29 00-0054 EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well .....	483.69	10.77
Note: Includes drilling, concrete footing, pipe and concrete fill.		
For Galvanized Steel, Add	37.65	
For 304 Stainless Steel, Add	298.96	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,072.96	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	536.94	
For Schedule 80, Add	59.44	
33 51 29 00-0055 LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well .....	2.61	
For Work In Restricted Working Space, Add	0.74	
33 51 29 00-0056 EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well .....	51.58	16.05
<b>33 51 29 00-0057</b> Soil Vapor Gas Extraction Well Riser Pipe <small>(33 51 29 00-0032)</small>		
33 51 29 00-0058 LF 3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread .....	3.03	
33 51 29 00-0059 LF 3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe .....	7.32	
<b>33 52</b> Hydrocarbon Transmission and Distribution <small>(33 50)</small>		
<b>33 52 16</b> Gas Hydrocarbon Piping <small>(33 52)</small>		
<b>33 52 16 13</b> Steel Natural Gas Piping <small>(33 52 16)</small>		
33 52 16 13-0001 Gas Distribution Lines <small>(33 52 16 13)</small>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 53</b> Hydrocarbon Utility Pressure Regulation <small>(33 50)</small>		
<b>33 53 16</b> Gas Hydrocarbon Pressure Regulation <small>(33 53)</small>		
<b>33 53 16 00-0001</b> Gas Pressure Regulators With Screwed And Flanged Ends <small>(33 53 16)</small>		
33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End .....	165.03	16.05
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End .....	168.67	16.05
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End .....	177.41	19.05
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End .....	556.78	22.06
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End .....	602.84	34.17
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End .....	1,675.59	76.65
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End .....	2,321.84	101.58
<b>33 59</b> Hydrocarbon Utility Metering <small>(33 50)</small>		
<b>33 59 11</b> Diaphragm/Bellows Hydrocarbons Meters <small>(33 59)</small>		
<b>33 59 11 00-0001</b> Diaphragm Meters <small>(33 59 11)</small>		
Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.		
33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded .....	427.85	62.80
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded .....	815.73	96.04
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded .....	943.05	96.04
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded .....	1,971.10	120.06
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded .....	2,242.57	147.76
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....	2,880.86	120.06
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....	3,221.57	147.76
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....	4,218.33	157.00
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....	5,937.73	184.70
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	



**33 Utilities****33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....	9,093.34	304.76
		<i>For Temperature And Pressure Compensation, Add</i>	8.40	
		<i>For Pulsers, Add</i>	26.50	

**33 59 16 Hydrocarbons Turbine Meters (33 59)**

33 59 16 00-0001		<b>Gas Turbine Meters With Direct-Digital Reading (33 59 16)</b>		
		Note: Maximum working pressure 175 PSI, flanged end connections.		
33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....	7,283.54	296.22
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....	7,639.01	344.00
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....	11,820.67	400.51
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....	22,895.04	487.58
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....	38,121.95	609.47

**33 70 Electrical Utilities (33)****33 71 Electrical Utility Transmission And Distribution (33 70)****33 71 19 Electrical Underground Ducts, Ductbanks And Manholes (33 71)**

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

**33 71 19 13 Electrical Manholes and Handholes (33 71 19)**

33 71 19 13-0001		<b>Electrical Handholes And Pull Boxes (33 71 19 13)</b>		
33 71 19 13-0002		<b>Electrical Pull Boxes (33 71 19 13-0001)</b>		
		See CSI section 33 05 63 00-0427 for handholes.		
33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete .....	1,629.81	
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete .....	1,949.14	
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete .....	2,253.99	
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete .....	3,491.01	
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete .....	3,720.68	
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete .....	4,000.04	
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete .....	4,601.03	
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete .....	1,730.52	
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete .....	895.27	
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete .....	1,094.02	
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete .....	1,458.54	
33 71 19 13-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete .....	904.83	
33 71 19 13-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete .....	956.21	
33 71 19 13-0016	EA	No. 5 Electric Precast Concrete Pull Boxes With Traffic Rated Lid .....	1,089.19	
		<i>For 12" Extension, Add</i>	107.10	
		<i>For Traffic Rated Lid, Add</i>	78.96	
33 71 19 13-0017	EA	No. 6 Electric Precast Concrete Pull Boxes With Traffic Rated Lid .....	1,190.48	
		<i>For 12" Extension, Add</i>	132.42	
		<i>For Traffic Rated Lid, Add</i>	109.35	

**33 71 19 13-0018 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 13-0001)**

33 71 19 13-0019	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box .....	101.73	
33 71 19 13-0020	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	36.41	
33 71 19 13-0021	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	57.89	
33 71 19 13-0022	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	113.11	
33 71 19 13-0023	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	170.36	
		<i>For Galvanized Steel Cover, Add</i>	27.72	
33 71 19 13-0024	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box .....	49.09	
33 71 19 13-0025	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box .....	49.09	
33 71 19 13-0026	EA	Body, CALTRANS 5 Precast Concrete Pull Box .....	147.00	
33 71 19 13-0027	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box .....	47.25	
33 71 19 13-0028	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box .....	68.73	
33 71 19 13-0029	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box .....	223.20	
		<i>For Galvanized Steel Cover, Add</i>	50.81	
33 71 19 13-0030	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box .....	66.02	
33 71 19 13-0031	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box .....	62.30	
33 71 19 13-0032	EA	Body, CALTRANS 6 Precast Concrete Pull Box .....	157.84	
33 71 19 13-0033	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box .....	61.82	
33 71 19 13-0034	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box .....	83.30	
33 71 19 13-0035	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box .....	303.15	
		<i>For Galvanized Steel Cover, Add</i>	71.14	
33 71 19 13-0036	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box .....	76.86	
33 71 19 13-0037	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box .....	72.80	
33 71 19 13-0038	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box .....	97.19	
33 71 19 13-0039	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box .....	200.98	
33 71 19 13-0040	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box .....	266.56	
33 71 19 13-0041	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box .....	90.41	
33 71 19 13-0042	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box .....	83.64	
33 71 19 13-0043	EA	Body, CALTRANS 5-T Precast Concrete Pull Box .....	266.24	
33 71 19 13-0044	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box .....	381.73	
33 71 19 13-0045	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box .....	106.67	
33 71 19 13-0046	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box .....	103.96	
33 71 19 13-0047	EA	Body, CALTRANS 6-T Precast Concrete Pull Box .....	365.16	



<b>Utilities</b>	<b>33</b>	<b>33</b>
<b>Electrical Utilities</b>	<b>33 70</b>	
<b>Electrical Utility Transmission And Distribution</b>	<b>33 71</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0048 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	530.78	
33 71 19 13-0049 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box .....	174.42	
33 71 19 13-0050 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	137.84	
33 71 19 13-0051 EA 24" x 36" Handhole (SDG&E 3313K/T).....	165.85	
33 71 19 13-0052 EA 24" x 36" Traffic Cover (SDG&E 3313CSTG) .....	1,080.63	
<b>33 71 19 13-0053 Precast Concrete Box Extensions</b> <small>(33 71 19 13-0001)</small>		
33 71 19 13-0054 EA 14" x 20" x 12", Precast Concrete Extension .....	199.25	
33 71 19 13-0055 EA 18" x 28" x 12", Precast Concrete Extension .....	250.18	
33 71 19 13-0056 EA 24" x 36" x 12", Precast Concrete Extension .....	325.49	
33 71 19 13-0057 EA 30" x 48" x 12", Precast Concrete Extension .....	398.71	
33 71 19 13-0058 EA 36" x 60" x 12", Precast Concrete Extension .....	648.50	
33 71 19 13-0059 EA 36" x 72" x 12", Precast Concrete Extension .....	873.96	
33 71 19 13-0060 EA 48" x 48" x 12", Precast Concrete Extension .....	999.70	
33 71 19 13-0061 EA 48" x 60" x 12", Precast Concrete Extension .....	1,227.44	
<b>33 71 19 13-0062 Electrical Property Line Boxes</b> <small>(33 71 19 13)</small>		
33 71 19 13-0063 EA 3'-6" x 2'-9" x 2' Deep Property Line Box .....	3,194.36	335.90
33 71 19 13-0064 EA 4'-6" x 3'-6" x 4' Deep Property Line Box .....	3,734.43	348.35
33 71 19 13-0065 EA 6' x 4' x 5' Deep Property Line Box .....	4,114.67	422.99
33 71 19 13-0066 EA 11'-6" x 4'-6" x 6' Deep Property Line Box .....	6,289.25	622.04
<b>33 71 19 13-0067 Manhole Accessories</b> <small>(33 71 19 13)</small>		
33 71 19 13-0068 EA 6" Precast Grade Ring Riser Casting.....	439.00	
33 71 19 13-0069 EA 12" Precast Grade Ring Riser Casting.....	475.40	
33 71 19 13-0070 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	1,646.82	
33 71 19 13-0071 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	2,145.60	
33 71 19 13-0072 EA Cast Iron Adjusting Ring (NEENAH #R-1979) .....	710.48	
33 71 19 13-0073 EA Cast Iron Frame And Cover (NEENAH #R-1640-B).....	897.30	
<b>33 71 19 23 Trenched Electrical Underground Duct and Ductbanks</b> <small>(33 71 19)</small>		
<b>33 71 19 23-0001 Underground Cable Protection Slab And Marking</b> <small>(33 71 19 23)</small>		
33 71 19 23-0002 EA 24" x 12", 2" Concrete, Underground Cable Protection.....	4.78	
<b>33 71 19 23-0003 Underground Electrical Concrete Markers</b> <small>(33 71 19 23)</small>		
33 71 19 23-0004 EA 36" x 6" x 6", Underground Electric Concrete Marker .....	306.95	

**END OF SECTION 33**

33	<b>33 Utilities</b>
	33 70 Electrical Utilities
	33 71 Electrical Utility Transmission And Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 34 Transportation

### 34 01 Operation And Maintenance Of Transportation <sup>(34)</sup>

#### 34 01 23 Operation And Maintenance Of Railways <sup>(34 01)</sup>

##### 34 01 23 33 Track Realignment <sup>(34 01 23)</sup>

##### 34 01 23 33-0001 Realign Railroad Track <sup>(34 01 23 33)</sup>

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes.....	80.99
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes.....	3,981.60

#### 34 01 43 Operation And Maintenance Of Bridges <sup>(34 01)</sup>

##### 34 01 43 00-0001 Repair Of Bridge Posts <sup>(34 01 43)</sup>

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar.....	30.03
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High..... Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.	1,660.60
34 01 43 00-0004	EA	Repair Bearing Pad.....	589.98

##### 34 01 43 00-0005 Repair Of Bridge Rails <sup>(34 01 43)</sup>

34 01 43 00-0006	EA	Repair Concrete Rail Supports.....	310.29
34 01 43 00-0007	LF	Repair Guardrail.....	116.36
34 01 43 00-0008	LF	Repair Bridge Parapet Wall.....	193.93
34 01 43 00-0009	LF	Repair Bridge Rail.....	77.57
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts.....	41.24
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail.....	44.89
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail.....	58.18
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail.....	65.16

##### 34 01 43 00-0014 Repair Of Bridge <sup>(34 01 43)</sup>

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge.....	18.83
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### 34 05 Common Work Results For Transportation <sup>(34)</sup>

#### 34 05 43 Common Work Results For Bridges <sup>(34 05)</sup>

##### 34 05 43 00-0001 Mobilize Bridge Crew <sup>(34 05 43)</sup>

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew.....	1,047.45
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##### 34 05 43 00-0003 Bridge And Structures Concrete Repair <sup>(34 05 43)</sup>

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

##### 34 05 43 00-0004 Patch Decks Or Floors <sup>(34 05 43 00-0003)</sup>

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0005	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	1,832.32
34 05 43 00-0006	SF	Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	76.87
34 05 43 00-0007	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	1,876.83
34 05 43 00-0008	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	79.65
34 05 43 00-0009	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	1,866.98
34 05 43 00-0010	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	79.04
34 05 43 00-0011	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	2,621.51
		<i>For Owner Furnished Material, Deduct</i>	<i>-924.81</i>
34 05 43 00-0012	SF	Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	126.19
		<i>For Owner Furnished Material, Deduct</i>	<i>-57.80</i>

##### 34 05 43 00-0013 Patch Verticals Or Overheads <sup>(34 05 43 00-0003)</sup>

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0014	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	2,166.94
34 05 43 00-0015	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	93.61
34 05 43 00-0016	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material.....	2,211.45
34 05 43 00-0017	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material.....	96.39
34 05 43 00-0018	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	2,201.60
34 05 43 00-0019	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	95.78
34 05 43 00-0020	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	2,956.13
		<i>For Owner Furnished Material, Deduct</i>	<i>-924.81</i>

**34 Transportation**  
**34 05 Common Work Results For Transportation**  
**34 05 43 Common Work Results For Bridges**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0021 SF Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified) ..... <i>For Owner Furnished Material, Deduct</i>	142.93 -57.80	
<b>34 05 43 00-0022 Patch Pier Caps And Pedestals</b> <small>(34 05 43 00-0003)</small> Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material .....	2,501.56	
34 05 43 00-0024 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material .....	106.16	
34 05 43 00-0025 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material .....	2,546.07	
34 05 43 00-0026 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material .....	108.94	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate .....	2,536.22	
34 05 43 00-0028 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate .....	108.33	
34 05 43 00-0029 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified) .....	3,290.75	
<i>For Owner Furnished Material, Deduct</i>	-924.81	
34 05 43 00-0030 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified) .....	155.48	
<i>For Owner Furnished Material, Deduct</i>	-57.80	
<b>34 05 43 00-0031 Patch Circular Piers</b> <small>(34 05 43 00-0003)</small> Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material .....	3,003.50	
34 05 43 00-0033 SF Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material .....	118.70	
34 05 43 00-0034 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material .....	3,048.01	
34 05 43 00-0035 SF Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material .....	121.48	
34 05 43 00-0036 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate .....	3,038.16	
34 05 43 00-0037 SF Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate .....	135.48	
34 05 43 00-0038 EA Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified) .....	3,792.69	
<i>For Owner Furnished Material, Deduct</i>	-924.81	
34 05 43 00-0039 SF Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified) .....	168.02	
<i>For Owner Furnished Material, Deduct</i>	-57.80	
<b>34 05 43 00-0040 Fiber Reinforced Shotcrete Repair</b> <small>(34 05 43)</small>		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew .....	676.20	
34 05 43 00-0042 SF Up to 2" Thick, Fiber Reinforced Shotcrete Repair .....	52.19	
<i>For Up To 25, Add</i>	25.36	
<i>For &gt;25 To 50, Add</i>	12.68	
<i>For &gt;50 To 150, Add</i>	5.07	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair .....	62.12	
<i>For Up To 25, Add</i>	29.59	
<i>For &gt;25 To 50, Add</i>	14.80	
<i>For &gt;50 To 150, Add</i>	5.92	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair .....	72.04	
<i>For Up To 25, Add</i>	33.81	
<i>For &gt;25 To 50, Add</i>	16.91	
<i>For &gt;50 To 150, Add</i>	6.76	
<b>34 05 43 00-0045 Bridge Railing</b> <small>(34 05 43)</small>		
<b>34 05 43 00-0046 Remove And Store Bridge Railings</b> <small>(34 05 43 00-0045)</small> See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Removal And Storage Of One Rail Bridge Railing .....	6.28	
34 05 43 00-0048 LF Removal And Storage Of Two Rail Bridge Railing .....	12.57	
34 05 43 00-0049 LF Removal And Storage Of Three Rail Bridge Railing .....	18.84	
34 05 43 00-0050 LF Removal And Storage Of Four Rail Bridge Railing .....	25.12	
<b>34 05 43 00-0051 Install Stored Or Supplied Bridge Railings</b> <small>(34 05 43 00-0045)</small> See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing .....	52.93	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing .....	105.85	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing .....	158.78	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing .....	211.71	
<b>34 05 43 00-0056 Bridge Bearings</b> <small>(34 05 43)</small> Note: Excludes drilling and anchor bolts.		
<b>34 05 43 00-0057 Elastomeric Bearings</b> <small>(34 05 43 00-0056)</small>		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads .....	784.46	256.52
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K .....	1,224.91	513.03
<i>For &gt;100K To 250K Load, Add</i>	51.95	
<i>For &gt;250K To 500K Load, Add</i>	103.90	
<i>For &gt;500K To 750K Load, Add</i>	155.84	
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K .....	2,633.90	769.56
<i>For &gt;100K To 250K Load, Add</i>	157.58	
<i>For &gt;250K To 500K Load, Add</i>	315.15	
<i>For &gt;500K To 750K Load, Add</i>	472.73	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 05 43 00-0061</b>				<b>Fixed Structural Pot Bearings</b> <small>(34 05 43 00-0056)</small>		
			EA	100K To 250K Fixed Structural Pot Bearing .....	2,153.57	
			EA	>250K To 500K Fixed Structural Pot Bearing .....	3,337.47	
			EA	>500K To 750K Fixed Structural Pot Bearing .....	4,521.34	
<b>34 05 43 00-0065</b>				<b>Universal Structural Expansion Pot Bearings</b> <small>(34 05 43 00-0056)</small>		
			EA	100K To 250K Universal Structural Pot Bearing .....	2,742.81	
			EA	>250K To 500K Universal Structural Pot Bearing .....	4,245.92	
			EA	>500K To 750K Universal Structural Pot Bearing .....	5,752.21	
<b>34 05 43 00-0069</b>				<b>Guided Structural Expansion Pot Bearings</b> <small>(34 05 43 00-0056)</small>		
			EA	100K To 250K Guided Structural Pot Bearing .....	2,836.62	
			EA	>250K To 500K Guided Structural Pot Bearing .....	4,386.61	
			EA	>500K To 750K Guided Structural Pot Bearing .....	5,939.80	
<b>34 05 43 00-0073</b>				<b>Remove, Repair And Install Bridge Bearings</b> <small>(34 05 43 00-0056)</small>		
<b>34 05 43 00-0074</b>				<b>Remove Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
			EA	100K To 250K Structural Bearing Removal .....	368.75	
			EA	>250K To 500K Structural Bearing Removal .....	737.49	
			EA	>500K To 750K Structural Bearing Removal .....	1,106.24	
<b>34 05 43 00-0078</b>				<b>Install And Set Supplied Or Restored Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
			EA	100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing .....	553.11	
			EA	>250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing .....	1,106.24	
			EA	>500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing .....	1,659.35	
<b>34 05 43 00-0082</b>				<b>Power Wash And Paint Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
				Note: Includes bearing plates.		
			EA	100K To 250K Structural Bearing - Power Wash And Paint .....	860.74	
			EA	>250K To 500K Structural Bearing - Power Wash And Paint .....	971.28	
			EA	>500K To 750K Structural Bearing - Power Wash And Paint .....	1,081.83	
<b>34 05 43 00-0086</b>				<b>Power Wash, Mechanically Clean And Paint Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
				Note: Includes bearing plates. Excludes paint removal.		
			EA	100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint .....	1,145.79	
				<i>For Vacuum Contained Cleaning, Add</i>	285.03	
			EA	>250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint .....	1,291.93	
				<i>For Vacuum Contained Cleaning, Add</i>	320.65	
			EA	>500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint .....	1,437.74	
				<i>For Vacuum Contained Cleaning, Add</i>	356.19	
<b>34 05 43 00-0090</b>				<b>Power Wash And Paint Only Bearing Plates</b> <small>(34 05 43 00-0073)</small>		
			EA	100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates .....	537.25	
			EA	>250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates .....	645.97	
			EA	>500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates .....	754.68	
<b>34 05 43 00-0094</b>				<b>Power Wash, Mechanically Clean And Paint Only Bearing Plates</b> <small>(34 05 43 00-0073)</small>		
			EA	100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates .....	716.44	
				<i>For Vacuum Contained Cleaning, Add</i>	178.15	
			EA	>250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates .....	859.73	
				<i>For Vacuum Contained Cleaning, Add</i>	213.77	
			EA	>500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates .....	1,002.71	
				<i>For Vacuum Contained Cleaning, Add</i>	249.31	
<b>34 05 43 00-0098</b>				<b>Sand Blast And Paint Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
				Note: Includes bearing plates.		
			EA	100K To 250K Structural Bearing - Sand Blast And Paint .....	1,373.78	
				<i>For Vacuum Contained Cleaning, Add</i>	342.03	
			EA	>250K To 500K Structural Bearing - Sand Blast And Paint .....	1,548.45	
				<i>For Vacuum Contained Cleaning, Add</i>	384.78	
			EA	>500K To 750K Structural Bearing - Sand Blast And Paint .....	1,723.13	
				<i>For Vacuum Contained Cleaning, Add</i>	427.53	
<b>34 05 43 00-0102</b>				<b>Sand Blast And Paint Only Bearing Plates</b> <small>(34 05 43 00-0073)</small>		
			EA	100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates .....	858.91	
				<i>For Vacuum Contained Cleaning, Add</i>	213.77	
			EA	>250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates .....	1,030.75	
				<i>For Vacuum Contained Cleaning, Add</i>	256.52	

**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates <i>For Vacuum Contained Cleaning, Add</i>	1,202.57 299.27	
<b>34 05 43 00-0106 Grease Structural Bearings</b> <small>(34 05 43 00-0073)</small>		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	53.44	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	80.16	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	106.89	
<b>34 05 43 00-0110 Replace Bronze Plate Wearing Pad</b> <small>(34 05 43 00-0073)</small>		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad	307.35	
<b>34 05 43 00-0112 Bridge Bearing Rivet Removal</b> <small>(34 05 43 00-0073)</small>		
See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	213.76	
<b>34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates</b> <small>(34 05 43)</small>		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel	208.49	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper	211.94	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	129.51	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	129.51	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	129.51	
<b>34 05 43 00-0120 Vertical Jacking And Lifting</b> <small>(34 05 43)</small>		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
<b>34 05 43 00-0121 Mobilize Jacking Crew And Equipment</b> <small>(34 05 43 00-0120)</small>		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment <i>For Temporary Support Mobilization, Add</i>	1,923.89 3,847.78	
<b>34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact</b> <small>(34 05 43 00-0120)</small>		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	320.65 64.13 128.26	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	374.09 74.82 149.64	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	427.53 85.51 171.01	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	480.97 96.19 192.39	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	534.41 106.88 213.76	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	587.86 117.57 235.14	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	641.30 128.26 256.52	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	668.02 133.60 267.21	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	694.73 138.95 277.89	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	694.73 138.95 277.89	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	748.18 149.64 299.27	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	801.62 160.32 320.65	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	855.06 171.01 342.02	
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	908.51 181.70 363.40	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 05 43 00-0138</b>		<b>Daily Charge For Vertical Jacking Equipment</b> <small>(34 05 43 00-0120)</small> Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139	DAY	Up To 10 Ton Jacking Equipment Charge By The Day .....	12.12	
34 05 43 00-0140	DAY	>10 To 20 Ton Jacking Equipment Charge By The Day .....	24.25	
34 05 43 00-0141	DAY	>20 To 40 Ton Jacking Equipment Charge By The Day .....	48.50	
34 05 43 00-0142	DAY	>40 To 60 Ton Jacking Equipment Charge By The Day .....	72.75	
34 05 43 00-0143	DAY	>60 To 80 Ton Jacking Equipment Charge By The Day .....	96.99	
34 05 43 00-0144	DAY	>80 To 100 Ton Jacking Equipment Charge By The Day .....	121.24	
34 05 43 00-0145	DAY	>100 To 120 Ton Jacking Equipment Charge By The Day .....	145.49	
34 05 43 00-0146	DAY	>120 To 140 Ton Jacking Equipment Charge By The Day .....	169.74	
34 05 43 00-0147	DAY	>140 To 160 Ton Jacking Equipment Charge By The Day .....	193.99	
34 05 43 00-0148	DAY	>160 To 250 Ton Jacking Equipment Charge By The Day .....	221.36	
34 05 43 00-0149	DAY	>250 To 300 Ton Jacking Equipment Charge By The Day .....	252.35	
34 05 43 00-0150	DAY	>300 To 400 Ton Jacking Equipment Charge By The Day .....	319.64	
34 05 43 00-0151	DAY	>400 To 500 Ton Jacking Equipment Charge By The Day .....	379.57	
34 05 43 00-0152	DAY	>500 To 600 Ton Jacking Equipment Charge By The Day .....	432.72	
<b>34 05 43 00-0153</b>		<b>Temporary Shoring</b> <small>(34 05 43 00-0120)</small> Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
<b>34 05 43 00-0154</b>		<b>HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0155	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup .....	2,352.64	
34 05 43 00-0156	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation .....	1,776.63	
34 05 43 00-0157	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	360.19	
<b>34 05 43 00-0158</b>		<b>HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0159	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup .....	2,387.65	
34 05 43 00-0160	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation .....	1,674.35	
34 05 43 00-0161	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	345.52	
<b>34 05 43 00-0162</b>		<b>HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0163	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup .....	1,469.52	
34 05 43 00-0164	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation .....	746.72	
34 05 43 00-0165	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	219.96	
<b>34 05 43 00-0166</b>		<b>HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0167	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup .....	4,214.20	
34 05 43 00-0168	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation .....	2,691.54	
34 05 43 00-0169	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	592.05	
<b>34 05 43 00-0170</b>		<b>Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring</b> <small>(34 05 43 00-0153)</small> Note: Excludes mats. See CSI section 01 22 23 00-0543 for mats.		
34 05 43 00-0171	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup .....	4,391.35	
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation .....	1,812.00	

**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0173 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal ..... Note: Excludes mats.	903.67	
<b>34 05 43 00-0174 Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring</b> <small>(34 05 43 00-0153)</small> Note: Excludes mats. See CSI section 01 22 23 00-0543 for mats.		
34 05 43 00-0175 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	1,729.62	
34 05 43 00-0176 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation ..... Note: Excludes mats.	550.60	
34 05 43 00-0177 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal ..... Note: Excludes mats.	309.77	
<b>34 05 43 00-0178 MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0179 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup .....	2,482.43	
34 05 43 00-0180 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation.....	2,315.08	
34 05 43 00-0181 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	302.45	
<b>34 05 43 00-0182 MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0183 EA WT15x74 Attached To Abutment Face, Temporary Shoring Setup .....	1,772.13	
34 05 43 00-0184 EA WT15x74 Attached To Abutment Face, Temporary Shoring Relocation.....	1,631.85	
34 05 43 00-0185 EA WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal .....	249.28	
<b>34 05 43 00-0186 Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring</b> <small>(34 05 43 00-0153)</small>		
34 05 43 00-0187 EA Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup ..... Note: Left in place.	1,130.78	
<b>34 05 43 00-0188 Temporary Bridge Shoring Components</b> <small>(34 05 43 00-0153)</small> Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0040 for temporary lumber.		
<b>34 05 43 00-0189 Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring</b> <small>(34 05 43 00-0188)</small> Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190 LF Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring .....	65.37	
Note: Remove after use.		
34 05 43 00-0191 LF Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring .....	163.24	
Note: Remove after use.		
34 05 43 00-0192 LF Fabricate And Install HP12 x 53 For Temorary Bridge Shoring .....	124.51	
Note: Remove after use.		
34 05 43 00-0193 LF Fabricate And Install HP12 x 63 For Temorary Bridge Shoring .....	138.40	
Note: Remove after use.		
34 05 43 00-0194 LF Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring.....	21.14	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	5.27	
34 05 43 00-0195 LF Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring.....	26.92	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	7.17	
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring.....	54.46	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	16.21	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring .....	47.24	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	14.53	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring.....	62.51	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	19.22	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring.....	67.72	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	1.66	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring.....	94.80	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	2.32	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring .....	148.98	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	3.64	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring .....	162.52	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	3.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring</b> <small>(34 05 43 00-0188)</small>		
<i>Note: Includes removal after use.</i>		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring .....	3,779.75	
<i>Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.</i>		
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring.....	76.16	
<i>Note: Remove after use.</i>		
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring.....	60.48	
<i>Note: Remove after use.</i>		
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring.....	12.64	
<i>Note: Remove after use.</i>		
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring.....	15.35	
<i>Note: Remove after use.</i>		
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring.....	31.51	
<i>Note: Remove after use.</i>		
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring.....	48.46	
<i>Note: Remove after use.</i>		
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring .....	35.07	
<i>Note: Remove after use.</i>		
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring.....	59.21	
<i>Note: Remove after use.</i>		
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring.....	34.62	
<i>Note: Remove after use.</i>		
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring.....	28.31	
<i>Note: Remove after use.</i>		
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring.....	83.08	
<i>Note: Remove after use.</i>		
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring .....	101.22	
<i>Note: Remove after use.</i>		
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring.....	23.81	
<i>Note: Remove after use.</i>		
<b>34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges</b> <small>(34 05 43)</small>		
<i>See CSI section 03 15 19 00-0001 for anchor bolts.</i>		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas .....	23.39	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals .....	372.06	
34 05 43 00-0221 CY Pour Pedestals.....	375.82	
34 05 43 00-0222 CY Demolish Concrete Pedestals.....	3,374.08	
34 05 43 00-0223 CY Pour Pier Cap .....	444.10	
34 05 43 00-0224 CY Demolish Concrete Pier Cap.....	3,879.82	
<b>34 05 43 00-0225 Bridge Deck Repair</b> <small>(34 05 43)</small>		
<b>34 05 43 00-0226 Bridge Expansion Joint Repair</b> <small>(34 05 43 00-0225)</small>		
<i>Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.</i>		
34 05 43 00-0227 CF Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System .....	622.01	
34 05 43 00-0228 CF Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar .....	207.59	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>		33.84
34 05 43 00-0229 CF Removal And Replacement Of Header With Polyester-Based Polymer Patch .....	220.87	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>		35.17
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone .....	5.24	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA .....	.64	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone .....	69.77	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone .....	73.85	
<b>34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck</b> <small>(34 05 43 00-0225)</small>		
<i>Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.</i>		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....	143.51	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....	162.71	
34 05 43 00-0237 LF 1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....	138.45	
34 05 43 00-0238 LF 1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....	136.66	
<b>34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck</b> <small>(34 05 43 00-0225)</small>		
<i>Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.</i>		
34 05 43 00-0240 LF 1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck .....	18.70	
34 05 43 00-0241 LF 1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck .....	22.50	
34 05 43 00-0242 LF 2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck .....	27.26	
34 05 43 00-0243 LF 2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck .....	29.52	



**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

34 05 43 00-0244	V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
	Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.		
34 05 43 00-0245	LF 3" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck.....	63.91	
34 05 43 00-0246	LF 4" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck.....	67.41	
34 05 43 00-0247	J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
	Note: Includes saw cutting, sand blasting, conditioner, and epoxy.		
34 05 43 00-0248	LF 2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	63.75	
34 05 43 00-0249	LF 2-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	74.44	
34 05 43 00-0250	LF 3" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	90.16	
34 05 43 00-0251	LF 3-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	107.60	
34 05 43 00-0252	LF 4" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	119.37	
34 05 43 00-0253	LF 5" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	211.21	
34 05 43 00-0254	Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
	Note: Includes saw cutting, sand blasting, and lubricant adhesive.		
34 05 43 00-0255	LF 1-1/4" x 1-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	37.38	
34 05 43 00-0256	LF 1-5/8" x 1-7/8" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	40.27	
34 05 43 00-0257	LF 1-3/4" x 1-3/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	41.94	
34 05 43 00-0258	LF 2" x 2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	43.94	
34 05 43 00-0259	LF 2-1/2" x 2-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	48.73	
34 05 43 00-0260	LF 3" x 3-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	54.82	
34 05 43 00-0261	LF 3-1/2" x 3-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	63.08	
34 05 43 00-0262	LF 4" x 4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	71.49	
34 05 43 00-0263	LF 4-1/2" x 4-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	75.34	
34 05 43 00-0264	LF 5" x 5" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	84.93	
34 05 43 00-0265	LF 6" x 6" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	116.24	
34 05 43 00-0266	Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
	Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267	LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	35.06	
34 05 43 00-0268	LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	36.08	
34 05 43 00-0269	LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	37.09	
34 05 43 00-0270	LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	38.44	
34 05 43 00-0271	LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	39.81	
34 05 43 00-0272	LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	56.57	
34 05 43 00-0273	LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	60.30	
34 05 43 00-0274	LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	62.66	
34 05 43 00-0275	LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	66.35	
34 05 43 00-0276	LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	70.56	
34 05 43 00-0277	LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	74.95	
34 05 43 00-0278	LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	77.21	
34 05 43 00-0279	LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	84.73	
34 05 43 00-0280	LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	90.95	
34 05 43 00-0281	LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	96.27	
34 05 43 00-0282	LF 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	98.62	
34 05 43 00-0283	EA 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	125.77	
34 05 43 00-0284	EA 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	129.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0285 EA 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	150.17	
34 05 43 00-0286 EA 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	156.69	
34 05 43 00-0287 EA 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	162.02	
34 05 43 00-0288 EA 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	185.52	
34 05 43 00-0289 EA 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	190.56	
34 05 43 00-0290 EA 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	196.43	
34 05 43 00-0291 EA 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	202.65	
34 05 43 00-0292 EA 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	232.96	
34 05 43 00-0293 EA 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	244.52	
34 05 43 00-0294 EA 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	253.87	
34 05 43 00-0295 EA 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	261.70	
34 05 43 00-0296 EA 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	265.10	
<b>34 05 43 00-0297 Remove Existing Steel Joint System (34 05 43 00-0225)</b>		
34 05 43 00-0298 LF Removal Of Existing Steel Joint System	71.22	
<b>34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225)</b>		
Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0300 SY Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine	14.94	
For >500 To 1,000, Deduct	-1.49	
For >1,000 To 2,500, Deduct	-2.69	
For >2,500 To 5,000, Deduct	-3.88	
For >5,000 To 10,000, Deduct	-5.08	
For >10,000, Deduct	-6.27	
34 05 43 00-0301 SY Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine	20.40	
For >500 To 1,000, Deduct	-2.04	
For >1,000 To 2,500, Deduct	-3.67	
For >2,500 To 5,000, Deduct	-5.30	
For >5,000 To 10,000, Deduct	-6.94	
For >10,000, Deduct	-8.57	
34 05 43 00-0302 SY Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	24.74	
For >500 To 1,000, Deduct	-2.47	
For >1,000 To 2,500, Deduct	-4.45	
For >2,500 To 5,000, Deduct	-6.43	
For >5,000 To 10,000, Deduct	-8.41	
For >10,000, Deduct	-10.39	
34 05 43 00-0303 SY Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	31.81	
For >500 To 1,000, Deduct	-3.18	
For >1,000 To 2,500, Deduct	-5.73	
For >2,500 To 5,000, Deduct	-8.27	
For >5,000 To 10,000, Deduct	-10.82	
For >10,000, Deduct	-13.36	
34 05 43 00-0304 SY Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	56.87	
For >500 To 1,000, Deduct	-5.69	
For >1,000 To 2,500, Deduct	-10.24	
For >2,500 To 5,000, Deduct	-14.79	
For >5,000 To 10,000, Deduct	-19.34	
For >10,000, Deduct	-23.89	
34 05 43 00-0305 SY Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	74.22	
For >500 To 1,000, Deduct	-7.42	
For >1,000 To 2,500, Deduct	-13.36	
For >2,500 To 5,000, Deduct	-19.30	
For >5,000 To 10,000, Deduct	-25.23	
For >10,000, Deduct	-31.17	
34 05 43 00-0306 SY Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	97.04	
For >500 To 1,000, Deduct	-9.70	
For >1,000 To 2,500, Deduct	-17.47	
For >2,500 To 5,000, Deduct	-25.23	
For >5,000 To 10,000, Deduct	-32.99	
For >10,000, Deduct	-40.76	
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	117.76	
For >500 To 1,000, Deduct	-11.78	
For >1,000 To 2,500, Deduct	-21.20	
For >2,500 To 5,000, Deduct	-30.62	
For >5,000 To 10,000, Deduct	-40.04	
For >10,000, Deduct	-49.46	

**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

34 05 43 00-0308		<b>Break-Up And Remove Bridge Decking By Hand</b> <small>(34 05 43 00-0225)</small> Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0309	SF	Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand .....	10.86	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0310	SF	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand .....	14.27	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0311	SF	Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand .....	18.56	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0312	SF	Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand.....	13.57	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0313	SF	Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand.....	16.95	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0314	SF	Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand.....	20.35	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0315	SF	Chipping And Cleaning Of Bridge Deck After Break-up And Removals .....	4.86	
34 05 43 00-0316		<b>Hydro Blasting Of Bridge Decks</b> <small>(34 05 43 00-0225)</small> Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317	EA	Mobilization Of Hydro Blasting Equipment.....	10,977.93	
		Note: Includes trailer with power, hydro milling machine, vacuum machine.		
34 05 43 00-0318	EA	Mobilization Of Hydro Blasting Equipment .....	1,425.71	
		Note: Includes water tank, pump and miscellaneous fittings.		
34 05 43 00-0319	SF	Hydroblasting Of Up To 2-1/2" Of Bridge Decks .....	10.16	
34 05 43 00-0320	SF	Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting.....	7.51	
34 05 43 00-0321	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2" .....	1.86	
34 05 43 00-0322	SF	Hydroblasting 3" To 4-1/2" Of Bridge Decks .....	15.02	
34 05 43 00-0323	SF	Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting .....	10.16	
34 05 43 00-0324	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2".....	4.86	
34 05 43 00-0325	GAL	Water For Hydro Blasting .....	0.12	
		Note: Includes delivery.		
34 05 43 00-0326		<b>Patch For Bridge Deck</b> <small>(34 05 43 00-0225)</small>		
34 05 43 00-0327	CF	Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck.....	112.67	
		Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0328	CF	Polyester-Based Polymer Patch For Bridge Deck.....	125.94	
		Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0329	SF	Hand Placed Hot Mixed Asphalt Repair For Bridge Approach .....	19.78	
		Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.		
34 05 43 00-0330		<b>Pressure Washing For Bridge Deck</b> <small>(34 05 43 00-0225)</small>		
34 05 43 00-0331	SF	Pressure Washing For Bridge Deck.....	0.07	
		Note: Includes pressure washer and water.		
34 05 43 00-0332		<b>Galvanic Anodes</b> <small>(34 05 43)</small>		
34 05 43 00-0333	EA	2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP) .....	34.77	
		Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0334	EA	4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT ) .....	34.77	
		Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0335	EA	2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2 ) .....	39.55	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0336	EA	4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4 ) .....	43.18	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0337	EA	2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+ ) .....	39.55	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0338	EA	1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65 ).....	40.76	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0339	EA	1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100 ).....	49.23	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340	EA	1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....	45.60	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 05 43 00-0341</b> <b>Bridge Netting Panels</b> <small>(34 05 43)</small>		
34 05 43 00-0342    SF    Bridge Netting Panel.....	5.96	
<i>Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.</i>		
<i>For Up To 160, Add</i>	<i>7.76</i>	
<i>For &gt;160 To 320, Add</i>	<i>3.88</i>	
<i>For &gt;320 To 480, Add</i>	<i>1.94</i>	
<i>For &gt;2,000 To 10,000, Deduct</i>	<i>-0.25</i>	
<i>For &gt;10,000 To 25,000, Deduct</i>	<i>-0.50</i>	
<i>For &gt;25,000, Deduct</i>	<i>-0.75</i>	
<b>34 05 43 00-0343</b> <b>Anchors</b> <small>(34 05 43)</small>		
<i>Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.</i>		
<b>34 05 43 00-0344</b> <b>Threaded Rod, A449</b> <small>(34 05 43 00-0343)</small>		
34 05 43 00-0345    LF    7/8" Diameter Continuous Threaded Rod, A449.....	12.89	
34 05 43 00-0346    LF    1" Diameter Continuous Threaded Rod, A449.....	15.29	
34 05 43 00-0347    LF    1-1/8" Diameter Continuous Threaded Rod, A449.....	17.66	
34 05 43 00-0348    LF    1-1/4" Diameter Continuous Threaded Rod, A449.....	22.17	
<b>34 05 43 00-0349</b> <b>Flat Washers, F436</b> <small>(34 05 43 00-0343)</small>		
34 05 43 00-0350    EA    7/8" Flat Washer, F436.....	1.58	
34 05 43 00-0351    EA    1" Flat Washer, F436.....	1.84	
34 05 43 00-0352    EA    1-1/8" Flat Washer, F436.....	2.01	
34 05 43 00-0353    EA    1-1/4" Flat Washer, F436.....	2.30	
<b>34 05 43 00-0354</b> <b>Heavy Hex Nut, A194</b> <small>(34 05 43 00-0343)</small>		
34 05 43 00-0355    EA    7/8" Hex Nut, A194.....	3.05	
34 05 43 00-0356    EA    1" Hex Nut, A194.....	4.04	
34 05 43 00-0357    EA    1-1/8" Hex Nut, A194.....	4.76	
34 05 43 00-0358    EA    1-1/4" Hex Nut, A194.....	5.65	
<b>34 05 43 00-0359</b> <b>Grout For Threaded Rod</b> <small>(34 05 43 00-0343)</small>		
34 05 43 00-0360    IN    Grout 7/8" Rod In Hole.....	2.49	
34 05 43 00-0361    IN    Grout 1" Rod In Hole.....	2.83	
34 05 43 00-0362    IN    Grout 1-1/8" Rod In Hole.....	3.31	
34 05 43 00-0363    IN    Grout 1-1/4" Rod In Hole.....	3.95	
<b>34 05 43 00-0364</b> <b>Test Grouted Anchor</b> <small>(34 05 43 00-0343)</small>		
34 05 43 00-0365    EA    Test Grouted Anchor.....	20.38	
<b>34 05 43 00-0366</b> <b>Removal Of Fasteners Or Anchors In Concrete</b> <small>(34 05 43 00-0343)</small>		
<i>Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.</i>		
34 05 43 00-0367    EA    Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	21.42	
34 05 43 00-0368    EA    Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	23.02	
34 05 43 00-0369    EA    Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	24.00	
34 05 43 00-0370    EA    Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	25.89	
34 05 43 00-0371    EA    Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	28.35	
34 05 43 00-0372    EA    Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	31.23	
34 05 43 00-0373    EA    Drill Out 1" Diameter Fastener/Anchor In Concrete.....	32.99	
34 05 43 00-0374    EA    Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	35.01	
34 05 43 00-0375    EA    Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	37.51	
34 05 43 00-0376    EA    Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	42.16	
<b>34 05 43 00-0377</b> <b>Bridge Surfacing</b> <small>(34 05 43)</small>		
<b>34 05 43 00-0378</b> <b>Bridge Coatings</b> <small>(34 05 43 00-0377)</small>		
<i>Note: Includes sweeping of bridge deck.</i>		
34 05 43 00-0379    SF    Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	0.78	
<i>Note: Includes power washing and drying after power washing.</i>		
34 05 43 00-0380    SF    Protective Seal Coat For Existing Bridge Decks.....	1.54	
34 05 43 00-0381    SF    Penetrating Sealer For Existing Bridge Decks.....	2.46	
<b>34 05 43 00-0382</b> <b>Bridge Membranes</b> <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes abrasive blasting of deck.</i>		
34 05 43 00-0383    SF    Spray Applied Waterproofing Membrane For Bridge Decks.....	10.06	
34 05 43 00-0384    SF    Sheet Applied Waterproofing Membrane For Bridge Decks.....	2.82	
<b>34 05 43 00-0385</b> <b>Sealer And Overlay For Bridge Deck</b> <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes sweeping, cleaning and abrasive blasting.</i>		

**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0386 SY Shot Blasting Bridge Decks..... Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.	11.41	
34 05 43 00-0387 SY Thin Polymer (Epoxy) Overlay For Bridge Deck..... Note: Includes epoxy overlay applied in two coats with aggregate.	58.60	
34 05 43 00-0388 SY 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	115.73	
34 05 43 00-0389 SY 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	129.22	
34 05 43 00-0390 SY 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	160.69	
34 05 43 00-0391 SY 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	192.17	
34 05 43 00-0392 SY 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	223.64	
34 05 43 00-0393 SY 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck ..... Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	255.13	
<b>34 05 43 00-0394 Broadcast Silica Sand</b> (34 05 43 00-0377) Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand.....	0.23	
<b>34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck</b> (34 05 43 00-0377) See CSI section 01 22 23 00-1218 for water trucks, 01 22 23 00-1236 for vacuum sweeper trucks.		
<b>34 05 43 00-0397 Concrete Overlay For Bridge Deck</b> (34 05 43 00-0377) Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck .....	140.48	
For DOT Class DP, Add	26.70	
For DOT Class E, Add	8.71	
For DOT Class HP, Add	25.49	
<b>34 05 43 00-0399 Bridge Roadway Grooving</b> (34 05 43 00-0377)		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal .....	3,059.48	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal .....	4.96	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse .....	3,408.37	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse .....	6.46	
<b>34 05 43 00-0404 Gravity Fed Concrete Crack Repair</b> (34 05 43 00-0377) Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair.....	2.39	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair.....	2.83	
<b>34 05 43 00-0407 Concrete Pumping With Boom Truck</b> (34 05 43 00-0377) See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
<b>34 05 43 00-0408 Bridge Girder Repair</b> (34 05 43)		
<b>34 05 43 00-0409 Bridge Girder Repair</b> (34 05 43 00-0408) Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing..... Note: Does not include mileage to job site.	75.00	
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew .....	2,016.00	
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair .....	12.20	4.81
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	18.50	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.58	
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair .....	15.64	5.87
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	24.99	
For Aluminum, Add	1.41	
For Galvanized Steel, Add	4.84	
34 05 43 00-0414 LF 3" x 3" x 3/8" Angle Iron For Bridge Repair .....	15.71	5.41
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	27.20	
For Aluminum, Add	1.53	
For Galvanized Steel, Add	5.27	
34 05 43 00-0415 LF 4" x 4" x 3/8" Angle Iron For Bridge Repair .....	20.34	6.58
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	37.02	
For Aluminum, Add	2.08	
For Galvanized Steel, Add	7.17	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0416 LF 6" x 4" x 3/8" Angle Iron For Bridge Repair .....	26.01	8.59
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	46.59	
<i>For Aluminum, Add</i>	2.62	
<i>For Galvanized Steel, Add</i>	9.03	
34 05 43 00-0417 LF 6" x 6" x 3/8" Angle Iron For Bridge Repair .....	29.08	8.59
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	56.42	
<i>For Aluminum, Add</i>	3.17	
<i>For Galvanized Steel, Add</i>	10.93	
34 05 43 00-0418 LF 6" x 6" x 1/2" Angle Iron For Bridge Repair .....	38.56	11.53
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	74.21	
<i>For Aluminum, Add</i>	4.17	
<i>For Galvanized Steel, Add</i>	14.38	
34 05 43 00-0419 LF 7" x 4" x 5/8" Angle Iron For Bridge Repair .....	42.36	12.15
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	83.68	
<i>For Aluminum, Add</i>	4.71	
<i>For Galvanized Steel, Add</i>	16.21	
34 05 43 00-0420 LF 5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair .....	37.04	10.21
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	74.98	
<i>For Aluminum, Add</i>	4.22	
<i>For Galvanized Steel, Add</i>	14.53	
34 05 43 00-0421 LF 6" x 4" x 3/4" Angle Iron For Bridge Repair .....	44.15	12.16
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	89.38	
<i>For Aluminum, Add</i>	5.03	
<i>For Galvanized Steel, Add</i>	17.32	
34 05 43 00-0422 LF 7" x 4" x 3/4" Angle Iron For Bridge Repair .....	49.01	13.50
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	99.20	
<i>For Aluminum, Add</i>	5.58	
<i>For Galvanized Steel, Add</i>	19.22	
34 05 43 00-0423 LF 8" x 6" x 7/8" Angle Iron For Bridge Repair .....	71.35	18.81
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	148.06	
<i>For Aluminum, Add</i>	8.33	
<i>For Galvanized Steel, Add</i>	28.69	
34 05 43 00-0424 LF C4 x 5.4 - 4" Wide Channels For Bridge Repair .....	14.64	6.19
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	20.45	
<i>For Aluminum, Add</i>	1.15	
<i>For Galvanized Steel, Add</i>	3.96	
34 05 43 00-0425 LF C6 x 8.2 - 6" Wide Channels For Bridge Repair .....	21.25	8.66
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	31.04	
<i>For Aluminum, Add</i>	1.75	
<i>For Galvanized Steel, Add</i>	6.01	
34 05 43 00-0426 LF C8 x 11.5 - 8" Wide Channels For Bridge Repair .....	28.73	11.34
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	43.55	
<i>For Aluminum, Add</i>	2.45	
<i>For Galvanized Steel, Add</i>	8.44	
34 05 43 00-0427 LF C10 x 15.3 - 10" Wide Channels For Bridge Repair .....	38.21	15.08
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	57.92	
<i>For Aluminum, Add</i>	3.26	
<i>For Galvanized Steel, Add</i>	11.22	
34 05 43 00-0428 LF C12 x 20.7 - 12" Wide Channels For Bridge Repair .....	51.71	20.42
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	78.37	
<i>For Aluminum, Add</i>	4.41	
<i>For Galvanized Steel, Add</i>	15.18	
34 05 43 00-0429 LF C15 x 33.9 - 15" Wide Channels For Bridge Repair .....	84.69	33.43
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	128.35	
<i>For Aluminum, Add</i>	7.22	
<i>For Galvanized Steel, Add</i>	24.87	

**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair .....	40.32	13.16
For A50 Grade Steel, Add	1.32	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair .....	50.42	16.45
For A50 Grade Steel, Add	1.66	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair .....	60.50	19.64
For A50 Grade Steel, Add	1.99	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair .....	70.58	23.02
For A50 Grade Steel, Add	2.32	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair .....	80.66	26.31
For A50 Grade Steel, Add	2.65	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair .....	100.82	32.89
For A50 Grade Steel, Add	3.31	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair .....	110.90	36.18
For A50 Grade Steel, Add	3.64	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair .....	120.98	39.47
For A50 Grade Steel, Add	3.97	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36 .....	53.86	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For Removal Over 30' To 50', Add	10.77	
For Removal Over 50' To 75', Add	18.85	
For Removal Over 75', Add	26.93	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36 .....	718.27	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For Removal Over 30' To 50', Add	143.65	
For Removal Over 50' To 75', Add	251.39	
For Removal Over 75', Add	359.14	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36 .....	292.06	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For A50 Grade Steel, Add	47.64	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36 .....	4,628.16	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For A50 Grade Steel, Add	781.98	
Cutting Fee For I-beams, Floor Beams And Plates Over 5'x5', Add Per Each Piece	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter .....	30.06	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter .....	39.00	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8" .....	26.91	1.83
34 05 43 00-0445 EA Bridge Girder Rivet Removal .....	284.14	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	5.65	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	10.24	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	14.81	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	19.40	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	23.98	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting .....	28.57	
Note: Includes rust or scale removal.		
<b>34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces</b> <small>(34 05 43 00-0408)</small>		
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair .....	0.87	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	1.18	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.23	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair .....	1.74	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.16	
For >15,000 To 30,000, Deduct	-0.25	
For >30,000, Deduct	-0.34	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	2.90	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair .....	2.20	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 15,000, Deduct	-0.21	
For >15,000 To 30,000, Deduct	-0.32	
For >30,000, Deduct	-0.42	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair .....	2.72	
For Up To 100, Add	1.73	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.26	
For >15,000 To 30,000, Deduct	-0.40	
For >30,000, Deduct	-0.52	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair .....	3.53	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.45	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 15,000, Deduct	-0.33	
For >15,000 To 30,000, Deduct	-0.51	
For >30,000, Deduct	-0.68	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair .....	4.42	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.56	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 15,000, Deduct	-0.42	
For >15,000 To 30,000, Deduct	-0.64	
For >30,000, Deduct	-0.85	
<b>34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings</b> <small>(34 05 43 00-0408)</small>		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	6.91	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings .....	11.76	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	13.94	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	15.66	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	18.88	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	21.19	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	21.11	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	24.06	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	29.09	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	34.92	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	27.69	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	32.49	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	40.91	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	33.95	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	40.31	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	49.65	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	61.22	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	40.25	
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	47.87	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	59.04	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	72.75	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	48.08	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	57.24	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	70.69	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	87.01	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	57.88	

**34 Transportation**  
**34 05 Common Work Results For Transportation**  
**34 05 43 Common Work Results For Bridges**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	68.96	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	85.25	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings .....	104.87	
<b>34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)</b>		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair .....	1,356.87	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair .....	12.98	
<i>For Full Penetration Weld, Add</i> 4.99		
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair .....	19.48	
<i>For Full Penetration Weld, Add</i> 7.48		
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair .....	25.99	
<i>For Full Penetration Weld, Add</i> 9.97		
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair .....	32.46	
<i>For Full Penetration Weld, Add</i> 12.46		
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair .....	38.43	
<i>For Full Penetration Weld, Add</i> 14.96		
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair .....	45.10	
<i>For Full Penetration Weld, Add</i> 17.32		
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair .....	52.62	
<i>For Full Penetration Weld, Add</i> 20.40		
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair .....	58.02	
<i>For Full Penetration Weld, Add</i> 22.44		
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair .....	79.97	
<i>For Full Penetration Weld, Add</i> 30.67		
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair .....	105.31	
<i>For Full Penetration Weld, Add</i> 40.65		
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair .....	146.41	
<i>For Full Penetration Weld, Add</i> 56.10		
<b>34 05 43 00-0504 Bridge Trough Repair (34 05 43)</b>		
34 05 43 00-0505 EA New Bridge Trough Hanger .....	190.84	22.91
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/Or Bottom .....	55.25	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger .....	82.23	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger .....	59.85	
<b>34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)</b>		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor .....	80.00	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal .....	174.02	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal .....	43.51	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal .....	219.12	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal .....	54.78	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste .....	4.32	
34 05 43 00-0516 SF Flat Surfaces Spot Painting .....	46.07	
Note: Includes 1 coat primer and 2 coats finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal .....	1,023.07	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal .....	3.19	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
<b>34 05 43 00-0519 End Beam Cleaning And Painting (34 05 43)</b>		
34 05 43 00-0520 SF End Beam Cleaning and Painting .....	2.78	
Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
<i>For Up To 100, Add</i>		2.78
<i>For &gt;100 To 500, Add</i>		1.83
<i>For &gt;500 To 3,000, Add</i>		0.92
<i>For &gt;5,000 To 7,500, Deduct</i>		-0.49
<i>For &gt;7,500 To 10,000, Deduct</i>		-0.76
<i>For &gt;10,000, Deduct</i>		-1.11
<b>34 05 43 00-0521 Snow And Pedestrian Fences For Bridges (34 05 43)</b>		
<b>34 05 43 00-0522 Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0521)</b>		
Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
<b>34 05 43 00-0523 Galvanized Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0524 LF 4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	35.29	9.83
<i>For Posts 8' On Centers, Add</i>	1.98	
<i>For Posts 5' On Centers, Add</i>	7.50	
<i>For Up To 100, Add</i>	7.06	
<i>For &gt;100 To 250, Add</i>	2.65	
34 05 43 00-0525 LF >4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	38.37	10.31
<i>For Posts 8' On Centers, Add</i>	2.14	
<i>For Posts 5' On Centers, Add</i>	8.12	
<i>For Up To 100, Add</i>	7.62	
<i>For &gt;100 To 250, Add</i>	2.85	
34 05 43 00-0526 LF >5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	41.46	10.81
<i>For Posts 8' On Centers, Add</i>	2.31	
<i>For Posts 5' On Centers, Add</i>	8.73	
<i>For Up To 100, Add</i>	8.17	
<i>For &gt;100 To 250, Add</i>	3.05	
34 05 43 00-0527 LF >6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	43.68	11.29
<i>For Posts 8' On Centers, Add</i>	2.43	
<i>For Posts 5' On Centers, Add</i>	9.19	
<i>For Up To 100, Add</i>	8.59	
<i>For &gt;100 To 250, Add</i>	3.20	
34 05 43 00-0528 LF >7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	49.38	12.28
<i>For Posts 8' On Centers, Add</i>	2.73	
<i>For Posts 5' On Centers, Add</i>	10.33	
<i>For Up To 100, Add</i>	9.62	
<i>For &gt;100 To 250, Add</i>	3.58	
<b>34 05 43 00-0529 Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges</b> <small>(34 05 43 00-0522)</small>		
34 05 43 00-0530 LF 4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	36.99	9.83
<i>For Powder Coated, Add</i>	3.86	
<i>For Aluminum Coated, Add</i>	7.71	
<i>For Posts 8' On Centers, Add</i>	2.06	
<i>For Posts 5' On Centers, Add</i>	7.81	
<i>For Up To 100, Add</i>	7.32	
<i>For &gt;100 To 250, Add</i>	2.74	
34 05 43 00-0531 LF >4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	40.52	10.31
<i>For Powder Coated, Add</i>	4.38	
<i>For Aluminum Coated, Add</i>	8.77	
<i>For Posts 8' On Centers, Add</i>	2.25	
<i>For Posts 5' On Centers, Add</i>	8.50	
<i>For Up To 100, Add</i>	7.94	
<i>For &gt;100 To 250, Add</i>	2.96	
34 05 43 00-0532 LF >5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	45.82	10.81
<i>For Powder Coated, Add</i>	5.27	
<i>For Aluminum Coated, Add</i>	10.54	
<i>For Posts 8' On Centers, Add</i>	2.52	
<i>For Posts 5' On Centers, Add</i>	9.51	
<i>For Up To 100, Add</i>	8.82	
<i>For &gt;100 To 250, Add</i>	3.27	
34 05 43 00-0533 LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	48.74	11.29
<i>For Powder Coated, Add</i>	5.67	
<i>For Aluminum Coated, Add</i>	11.35	
<i>For Posts 8' On Centers, Add</i>	2.68	
<i>For Posts 5' On Centers, Add</i>	10.10	
<i>For Up To 100, Add</i>	9.35	
<i>For &gt;100 To 250, Add</i>	3.46	
34 05 43 00-0534 LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	55.29	12.28
<i>For Powder Coated, Add</i>	6.63	
<i>For Aluminum Coated, Add</i>	13.26	
<i>For Posts 8' On Centers, Add</i>	3.03	
<i>For Posts 5' On Centers, Add</i>	11.39	
<i>For Up To 100, Add</i>	10.51	
<i>For &gt;100 To 250, Add</i>	3.87	
<b>34 05 43 00-0535 Bridge Connection Mounting For Snow And Pedestrian Fence Assembly</b> <small>(34 05 43 00-0522)</small>		
34 05 43 00-0536 EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	44.14	
<i>Note: Includes drilling into steel post.</i>		
34 05 43 00-0537 EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	27.44	
34 05 43 00-0538 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint.....	66.51	
34 05 43 00-0539 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	70.01	
<i>Note: Includes drilling into steel post.</i>		



**34 Transportation****34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 05 43 00-0540 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts .....	98.59	
Note: Includes drilling into steel post.		

**34 10 Guideways/Railways** <sup>(34)</sup>**34 11 Rail Tracks** <sup>(34 10)</sup>**34 11 93 Track Appurtenances And Accessories** <sup>(34 11)</sup>**34 11 93 00-0001 Railroad Crossings** <sup>(34 11 93)</sup>**34 11 93 00-0002 Asphalt Railroad Crossings** <sup>(34 11 93 00-0001)</sup>

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003 EA 8" Asphalt Railroad Crossing, 12' Roadway 6 CY .....	1,800.98	284.17
34 11 93 00-0004 EA 8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY .....	2,118.37	322.06
34 11 93 00-0005 EA 8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY .....	2,500.95	378.89
34 11 93 00-0006 EA 8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY .....	2,970.14	454.67
34 11 93 00-0007 EA 8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY .....	3,590.87	568.35

**34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts** <sup>(34 11 93 00-0001)</sup>

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009 EA Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge .....	5,072.06	132.22
34 11 93 00-0010 EA Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge .....	6,340.07	160.55
34 11 93 00-0011 EA Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge .....	7,603.42	198.33
34 11 93 00-0012 EA Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge .....	8,867.94	226.66
34 11 93 00-0013 EA Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge .....	10,131.72	264.43

**34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers** <sup>(34 11 93 00-0001)</sup>

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015 EA Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers .....	2,675.07	132.22
34 11 93 00-0016 EA Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers .....	3,177.91	160.55
34 11 93 00-0017 EA Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers .....	3,676.07	198.33
34 11 93 00-0018 EA Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers .....	4,175.42	226.66
34 11 93 00-0019 EA Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers .....	4,674.01	264.43

**34 11 93 00-0020 Railroad Trackage Demolition** <sup>(34 11 93)</sup>

34 11 93 00-0021 CY Removal Of Railroad Track Ballast .....	7.79	
34 11 93 00-0022 LF Removal Of Railroad Track Rail And Spikes .....	19.48	
34 11 93 00-0023 EA Removal And Disposal Of Concrete Post Footings .....	110.55	
34 11 93 00-0024 EA Backfill Holes From Post Removal .....	46.07	

**34 40 Transportation Signaling and Control Equipment** <sup>(34)</sup>**34 41 Roadway Signaling and Control Equipment** <sup>(34 40)</sup>**34 41 13 Traffic Signals** <sup>(34 41)</sup>**34 41 13 00-0001 Traffic Signals** <sup>(34 41 13)</sup>

34 41 13 00-0002 EA Single Traffic Signal Head, 4 Way Pattern .....	5,080.12	657.32
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**34 41 13 00-0003 Traffic Detector Induction Loop** <sup>(34 41 13)</sup>

34 41 13 00-0004 EA 6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop .....	341.99	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0005 EA 6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop .....	426.74	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0006 EA 6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop .....	482.08	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0007 EA 6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop .....	418.98	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop .....	727.06	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop .....	893.91	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop .....	950.86	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop .....	1,181.23	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,265.30	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,362.38	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,465.09	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector.....	6.16	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.		
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector.....	2.81	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.		
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	175.66	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	471.62	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	297.97	
<b>34 41 13 00-0020 Overhead Traffic Signals <small>(34 41 13)</small></b>		
34 41 13 00-0021 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	4,058.91	876.42
34 41 13 00-0022 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	4,169.99	876.42
34 41 13 00-0023 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	4,320.27	876.42
34 41 13 00-0024 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	782.19	203.47
34 41 13 00-0025 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	847.53	203.47
34 41 13 00-0026 EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,061.85	203.47
34 41 13 00-0027 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	782.19	203.47
34 41 13 00-0028 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	847.53	203.47
34 41 13 00-0029 EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,061.85	203.47
34 41 13 00-0030 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	847.53	203.47
34 41 13 00-0031 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	847.53	203.47
34 41 13 00-0032 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,061.85	203.47
34 41 13 00-0033 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	782.19	203.47
34 41 13 00-0034 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	847.53	203.47
34 41 13 00-0035 EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,061.85	203.47
34 41 13 00-0036 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	782.19	203.47
34 41 13 00-0037 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	847.53	203.47
34 41 13 00-0038 EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,061.85	203.47
34 41 13 00-0039 EA Phase Selector, 2 Channel.....	2,239.75	25.44
34 41 13 00-0040 EA Phase Selector, 4 Channel.....	3,474.68	25.44
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller.....	1,147.18	50.86
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,147.18	50.86
34 41 13 00-0043 EA Time Switch, 1-Circuit.....	292.27	30.52
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	231.91	12.71
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	301.17	12.71
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	425.32	12.71
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	532.48	12.71
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	1,434.17	12.71
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	1,434.17	12.71
34 41 13 00-0050 EA Power Line Surge Protector.....	136.00	7.63
34 41 13 00-0051 EA Loop Detector Surge Protector.....	71.26	7.63
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	9,012.69	1,232.46
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	9,757.57	1,232.46
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	10,652.73	1,232.46
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	10,927.16	1,232.46
34 41 13 00-0056 EA Speed Limit Beacon Control Option.....	3,924.32	328.66
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet.....	4,581.63	657.32
34 41 13 00-0058 EA Remote Detector Cabinet.....	2,556.09	657.32
34 41 13 00-0059 EA Traffic Signal Hand Control.....	676.48	109.56
34 41 13 00-0060 EA Load Switch.....	66.23	7.63
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly.....	545.80	109.56
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module.....	835.64	203.47
34 41 13 00-0063 EA Field Transceiver-Repeater.....	381.51	50.86
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover.....	584.56	102.21
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	680.11	106.86
34 41 13 00-0066 EA 8" Pedestal With Base Plate And Cover.....	845.81	119.87
34 41 13 00-0067 EA 11" Pedestal With Base Plate And Cover.....	940.02	130.09
34 41 13 00-0068 EA 15" Pedestal With Base Plate And Cover.....	1,049.07	155.19
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.20	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.29	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.49	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.68	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.87	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.18	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.48	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.01	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable.....	0.49	0.09
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable.....	0.57	0.09
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable.....	1.04	0.09
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable.....	2.14	0.18
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles.....	2,356.03	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

34 41 13 00-0082	EA	4' Diameter x 16' Concrete Base For Poles ..... Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	3,754.23	
34 41 13 00-0083	EA	Internally Illuminated Street Name Sign, 1 Line, 4' .....	1,797.28	
34 41 13 00-0084	EA	Internally Illuminated Street Name Sign, 1 Line, 6' .....	2,220.46	273.88
34 41 13 00-0085	EA	Internally Illuminated Street Name Sign, 1 Line, 8' .....	2,434.57	328.66
34 41 13 00-0086	EA	Internally Illuminated Street Name Sign, 1 Line, 10' .....	2,753.21	383.43
34 41 13 00-0087	EA	Internally Illuminated Street Name Sign, 1 Line, 12' .....	2,967.30	438.21
34 41 13 00-0088	EA	Internally Illuminated Street Name Sign, 2 Line, 4' .....	2,785.22	219.10
34 41 13 00-0089	EA	Internally Illuminated Street Name Sign, 2 Line, 6' .....	3,433.17	273.88
34 41 13 00-0090	EA	Internally Illuminated Street Name Sign, 2 Line, 8' .....	3,720.46	328.66
34 41 13 00-0091	EA	Internally Illuminated Street Name Sign, 2 Line, 10' .....	4,164.55	383.43
34 41 13 00-0092	EA	Internally Illuminated Street Name Sign, 2 Line, 12' .....	4,483.19	438.21
34 41 13 00-0093	EA	Photoelectric Controller, Multi-Volt .....	72.51	26.45
34 41 13 00-0094	EA	Photoelectric Controller, 120 Volt .....	86.13	26.45
34 41 13 00-0095	EA	Photoelectric Controller, 480 Volt .....	86.13	26.45
34 41 13 00-0096	EA	Wi-Fi Communication Unit .....	936.53	109.56
34 41 13 00-0097	EA	Wi-Fi Communication Unit Mounting Bracket .....	229.67	82.16
34 41 13 00-0098	EA	Wi-Fi Communication Unit Power Supply / POE Injector .....	199.73	54.77
34 41 13 00-0099	EA	Wi-Fi Communication Unit Packet .....	1,694.59	164.33
34 41 13 00-0100	LF	Preemptor Detector Cable .....	1.91	
34 41 13 00-0101	EA	Sno-Shoe Cable Storage Assembly .....	180.30	
34 41 13 00-0102	EA	16' Pedestal With Base Plate And Cover .....	1,103.52	155.19
34 41 13 00-0103	EA	Vehicle Signal Face, LED, 1 - 12" Section .....	411.35	139.68
34 41 13 00-0104	EA	Vehicle Signal Face, LED, 2 - 12" Sections .....	654.44	197.20
34 41 13 00-0105	EA	Vehicle Signal Face, LED, 3 - 12" Sections .....	900.21	241.01
34 41 13 00-0106	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank .....	861.00	241.01
34 41 13 00-0107	EA	Vehicle Signal Face, LED, 4 - 12" Sections .....	1,124.86	268.40
34 41 13 00-0108	EA	Vehicle Signal Face, LED, 5 - 12" Sections .....	1,327.61	284.84
34 41 13 00-0109	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster .....	1,403.41	284.84
34 41 13 00-0110	EA	Vehicle Signal Face, LED, 1 - 8" Section .....	391.74	139.68
34 41 13 00-0111	EA	Vehicle Signal Face, LED, 2 - 8" Sections .....	615.24	197.20
34 41 13 00-0112	EA	Vehicle Signal Face, LED, 3 - 8" Sections .....	804.81	241.01
34 41 13 00-0113	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section .....	853.16	241.01
34 41 13 00-0114	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections .....	1,041.22	268.40
34 41 13 00-0115	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section .....	1,013.78	268.40
34 41 13 00-0116	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections .....	1,183.87	284.84
34 41 13 00-0117	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster .....	1,245.29	284.84
34 41 13 00-0118	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed .....	1,710.42	241.01
34 41 13 00-0119	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed .....	2,213.42	268.40
34 41 13 00-0120	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed .....	2,856.57	284.84
34 41 13 00-0121	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed .....	3,085.26	284.84
34 41 13 00-0122	EA	Bracket Signal Mounting Assembly .....	383.76	109.56
34 41 13 00-0123	EA	Mast Arm Signal Mounting Assembly .....	691.73	219.10
34 41 13 00-0124	EA	Top Pole Signal Mounting Assembly .....	245.35	82.16
34 41 13 00-0125	EA	Pedestrian Signal Head .....	681.50	164.33
34 41 13 00-0126	EA	Pedestrian Signal Insert .....	411.32	82.16
34 41 13 00-0127	EA	Audible Pedestrian Signal .....	977.90	
34 41 13 00-0128	EA	Junction Box, Pole Or Post Mounted .....	391.46	
34 41 13 00-0129	EA	Pedestrian Push Button .....	365.91	
34 41 13 00-0130	EA	Illuminated Sign, Bracket Mounted, Symbolic .....	2,737.28	
34 41 13 00-0131	EA	Illuminated Sign, Mast Arm Mounted, Symbolic .....	2,865.22	
34 41 13 00-0132	EA	Sign, Message, "BLANK OUT", Bracket Mounted .....	3,001.28	
34 41 13 00-0133	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted .....	3,196.90	
34 41 13 00-0134	EA	Sign, Fiber Optic, Bracket Mounted .....	3,401.35	
34 41 13 00-0135	EA	Sign, Fiber Optic, Mast Arm Mounted .....	3,601.14	
34 41 13 00-0136	EA	30' Type 15TS Signal And Lighting Standard .....	5,165.01	
		Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0137	EA	35' Type 21TS Signal And Lighting Standard .....	5,970.37	
		Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0138	EA	17' Type 18-2-100 Signal And Lighting Standard .....	2,940.21	
		Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0139	EA	17' Type 18-3-100 Signal And Lighting Standard .....	3,251.16	
		Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0140	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard .....	3,370.36	
		Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0141	EA	17' Type 23-3-100 Signal And Lighting Standard .....	3,370.36	
		Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0142	EA	17' Type 23-4-100 Signal And Lighting Standard .....	3,432.94	
		Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0143	EA	17' Type 27-3-100 Signal And Lighting Standard .....	3,745.84	
		Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0144	EA	17' Type 27-4-100 Signal And Lighting Standard .....	3,817.79	
		Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0145	EA	17' Type 28-5-100 Signal And Lighting Standard .....	3,965.33	
		Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0146	EA	17' Type 60-5-100 Signal And Lighting Standard .....	4,197.69	
		Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard .....	3,123.13	
		Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard .....	5,491.51	
		Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard.....	6,144.51	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard .....	6,394.82	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard .....	6,394.82	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard.....	7,183.31	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard.....	7,485.57	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard.....	7,802.93	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard.....	8,302.79	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard.....	6,379.66	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard .....	7,141.49	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard .....	7,433.53	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	7,433.53	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard .....	8,353.43	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard .....	8,706.06	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard .....	9,076.32	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard .....	9,659.48	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE .....	2,183.04	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE .....	2,294.46	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE .....	2,450.21	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE .....	3,263.90	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE .....	3,910.51	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE .....	4,192.38	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE .....	4,617.75	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE .....	5,240.11	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE .....	5,983.05	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE .....	6,488.07	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE .....	7,521.55	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm.....	754.65	
For High Rise Arm, Add	58.15	
For High Rise Straight Arm, Add	46.52	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm.....	978.37	
For High Rise Arm, Add	77.74	
For High Rise Straight Arm, Add	62.19	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm.....	1,224.00	
For High Rise Arm, Add	97.33	
For High Rise Straight Arm, Add	77.86	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm.....	1,702.10	
For High Rise Arm, Add	114.43	
For High Rise Straight Arm, Add	91.54	
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm.....	1,869.22	
For High Rise Arm, Add	134.95	
For High Rise Straight Arm, Add	107.96	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm.....	1,942.57	
For High Rise Arm, Add	150.50	
For High Rise Straight Arm, Add	120.40	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm.....	2,197.03	
For High Rise Arm, Add	179.73	
34 41 13 00-0182 EA 15' Tubular Aluminum Post .....	803.40	
34 41 13 00-0183 EA 17' Tubular Aluminum Post .....	858.58	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	957.51	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED .....	152.72	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	45.23	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE .....	216.49	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier .....	1,142.19	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier .....	2,132.11	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT .....	1,693.15	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted .....	612.62	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted .....	612.62	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	14,556.81	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	2,410.85	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US) .....	1,307.79	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125).....	6,838.33	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES) .....	3,177.35	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	5,478.95	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	208.61	

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL).....	1,456.88	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F).....	673.68	
Note: Excludes coring.		
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug.....	1,697.62	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	4,744.32	1.48
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	6,175.52	1.48
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles.....	3,723.51	1.48
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	4,744.32	1.48
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	6,175.52	1.48
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF.....	893.26	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted.....	1,251.02	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted.....	1,118.00	
34 41 13 00-0211 EA 12" FCV Visor.....	66.56	
34 41 13 00-0212 EA 8" FCV Visor.....	49.13	
34 41 13 00-0213 EA Eggcrate Visor.....	64.40	
34 41 13 00-0214 EA Pedestrian H/M.....	776.02	
34 41 13 00-0215 EA Pedestrian Audio.....	840.22	
34 41 13 00-0216 EA Adjustable Pushbutton.....	228.00	
34 41 13 00-0217 EA ADA Cap And Switch.....	275.96	
34 41 13 00-0218 EA 3 Section 12" Backplate.....	110.31	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate.....	162.87	
34 41 13 00-0220 EA 3 Section 8" Backplate.....	90.13	
34 41 13 00-0221 EA 12" Red LED Lenses.....	184.78	
34 41 13 00-0222 EA 12" Amber LED Lenses.....	196.78	
34 41 13 00-0223 EA 12" Green LED Lenses.....	328.34	
34 41 13 00-0224 EA 12" Red Arrow.....	183.82	
34 41 13 00-0225 EA 12" Amber Arrow.....	175.04	
34 41 13 00-0226 EA 12" Green Arrow.....	251.99	
34 41 13 00-0227 EA 8" Red.....	182.04	
34 41 13 00-0228 EA 8" Amber.....	175.55	
34 41 13 00-0229 EA 8" Green.....	207.56	
34 41 13 00-0230 EA Hand/Man.....	309.89	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T.....	378.58	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T.....	425.17	
34 41 13 00-0233 EA Frameworks, MAT MT.....	116.35	
34 41 13 00-0234 EA Frameworks, MAS MT.....	125.67	
34 41 13 00-0235 EA Frameworks, 3W PT TC.....	271.15	
34 41 13 00-0236 EA Frameworks, 2W PT TC.....	252.00	
34 41 13 00-0237 EA Frameworks, 2W SM TC.....	239.58	
34 41 13 00-0238 EA Frameworks, SV-1.....	161.32	
34 41 13 00-0239 EA Frameworks, TV-1.....	156.66	
34 41 13 00-0240 EA Type III Service Pedestal.....	2,845.67	
34 41 13 00-0241 EA Single Fuse Holder.....	31.24	
34 41 13 00-0242 EA Double Fuse Holder.....	70.35	
34 41 13 00-0243 EA Pullbox, 1-1/2" x 20" x 14".....	72.78	
34 41 13 00-0244 EA Pullbox, 5" x 28" x 18".....	96.57	
34 41 13 00-0245 EA Pullbox, 6" x 36" x 23".....	124.91	
34 41 13 00-0246 EA Pullbox Lids, FL9D.....	69.92	
34 41 13 00-0247 EA Pullbox Lids, FL30D.....	127.19	
34 41 13 00-0248 EA Pullbox Lids, FL36D.....	37.28	
34 41 13 00-0249 EA LED Enhanced Pedestrian Crossing Symbol Sign.....	1,221.70	92.92
Note: 2 required per system.		
34 41 13 00-0250 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	3,610.11	557.55
Note: 4 required per system.		
34 41 13 00-0251 EA Power Control Unit With Enclosure (Solar).....	11,803.21	371.70
Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0252 EA Power Control Unit With Enclosure (A/C).....	7,645.00	371.70
34 41 13 00-0253 EA Push Button Assembly With Sign.....	759.92	185.85
34 41 13 00-0254 EA Advanced Warning Signs.....	1,398.31	185.85
34 41 13 00-0255 EA 14' High Galvanized Steel Traffic Signal Pole.....	2,629.26	
Note: For mast arm.		
34 41 13 00-0256 EA 21' High Galvanized Steel Traffic Signal Pole.....	3,914.52	
Note: For mast arm.		
34 41 13 00-0257 EA 22' High Galvanized Steel Traffic Signal Pole.....	4,059.63	
Note: For mast arm and luminare arm.		
34 41 13 00-0258 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm.....	5,487.69	
Note: For mast arm and luminare arm.		
34 41 13 00-0259 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	5,738.76	
Note: For mast arm and luminare arm.		
34 41 13 00-0260 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,562.40	
34 41 13 00-0261 EA 30' High Galvanized Steel Traffic Signal Pole, Octafute.....	4,089.90	
34 41 13 00-0262 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	3,375.23	
34 41 13 00-0263 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	15,479.11	
34 41 13 00-0264 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA.....	17,979.69	

34 41 13 00-0265 Traffic Signal Cable (34 41 13)





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0266 LF 16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.68	0.76
34 41 13 00-0267 LF 16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	1.86	0.82
34 41 13 00-0268 LF 16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.03	0.87
34 41 13 00-0269 LF 16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.20	0.92
34 41 13 00-0270 LF 16 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	2.40	0.97
34 41 13 00-0271 LF 16 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	2.75	1.09
34 41 13 00-0272 LF 16 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	3.21	1.25
34 41 13 00-0273 LF 16 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	3.67	1.42
34 41 13 00-0274 LF 16 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	4.29	1.57
34 41 13 00-0275 LF 16 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	4.99	1.73
34 41 13 00-0276 LF 14 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.72	0.76
34 41 13 00-0277 LF 14 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	1.92	0.82
34 41 13 00-0278 LF 14 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.10	0.87
34 41 13 00-0279 LF 14 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.29	0.92
34 41 13 00-0280 LF 14 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	2.51	0.97
34 41 13 00-0281 LF 14 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	2.89	1.09
34 41 13 00-0282 LF 14 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	3.39	1.25
34 41 13 00-0283 LF 14 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	3.88	1.42
34 41 13 00-0284 LF 14 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	4.57	1.57
34 41 13 00-0285 LF 14 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	5.37	1.73
34 41 13 00-0286 LF 12 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.81	0.76
34 41 13 00-0287 LF 12 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.06	0.82
34 41 13 00-0288 LF 12 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.28	0.87
34 41 13 00-0289 LF 12 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.50	0.92
34 41 13 00-0290 LF 12 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	2.77	0.97
34 41 13 00-0291 LF 12 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	3.24	1.09
34 41 13 00-0292 LF 12 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	3.82	1.25
34 41 13 00-0293 LF 12 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	4.40	1.42
34 41 13 00-0294 LF 12 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	5.25	1.57
34 41 13 00-0295 LF 12 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	6.28	1.73
<b>34 41 13 00-0296 School Zone Flasher Beacons (34 41 13)</b>		
34 41 13 00-0297 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,561.93	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0298 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,586.75	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,008.22	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,087.67	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,442.81	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,754.14	166.21
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
<b>34 41 13 00-0303 Traffic Light Control Synchronization (34 41 13)</b>		
34 41 13 00-0304 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	3,133.55	
34 41 13 00-0305 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R).....	2,366.05	
34 41 13 00-0306 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	5,612.37	
34 41 13 00-0307 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT).....	3,752.82	
34 41 13 00-0308 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT).....	3,752.82	
34 41 13 00-0309 EA Solar Cabinet Assembly.....	10,413.89	
34 41 13 00-0310 EA Data Controller Interface Cable Assembly.....	432.25	
34 41 13 00-0311 EA 900 MHZ Splitter.....	474.00	
34 41 13 00-0312 EA 900 MHz Surge Suppressor.....	167.79	
34 41 13 00-0313 EA Surge-Radio Lead in Cable.....	105.37	
34 41 13 00-0314 EA 12DB GAIN YAGI Antenna.....	510.59	
34 41 13 00-0315 EA PELCO Antenna Mounting Bracket.....	359.13	
34 41 13 00-0316 MLF Coaxial Cable, LMR-400.....	2,563.14	
34 41 13 00-0317 EA Perle 16 Port Serial Server.....	3,002.27	
34 41 13 00-0318 EA Serial to Ethernet Card.....	1,471.64	
34 41 13 00-0319 EA 404 Stand Alone Modem (GDI 404).....	1,294.02	
<b>34 41 13 00-0320 Traffic Signal Controls (34 41 13)</b>		
34 41 13 00-0321 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,184.76	
34 41 13 00-0322 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	451.34	
34 41 13 00-0323 EA AccessBox for contract closure master card (CC-ACC).....	161.86	
34 41 13 00-0324 EA Flush Mount Wireless Sensor (ATT VSN240-F).....	628.25	
34 41 13 00-0325 EA Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	628.25	
34 41 13 00-0326 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX).....	97.81	
34 41 13 00-0327 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	261.64	

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 41 13 00-0328</b>			<b>Traffic Signal Devices</b> <small>(34 41 13)</small>		
34 41 13 00-0329	EA		12" Polycarbonate Signal Head Housing (McCain )	615.06	83.64
34 41 13 00-0330	EA		16" Polycarbonate Pedestrian Signal Housing (McCain )	326.00	65.05
34 41 13 00-0331	EA		Pedestrian Push Button Cap & Switch (McCain M31334)	286.39	120.80
34 41 13 00-0332	EA		Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	397.89	176.56
34 41 13 00-0333	EA		Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	307.88	139.39
34 41 13 00-0334	EA		16 Channel Conflict Monitor (McCain 2010 ECLIP)	887.66	60.40
34 41 13 00-0335	EA		LED Countdown Head (McCain GTX PS7-CFF1-VLA)	188.65	23.23
34 41 13 00-0336	EA		Traffic signal Video Detection Camera (Iteris RZ4-awdr)	1,990.04	102.21
34 41 13 00-0337	EA		Camera processor card (Iteris Edge Connect)	4,495.48	148.68
34 41 13 00-0338	EA		Wireless Broadband Radio (Encom BB58)	4,244.60	139.39
34 41 13 00-0339	EA		24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	2,814.66	111.51
34 41 13 00-0340	EA		Power Adapter (Mean Well DR-120-48)	116.28	34.84
34 41 13 00-0341	LF		14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452)	0.75	
34 41 13 00-0342	EA		Radar Detection System (Wavetronix Matrix)	8,316.95	353.11
34 41 13 00-0343	EA		Pedestrian Audio Push Button (Polara APS )	288.26	88.27
34 41 13 00-0344	EA		Opticom Infrared System - Detector (GTT 711)	665.08	82.89
34 41 13 00-0345	EA		Opticom Infrared System - Detector (GTT 721)	744.11	92.73
34 41 13 00-0346	EA		Opticom Infrared System - Detector (GTT 722)	1,036.38	129.16
34 41 13 00-0347	EA		Opticom Multimode Phase Selector (GTT 764)	3,232.54	76.40
34 41 13 00-0348	LF		Opticom GPS Installation Cable (GTT 1070)	0.89	
34 41 13 00-0349	EA		Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	557.34	
34 41 13 00-0350	EA		Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	590.95	
34 41 13 00-0351	EA		UPS Module (Alpha Technologies FXM 350) Note: For battery backup in traffic signal control cabinet	894.28	50.86
34 41 13 00-0352	EA		Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual) Note: To control flashing "School" signs	296.29	41.82
34 41 13 00-0353	LF		Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	6.31	0.43
34 41 13 00-0354	LF		Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	1.65	0.37
34 41 13 00-0355	EA		12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA)	101.05	41.82
34 41 13 00-0356	EA		12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA)	101.05	41.82
34 41 13 00-0357	EA		12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA)	101.05	41.82
34 41 13 00-0358	EA		12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA)	101.05	41.82
34 41 13 00-0359	EA		12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA)	101.05	41.82
34 41 13 00-0360	EA		12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA)	101.05	41.82
34 41 13 00-0361	EA		LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA)	290.36	106.86
34 41 13 00-0362	EA		EOC Switch (Actellis ML688)	3,356.13	330.64
34 41 13 00-0363	EA		Ethernet Extender Kit (ENABLE-IT 860 Pro)	896.79	76.30
34 41 13 00-0364	EA		#5 pull box lid (Concrete, Bolt down) (Christy N30T)	78.26	19.22
34 41 13 00-0365	EA		#5 pull box lid (Steel, Bolt down) (Christy N30-61J)	259.42	27.81
34 41 13 00-0366	EA		#6 pull box lid (Concrete, Bolt down) (Christy N36T)	94.97	19.22
34 41 13 00-0367	EA		#6 pull box lid (Steel, Bolt down) (Christy N36-61J)	311.14	27.81
34 41 13 00-0368	EA		Battery Back-up (Alpha FXM110 UPS)	2,109.53	101.74
34 41 13 00-0369	EA		Battery (Alpha AlphaCell 220GXL)	305.00	25.44
34 41 13 00-0370	EA		BBS Cabinet (Alpha SE48-1616)	2,490.93	228.91
34 41 13 00-0371	LF		Fiber 72 Strands (Corning 072ZU4-T3F22D20)	4.74	1.98
34 41 13 00-0372	LF		Fiber 12 Strands (Corning 012ZU4-T3F22D20)	2.11	0.91
34 41 13 00-0373	EA		FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE)	776.87	76.30
34 41 13 00-0374	EA		12" THREE SECTION HOUSING (McCain M22435)	533.78	50.86
34 41 13 00-0375	EA		12" FOUR SECTION HOUSING (McCain M30883)	692.65	76.30
34 41 13 00-0376	EA		12" FIVE SECTION HOUSING (McCain M31769)	800.66	76.30
34 41 13 00-0377	EA		12" CLUSTER, WITHOUT MAS (McCain M30987)	854.66	76.30
34 41 13 00-0378	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	533.78	50.86
34 41 13 00-0379	EA		NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polara iN250N0-B)	533.78	50.86
34 41 13 00-0380	EA		NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polara iCCU-C)	3,056.32	178.03
34 41 13 00-0381	EA		NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C)	158.87	25.44
34 41 13 00-0382	EA		NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C)	158.87	25.44
34 41 13 00-0383	EA		NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C)	346.32	38.15
34 41 13 00-0384	EA		12" Visor (McCain M19302)	31.15	10.18
34 41 13 00-0385	EA		LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256)	292.32	38.15
34 41 13 00-0386	EA		SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	479.78	50.86
34 41 13 00-0387	EA		CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	881.67	76.30
34 41 13 00-0388	EA		ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	479.78	50.86
34 41 13 00-0389	EA		HARN, SB1/SB2,COMM EXTENSION (McCain M48062)	104.86	25.44
34 41 13 00-0390	EA		ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489)	292.32	38.15
34 41 13 00-0391	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	533.78	50.86
34 41 13 00-0392	EA		242L ISOLATOR, EDI (McCain M56812)	104.86	25.44
34 41 13 00-0393	EA		EDI 222 DETECTOR (McCain M11407)	131.87	25.44
34 41 13 00-0394	EA		ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763)	2,090.50	127.17
34 41 13 00-0395	EA		GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2)	360.96	50.86
34 41 13 00-0396	EA		BBS BATTERY, ALPHACELL 165GXL (McCain M59884)	479.78	50.86
34 41 13 00-0397	EA		Battery Backup Cabinet Anonidize 44x26x12 (McCain M64438A)	989.68	76.30

**34 41 16 Traffic Control Equipment** (34 41)**34 41 16 00-0001 Transportation Control Equipment** (34 41 16)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0002 EA CONTROLLER/SL/POLE MTD/1-PHASE/100A .....	7,162.60	757.23
34 41 16 00-0003 EA CONTROLLER/SL/ON EMB POLE 1-PH/100A .....	7,249.82	800.83
34 41 16 00-0004 EA CONTROLLER, SL, 3-PHASE, 100A, BASE MTD .....	8,797.33	810.25
34 41 16 00-0005 EA CONTROLLER, SL, 3-PHASE, 200A, BASE MTD .....	10,462.69	983.78
34 41 16 00-0006 EA CONTROLLER/SL/BASE MTD/1-PHASE/100A .....	8,526.72	485.31
34 41 16 00-0007 EA CONTROLLER/SL/BASE MTD/1-PHASE/200A .....	9,452.09	531.33
34 41 16 00-0008 EA CONTROLLER, TS, 12-BAY, "M" CABINET .....	15,559.77	835.34
34 41 16 00-0009 EA CONTROLLER, TS, 12-BAY, "P" CABINET .....	16,569.73	925.72
34 41 16 00-0010 EA CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER .....	23,640.70	1,040.75
34 41 16 00-0011 EA CONTROLLER, TS, 16-BAY, "P" CABINET .....	18,763.24	985.97
34 41 16 00-0012 EA CONTROLLER, PEDESTRIAN CROSSING, ADD-IN .....	573.53	115.79
34 41 16 00-0013 EA CONCRETE BLOCK PEDESTAL .....	679.05	173.86
34 41 16 00-0014 WK MAINTAIN EXIST TS INSTALLATION .....	282.51	141.25
34 41 16 00-0015 EA INST SIGN BOARDS, ST. NAME .....	482.60	229.29
34 41 16 00-0016 EA F.O. ADD-IN FOR LOCAL CONTROLLER .....	7,891.10	318.09
34 41 16 00-0017 EA F.O. ADD-IN FOR MASTER CONTROLLER .....	18,989.54	477.26
34 41 16 00-0018 EA PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH) .....	623.81	13.24
34 41 16 00-0019 EA Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU) .....	357.42	13.24
<b>34 41 16 00-0020 Transportation Cabinets (34 41 16)</b>		
<b>34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)</b>		
34 41 16 00-0022 EA 50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures) .....	1,704.03	152.60
34 41 16 00-0023 EA 66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures) .....	7,005.42	152.60
34 41 16 00-0024 EA 46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures) .....	1,598.23	152.60
34 41 16 00-0025 EA 50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures) .....	1,704.03	152.60
34 41 16 00-0026 EA 60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures) .....	7,240.51	152.60
34 41 16 00-0027 EA 55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures) .....	1,128.04	152.60
<b>34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)</b>		
34 41 16 00-0029 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017) .....	4,047.55	178.03
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.		
<b>34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)</b>		
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S) .....	1,610.22	152.60
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S) .....	1,993.06	162.78
<b>34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)</b>		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i) .....	7,311.52	178.03
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) .....	7,311.52	178.03
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170) .....	3,806.29	
<b>34 41 16 00-0037 Traffic Control Equipment (34 41 16)</b>		
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24V, 15A Without Display (Morningstar PS-15) .....	211.46	50.86
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24V, 15A With Display (Morningstar PS-15M) .....	270.91	50.86
34 41 16 00-0040 EA ProStar PWM Charge Controller 12/24V, 30A With Display (Morningstar PS-30M) .....	308.67	50.86
34 41 16 00-0041 EA ProStar PWM Charge Controller 12/24V, 30A Without Display (Morningstar PS-30) .....	244.47	50.86
34 41 16 00-0042 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R) .....	1,956.34	557.55
34 41 16 00-0043 EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02) .....	87.11	25.44
34 41 16 00-0044 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141) .....	364.56	55.40
34 41 16 00-0045 EA Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003) .....	1,854.92	166.21
34 41 16 00-0046 EA Vehicle Detector, Power Supply, 24V DC 4 A (Wavetronix WX-CLK-204) .....	334.82	25.44
34 41 16 00-0047 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114) .....	473.78	25.44
34 41 16 00-0048 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104) .....	554.87	50.86
34 41 16 00-0049 EA Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005) .....	2,349.25	50.86
34 41 16 00-0050 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060) .....	332.41	166.21
34 41 16 00-0051 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060) .....	354.98	41.55
34 41 16 00-0052 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119) .....	316.23	55.40
34 41 16 00-0053 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120) .....	207.48	55.40
34 41 16 00-0054 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201) .....	213.99	25.44
34 41 16 00-0055 EA 24V DC 2 A, Wavetronix Smartsensor (Wavetronix WX-CLK-202) .....	256.28	25.44
34 41 16 00-0056 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250) .....	123.36	25.44
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200) .....	340.86	25.44
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222) .....	383.15	25.44
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304) .....	473.78	25.44
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301) .....	50.86	25.44
34 41 16 00-0061 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611) .....	322.27	55.40
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400) .....	2,258.42	557.55
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC) .....	43.81	15.26

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E) .....	632.37	61.04
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1) .....	622.58	76.30
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000) .....	192.93	25.44
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010) .....	138.98	25.44
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2) .....	284.01	25.44
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE) .....	142.63	25.44
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600) .....	64.61	25.44
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009) .....	464.24	50.86
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009) .....	464.24	50.86
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005) .....	856.95	50.86
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011) .....	856.95	50.86
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019) .....	307.16	50.86
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015) .....	427.99	50.86
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021) .....	427.99	50.86
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003) .....	355.49	50.86
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPV1 (Daktronics 0A-1248-0016) .....	5,844.47	203.47
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025) .....	256.28	25.44
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026) .....	480.14	40.69
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014) .....	425.77	40.69
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038) .....	474.10	40.69
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002) .....	292.85	40.69
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608) .....	856.95	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018) .....	1,068.41	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002) .....	947.58	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252) .....	1,310.08	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455) .....	1,068.41	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654) .....	1,068.41	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015) .....	585.08	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116) .....	585.08	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031) .....	585.08	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017) .....	585.08	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603) .....	856.95	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605) .....	856.95	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601) .....	856.95	50.86
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016) .....	313.20	50.86
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029) .....	361.53	50.86
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593) .....	1,008.00	50.86
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648) .....	1,008.00	50.86
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307) .....	403.82	50.86
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129) .....	169.79	30.52
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412) .....	332.92	30.52
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772) .....	332.92	30.52
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	483.96	30.52
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	820.70	50.86
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,098.62	50.86
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	736.12	50.86
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	494.45	50.86
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	204.45	50.86
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	5,844.47	203.47
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	427.99	50.86
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	81.07	25.44
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	99.19	25.44
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	554.87	50.86
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	554.87	50.86
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	713.94	50.94
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	713.94	50.94
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	3,727.99	50.94
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	913.50	50.94
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	135.53	25.44
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	451.67	50.94
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,129.51	50.94
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	258.13	50.86
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	577.27	50.86
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	175.12	12.73
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	2,182.07	101.74
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	146.76	25.44
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	1,956.38	50.86
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	4,748.50	251.80
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	665.58	132.25
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	19.66	8.13
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	1,637.43	101.74
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	38.02	8.13
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	1,428.33	55.40
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	98.94	38.66
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	249.85	50.86
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	400.45	13.24
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	431.01	13.24
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	236.64	20.35
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	2,830.99	122.08
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	113.54	23.40
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	28.50	5.09
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,747.20	50.86
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	3,511.94	101.74
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	2,137.88	167.87
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	633.62	290.96
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	442.19	203.47
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	84.54	27.47
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	62.42	18.31
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	51.49	18.31
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	51.49	18.31
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	258.13	50.86
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	200.70	25.47
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	1,763.52	25.47
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	345.70	13.24
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	7,056.13	166.21
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	295.30	55.40

### 34 70 Transportation Construction And Equipment <sup>(34)</sup>

#### 34 71 Roadway Construction <sup>(34 70)</sup>

##### 34 71 13 Vehicle Barriers <sup>(34 71)</sup>

##### 34 71 13 13 Vehicle Median Barriers <sup>(34 71 13)</sup>

##### 34 71 13 13-0001 Concrete Median Barrier <sup>(34 71 13 13)</sup>

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	62.72	3.42
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	95.94	3.42



<b>34</b>	<b>Transportation</b>
<b>34 70</b>	<b>Transportation Construction And Equipment</b>
<b>34 71</b>	<b>Roadway Construction</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	130.66	3.42
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	43.48	5.48
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	35.13	2.74
<b>34 71 13 16 Vehicle Crash Barriers (34 71 13)</b>		
34 71 13 16-0001 Impact Barrier, Non-Redirective (34 71 13 16)		
34 71 13 16-0002 Sand Barrel Impact Attenuator (34 71 13 16-0001) Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	627.28	42.42
34 71 13 16-0004 EA 1400 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	580.86	49.80
34 71 13 16-0005 EA 2100 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	625.46	57.18
34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator (34 71 13 16-0001)		
34 71 13 16-0007 LB Sand for Sand Barrels.....	0.08	
<b>34 71 13 26 Vehicle Guide Rails (34 71 13)</b>		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew..... Note: Excludes equipment mobilization.	1,069.52	
34 71 13 26-0003 Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004 Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	15.00	1.91
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	16.17	1.91
34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing.....	19.59	1.91
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	21.21	1.91
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End..... Note: Treatment for mall barriers driveways, walkways, special end, etc.	50.24	1.91
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End..... Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.	54.82	1.91
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	113.26	25.21
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	119.52	25.21
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	150.80	25.21
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	157.05	25.21
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section.....	150.80	25.21
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	157.05	25.21
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003) Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	3,803.60	155.10
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket.....	3,178.07	155.10
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	3,803.60	155.10
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	566.63	73.11
34 71 13 26-0025 EA Terminal Support System, Type SFT.....	689.38	195.50
34 71 13 26-0026 EA Terminal Support System, Type ET.....	3,158.85	553.31
34 71 13 26-0027 EA Terminal Support System, Type SRT.....	3,400.85	553.31
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	116.46 -5.00 3.28	12.28
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	122.72 -5.00 3.28	12.28
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	128.98 -5.00 3.28	12.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail ..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	135.23 -5.00 3.28	12.28
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	116.46 -5.00 3.28	12.28
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post..... <i>For Installation In Rock, Add</i>	166.51 3.28	12.28
<b>34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts</b> (34 71 13 26-0003) Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide ..... 116.46	116.46	12.28
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide..... 122.72	122.72	12.28
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide ..... 128.98	128.98	12.28
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail..... 135.23 Note: For heavy post blocked out corrugated beam guide (rustic)	135.23	12.28
34 71 13 26-0040 EA Type A Post 1630mm Post ..... 113.34 Note: For heavy post blocked out corrugated beam guide rail	113.34	12.28
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic) ..... 119.59 Note: For heavy post blocked out corrugated beam guide rail	119.59	12.28
34 71 13 26-0042 EA Type B Post 1460mm ..... 107.08 Note: For heavy post blocked out corrugated beam guide rail	107.08	12.28
34 71 13 26-0043 EA Type B Post 1460mm (Rustic) ..... 113.34 Note: For heavy post blocked out corrugated beam guide rail	113.34	12.28
34 71 13 26-0044 EA Type C Post 1290mm ..... 100.83 Note: For heavy post blocked out corrugated beam guide rail	100.83	12.28
34 71 13 26-0045 EA Type C Post 1290mm (Rustic) ..... 107.08 Note: For heavy post blocked out corrugated beam guide rail	107.08	12.28
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube..... 430.23	430.23	12.28
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam ..... 47.66 Note: For heavy post blocked out corrugated beam guide rail.	47.66	12.28
<b>34 71 13 26-0048 Corrugated Beam Guide Rail Accessories</b> (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C ..... 100.75	100.75	28.65
<b>34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail</b> (34 71 13 26-0003) Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post ..... 11.19	11.19	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail..... 38.20	38.20	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post ..... 6.49	6.49	
<b>34 71 13 26-0054 Corrugated Thrie Beam Guide Railing</b> (34 71 13 26-0003)		
<b>34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections</b> (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing ..... 35.15	35.15	2.41
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic) ..... 37.05	37.05	2.41
<b>34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved</b> (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing ..... 42.77	42.77	2.41
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic) ..... 44.68	44.68	2.41
<b>34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts</b> (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail ..... 140.83 <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	140.83 -5.00 7.00	2.41
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail..... 147.08 <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	147.08 -5.00 7.00	2.41
<b>34 71 13 26-0064 Timber Guide Rails</b> (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
<b>34 71 13 26-0065 Timber Guide Rail Posts</b> (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post..... 71.33	71.33	9.54
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post..... 80.78	80.78	9.54
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post..... 154.84	154.84	9.54
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post..... 163.68	163.68	9.54
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post..... 188.85	188.85	9.54
<b>34 71 13 26-0071 Timber Guide Rails</b> (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail..... 8.84	8.84	1.15

<b>34</b>	<b>Transportation</b>
<b>34 70</b>	<b>Transportation Construction And Equipment</b>
<b>34 71</b>	<b>Roadway Construction</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	12.24	1.15
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	14.23	1.15
<b>34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)</b>		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails.....	11.51	1.53
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails.....	13.15	1.53
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails.....	15.23	1.53
<b>34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)</b>		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	15.54	0.96
<b>34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)</b>		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	110.93	13.37
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	70.07	9.54
<b>34 71 13 26-0084 Cable Guide Rail (34 71 13 26)</b>		
<b>34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)</b>		
34 71 13 26-0086 LF Cable (Each Cable)..... Note: Includes tensioning. Excludes splices.	8.09	2.06
34 71 13 26-0087 EA Cable Splice With Wedges.....	206.76	14.33
<b>34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084)</b>		
Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 10.92	148.41	40.94
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 10.92	154.66	40.94
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 10.92	154.66	40.94
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 10.92	160.92	40.94
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit.....	96.89	16.38
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate..... Note: For anchor unit.	253.28	16.38
<b>34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)</b>		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors.....	467.84	191.37
34 71 13 26-0097 EA Turnbuckle Cable End Assembly.....	137.86	9.57
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors.....	444.22	4.75
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	456.73	4.75
34 71 13 26-0100 EA Breakaway Anchor Angle.....	175.39	9.57
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	81.41	4.75
34 71 13 26-0102 EA Driveway End Post Cap Assembly.....	68.90	4.75
34 71 13 26-0103 EA End Post Ground Support Plates.....	37.63	4.75
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	32.93	4.75
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	39.19	4.75
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	45.45	4.75
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	388.07	9.57
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	413.09	9.57
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	275.47	9.57
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	168.99	4.75
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	175.39	9.57
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	187.99	14.33
<b>34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)</b>		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly..... Note: For use with slip impact post.	312.23	13.67
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device)..... Note: For use with slip impact post.	612.48	13.67
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System.....	180.87	13.67
34 71 13 26-0117 EA Cable End Assembly Rod..... Note: Includes cable end, threaded rod and keeper to anchor angle.	149.59	13.67
<b>34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)</b>		
Note: All tasks include associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.27	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing.....	7.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	54.58	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable)..... Note: Includes retensioning. Excludes splices.	3.41	
<b>34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)</b>		
<b>34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)</b>		
<b>34 71 13 26-0125 Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)</b>		
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices.	42.30	2.41
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices.	48.02	2.41
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
<b>34 71 13 26-0128 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)</b>		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices.	64.22	2.41
<i>For Shop Curved At &lt;20' Radius, Add</i>	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices.	69.94	2.41
<i>For Shop Curved At &lt;20' Radius, Add</i>	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
<b>34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)</b>		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	663.73	28.65
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic)..... Note: Excludes splices.	732.54	28.65
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized..... Note: Excludes splices.	626.20	28.65
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	651.22	28.65
<b>34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)</b>		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail.....	178.88	42.52
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic).....	222.67	42.52
<b>34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123)</b>		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	154.66	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing..... <i>For Installation Without Soil Plate, Deduct</i>	160.92	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	167.18	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	173.43	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0144 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i>	148.41	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0145 EA Type I End Assembly Post (Rustic)..... <i>For Installation Without Soil Plate, Deduct</i>	154.66	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0146 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i>	142.15	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
34 71 13 26-0147 EA Type II End Assembly Post (Rustic)..... <i>For Installation Without Soil Plate, Deduct</i>	148.41	40.94
<i>For Installation In Rock, Add</i>	-5.00	
	10.92	
<b>34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)</b>		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate.....	86.52	8.60
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic).....	92.78	8.60
<b>34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)</b>		
Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post.....	3.77	
34 71 13 26-0153 LF Reset Box Beam Guide Rail.....	11.01	

**34 Transportation****34 70 Transportation Construction And Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices .....	71.52	8.60
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices .....	77.24	8.60
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized .....	86.55	8.60
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0161 LF Shop Curved Box Beam Median Barrier Rustic .....	105.32	8.60
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0162 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized .....	2,158.75	28.65
Note: Excludes splices and post.		
34 71 13 26-0164 EA Box Beam Median Barrier Type A End Treatment Section (Rustic) .....	2,208.79	28.65
Note: Excludes splices and post.		
34 71 13 26-0165 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized .....	2,158.75	28.65
Note: Excludes splices and post.		
34 71 13 26-0166 EA Box Beam Median Barrier Type B End Treatment Section (Rustic) .....	2,208.79	28.65
Note: Excludes splices and post.		
34 71 13 26-0167 Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168 EA Splice for Box Beam Median Barrier .....	168.18	22.92
34 71 13 26-0169 EA Splice for Box Beam Median Barrier (Rustic) .....	262.01	22.92
34 71 13 26-0170 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
Note: Includes all associated hardware.		
34 71 13 26-0171 EA Standard Post for Box Beam Median Barrier .....	154.66	40.94
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0172 EA Standard Post (Rustic) for Box Beam Median Barrier .....	160.92	40.94
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0173 EA Extra Long Post for Box Beam Median Barrier .....	167.18	40.94
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0174 EA Extra Long Post (Rustic) for Box Beam Median Barrier .....	173.43	40.94
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0175 EA Type B End Treatment or Rub Back Anchor Post for Box Beam .....	142.15	40.94
Note: For median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0176 EA Type B End Treatment or Rub Back Anchor Post (Rustic) .....	142.15	40.94
Note: For box beam median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0177 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete .....	167.18	40.94
Note: For median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0178 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier .....	173.43	40.94
Note: For Concrete median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.92	
34 71 13 26-0179 Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180 EA Box Beam Median Barrier End Cover Plate .....	108.75	20.17
34 71 13 26-0181 EA Box Beam Median Barrier End Cover Plate (Rustic) .....	115.01	20.17
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
Note: For existing guide rail.		
34 71 13 26-0183 LF Removal And Storage Of Box Beam Median Barrier and Posts .....	3.90	
34 71 13 26-0184 LF Reset Box Beam Median Barrier .....	11.53	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 71 13 26-0185 Universal Guide Rail Items</b> <small>(34 71 13 26)</small>		
<b>34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail</b> <small>(34 71 13 26-0185)</small>		
<small>Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.</small>		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit.....	612.42	
<small>For Each Additional Set Of Anchor Rods, Add</small>	38.00	
34 71 13 26-0188 EA Reset Existing Anchorage Unit for All Types of Guide Rail.....	438.08	
<small>Note: Includes excavation and backfill.</small>		
34 71 13 26-0189 EA Removal Of Guide Rail Concrete Anchor Unit.....	458.06	
<b>34 71 13 26-0190 Guide Rail Repair For All Types Of Existing Guide Rail</b> <small>(34 71 13 26-0185)</small>		
<small>Note: All tasks include associated hardware.</small>		
34 71 13 26-0191 EA Straighten And Reset Driven Post For Guide Rail.....	54.58	
34 71 13 26-0192 EA Straighten And Reset Post Mounted On Concrete For Guide Rail.....	63.59	
<small>Note: With base plate for guide rail. Includes new anchor bolts.</small>		
<b>34 71 13 26-0193 Additional Wood and Steel Posts</b> <small>(34 71 13 26-0185)</small>		
34 71 13 26-0194 LF 4" x 6" Wood Post.....	47.94	13.68
<small>For Installation In Rock, Add</small>	3.65	
34 71 13 26-0195 LF 6" x 8" Wood Post.....	57.32	13.68
<small>For Installation In Rock, Add</small>	3.65	
34 71 13 26-0196 LF 6" x 7/8" Galvanized Steel Post.....	35.95	13.68
<small>For Installation In Rock, Add</small>	3.65	
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	333.71	13.67
<b>34 71 13 26-0198 Accessories For All Types of Guide Rail</b> <small>(34 71 13 26-0185)</small>		
34 71 13 26-0199 EA Reflector For Guard Rail.....	40.74	
<b>34 71 13 26-0200 Resilient Guard Fence And Light Shield</b> <small>(34 71 13 26)</small>		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High.....	58.59	5.90
<b>34 71 13 26-0202 Individual Concrete Guard Rail Posts</b> <small>(34 71 13 26)</small>		
34 71 13 26-0203 EA 6'-5" Concrete Guard Rail Posts, Round.....	81.95	5.90
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	91.60	6.64
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular.....	89.07	6.64
<b>34 71 13 26-0206 Guide Rail Transitions</b> <small>(34 71 13 26)</small>		
<b>34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam</b> <small>(34 71 13 26-0206)</small>		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	630.48	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate.....	380.27	
<small>Note: For making cable connections.</small>		
<b>34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median</b> <small>(34 71 13 26-0206)</small>		
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section.....	642.99	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate.....	380.27	
<small>Note: For making cable connections.</small>		
<b>34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail</b> <small>(34 71 13 26-0206)</small>		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate.....	88.07	15.27
<b>34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier</b> <small>(34 71 13 26-0206)</small>		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	880.69	
<b>34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier</b> <small>(34 71 13 26-0206)</small>		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	567.92	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	724.31	
<b>34 71 13 26-0220 Transition Railing (Monterey County)</b> <small>(34 71 13 26)</small>		
<small>Note: Complete with rail, posts, transition and bolts.</small>		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County).....	2,887.55	1.91
<b>34 71 16 Impact Attenuating Devices</b> <small>(34 71)</small>		
<b>34 71 16 00-0001 Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16)</small>		
<small>Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.</small>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>34 71 16 00-0002</b>	<b>24" Wide Guard Rail Energy Absorbing Terminals</b> (34 71 16 00-0001)		
34 71 16 00-0003	EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	25,494.64	2,780.85
34 71 16 00-0004	EA 24" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	35,331.19	3,707.80
34 71 16 00-0005	EA 24" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	48,123.28	4,866.49
34 71 16 00-0006	EA 24" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	53,793.38	6,025.18
<b>34 71 16 00-0007</b>	<b>30" Wide Guard Rail Energy Absorbing Terminals</b> (34 71 16 00-0001)		
34 71 16 00-0008	EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	27,518.81	3,128.46
34 71 16 00-0009	EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	38,241.96	4,171.28
34 71 16 00-0010	EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	52,404.59	5,561.71
34 71 16 00-0011	EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	60,188.96	6,720.39
<b>34 71 16 00-0012</b>	<b>36" Wide Guard Rail Energy Absorbing Terminals</b> (34 71 16 00-0001)		
34 71 16 00-0013	EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	29,564.38	3,476.07
34 71 16 00-0014	EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	41,173.53	4,634.75
34 71 16 00-0015	EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	56,202.35	6,141.05
34 71 16 00-0016	EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	66,562.39	7,415.60
<b>34 71 16 00-0017</b>	<b>69" Wide Guard Rail Energy Absorbing Terminals</b> (34 71 16 00-0001)		
34 71 16 00-0018	EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	32,043.66	3,823.67
34 71 16 00-0019	EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	44,274.14	5,098.23
34 71 16 00-0020	EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	60,675.05	6,720.39
34 71 16 00-0021	EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	71,539.96	8,110.82
<b>34 71 16 00-0022</b>	<b>90" Wide Guard Rail Energy Absorbing Terminals</b> (34 71 16 00-0001)		
34 71 16 00-0023	EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	34,585.78	4,171.28
34 71 16 00-0024	EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	47,448.67	5,561.71
34 71 16 00-0025	EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	65,759.30	7,415.60
34 71 16 00-0026	EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	76,647.83	8,806.03
<b>34 71 19</b>	<b>Vehicle Delineators</b> (34 71)		
<b>34 71 19 16</b>	<b>Flexible Vehicle Delineators</b> (34 71 19)		
34 71 19 16-0001	EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	63.39	7.38
34 71 19 16-0002	EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	64.16	7.38
34 71 19 16-0003	EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	64.94	7.38
34 71 19 16-0004	EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	65.72	7.38
<b>34 80</b>	<b>Bridges</b> (34)		
<b>34 82</b>	<b>Bridge Specialties</b> (34 80)		
<b>34 82 23</b>	<b>Bridge Railing</b> (34 82)		
<b>34 82 23 00-0001</b>	<b>Metal Bridge Railing</b> (34 82 23)		
	Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF 2" x 2" x 1/8" Bridge Railing.....	35.90	3.18
34 82 23 00-0003	LF 3" x 3" x 5/16" Bridge Railing.....	64.16	4.96
34 82 23 00-0004	LF 5" x 3" x 1/4" Bridge Railing.....	81.04	7.26
34 82 23 00-0005	LF 6" x 6" x 3/16" Bridge Railing.....	106.17	9.15
34 82 23 00-0006	LF 5" Outside Diameter x 1/4" Bridge Railing.....	86.71	7.05
<b>34 82 23 00-0007</b>	<b>Bridge Post</b> (34 82 23)		
	Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA 6" x 9" x 5'-6" Bridge Post.....	156.38	40.65
34 82 23 00-0009	EA 6" x 9" x 7' Bridge Post.....	201.22	43.19
34 82 23 00-0010	EA Two Rail With Base Plate Bridge Post Assembly.....	484.66	76.21
34 82 23 00-0011	EA Two Rail With Curb Bridge Post Assembly.....	606.31	81.28
34 82 23 00-0012	EA Two Rail (Curbless) Bridge Post Assembly.....	546.78	81.28
34 82 23 00-0013	EA Two Rail With Optional Handrail Bridge Post Assembly.....	673.51	81.28
34 82 23 00-0014	EA Three Rail With Base Plate Bridge Post Assembly.....	500.31	81.28
34 82 23 00-0015	EA Three Rail With Curb Bridge Post Assembly.....	706.07	83.82
34 82 23 00-0016	EA Three Rail (Curbless) Bridge Post Assembly.....	690.38	83.82
34 82 23 00-0017	EA Three Rail With Optional Handrail Bridge Post Assembly.....	868.58	83.82
34 82 23 00-0018	EA Four Rail (Curbless) With Base Plate Bridge Post.....	560.01	86.37
34 82 23 00-0019	EA Four Rail With Base Plate (Sidewalk Type) Bridge Post.....	560.17	86.37
34 82 23 00-0020	EA Four Rail With Curb Bridge Post Assembly.....	878.67	86.37
34 82 23 00-0021	EA Four Rail (Curbless) Bridge Post Assembly.....	904.55	86.37
34 82 23 00-0022	EA Five Rail With Base Plate (Curbless) Bridge Post Assembly.....	627.14	91.44
<b>34 82 23 00-0023</b>	<b>Bridge Railing Splices</b> (34 82 23)		
	Note: Includes hardware for splices.		



<b>Transportation</b>	<b>34</b>	<b>34</b>
<b>Bridges</b>	<b>34 80</b>	
<b>Bridge Specialties</b>	<b>34 82</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0024 EA 5" Outside Diameter Bridge Railing Splice.....	276.71	19.66
34 82 23 00-0025 EA 5" x 3" Bridge Railing Splice.....	159.41	17.21
34 82 23 00-0026 EA 3" x 3" Bridge Railing Splice.....	96.49	12.29
34 82 23 00-0027 EA 2" x 2" Bridge Railing Splice.....	46.72	8.85
34 82 23 00-0028 EA 5" x 5" x 3' Expansion Splice Tube.....	206.28	19.02
34 82 23 00-0029 EA 4" x 2" x 3' Expansion Splice Bar.....	220.83	19.02
34 82 23 00-0030 EA 5" x 5" x 2' Fixed Splice Tube.....	187.15	19.02
34 82 23 00-0031 EA 4" x 2" x 2' Fixed Splice Bar.....	192.40	19.02
34 82 23 00-0032 EA 6" x 6" x 3/16" Box x 9' Flare Tube.....	278.52	25.68
<b>34 82 23 00-0033 Transition For Bridge Railing (34 82 23)</b>		
Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034 EA Two Rail Box Beam To Bridge Transition With Splices.....	1,136.62	101.61
34 82 23 00-0035 EA Three Rail Box Beam To Bridge Transition With Splices.....	1,210.83	106.68
34 82 23 00-0036 EA Four Rail Box Beam To Bridge Transition With Splices.....	1,422.85	111.77
34 82 23 00-0037 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	473.38	50.80
34 82 23 00-0038 EA 6" x 6" x 22' Bottom Transition Tube.....	589.39	55.88
34 82 23 00-0039 EA 8" x 6" x 16-1/2' Bottom Transition Tube.....	559.01	50.80
34 82 23 00-0040 EA 6" x 6" x 16-1/2' Top Transition Tube.....	486.25	50.80
34 82 23 00-0041 EA 6" x 6" x 21-1/2' Top Transition Tube.....	578.75	55.88
34 82 23 00-0042 EA 8" x 6" x 16-1/2' Top Transition Tube.....	574.99	50.80
34 82 23 00-0043 EA 6" x 6" x 16-1/2' Middle Transition Tube.....	455.73	50.80
34 82 23 00-0044 EA 8" x 6" x 16-1/2' Middle Transition Tube.....	567.00	50.80
<b>34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing (34 82 23)</b>		
34 82 23 00-0046 EA 14" x 14" Bridge Railing Anchor Plate.....	50.55	4.92
34 82 23 00-0047 EA 18" x 22" Deck Anchor Plate.....	309.06	24.58
34 82 23 00-0048 EA 2" x 2" Bridge Railing End Cap.....	42.24	2.46
34 82 23 00-0049 EA 3" x 3" Bridge Railing End Cap.....	25.71	2.46
34 82 23 00-0050 EA 5" O.D Bridge Railing End Cap.....	25.51	2.46
<b>34 82 26 Bridge Slope Protection (34 82)</b>		
<b>34 82 26 00-0001 Bridge Slope Protection (34 82 26)</b>		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	11.83	4.84
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	13.87	5.34
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	15.22	5.67

**END OF SECTION 34**

34	<b>34</b>	<b>Transportation</b>
	34 80	Bridges
	34 82	Bridge Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction <sup>(35)</sup>

35 05 70 Common Work Results for Dams <sup>(35 05)</sup>

35 05 70 00-0001 Rubber Dam Repair <sup>(35 05 70)</sup>

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes) .....	27.91
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage) .....	54.73
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage) .....	80.91
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material .....	89.77

**END OF SECTION 35**



**35 Waterway and Marine Construction**

**35 05 Common Work Results for Waterway and Marine Construction**

35 05 70 Common Work Results for Dams



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 40 Process Interconnections

### 40 05 Common Work Results For Process Interconnections <sup>(40)</sup>

#### 40 05 19 Ductile Iron Process Pipe <sup>(40 05)</sup>

40 05 19 00-0001	<b>Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping</b> <sup>(40 05 19)</sup> <small>Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.</small>		
40 05 19 00-0002	<b>Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0001)</small>		
40 05 19 00-0003	<b>4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	519.85	180.38
	For Class 52 Rating, Deduct	-27.12	
	For Class 54 Rating, Add	18.49	
	For Class 55 Rating, Add	41.10	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	551.01	183.53
	For Class 52 Rating, Deduct	-30.02	
	For Class 54 Rating, Add	20.47	
	For Class 55 Rating, Add	45.50	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	582.16	186.68
	For Class 52 Rating, Deduct	-32.93	
	For Class 54 Rating, Add	22.45	
	For Class 55 Rating, Add	49.90	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	613.32	189.84
	For Class 52 Rating, Deduct	-35.83	
	For Class 54 Rating, Add	24.43	
	For Class 55 Rating, Add	54.29	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	644.48	192.99
	For Class 52 Rating, Deduct	-38.73	
	For Class 54 Rating, Add	26.41	
	For Class 55 Rating, Add	58.69	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	675.64	196.14
	For Class 52 Rating, Deduct	-41.63	
	For Class 54 Rating, Add	28.38	
	For Class 55 Rating, Add	63.09	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	706.80	199.29
	For Class 52 Rating, Deduct	-44.53	
	For Class 54 Rating, Add	30.36	
	For Class 55 Rating, Add	67.49	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	737.95	202.45
	For Class 52 Rating, Deduct	-47.43	
	For Class 54 Rating, Add	32.34	
	For Class 55 Rating, Add	71.88	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	769.11	205.60
	For Class 52 Rating, Deduct	-50.34	
	For Class 54 Rating, Add	34.32	
	For Class 55 Rating, Add	76.28	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	800.27	208.75
	For Class 52 Rating, Deduct	-53.24	
	For Class 54 Rating, Add	36.30	
	For Class 55 Rating, Add	80.68	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	831.43	211.91
	For Class 52 Rating, Deduct	-56.14	
	For Class 54 Rating, Add	38.28	
	For Class 55 Rating, Add	85.08	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	862.59	215.06
	For Class 52 Rating, Deduct	-59.04	
	For Class 54 Rating, Add	40.26	
	For Class 55 Rating, Add	89.47	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	893.75	218.21
	For Class 52 Rating, Deduct	-61.94	
	For Class 54 Rating, Add	42.23	
	For Class 55 Rating, Add	93.87	
40 05 19 00-0017	EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	924.91	221.36
	For Class 52 Rating, Deduct	-64.85	
	For Class 54 Rating, Add	44.21	
	For Class 55 Rating, Add	98.27	
40 05 19 00-0018	EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	956.07	224.52
	For Class 52 Rating, Deduct	-67.75	
	For Class 54 Rating, Add	46.19	
	For Class 55 Rating, Add	102.67	
40 05 19 00-0019	EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	987.23	227.67
	For Class 52 Rating, Deduct	-70.65	
	For Class 54 Rating, Add	48.17	
	For Class 55 Rating, Add	107.07	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,018.39	230.82
			<i>For Class 52 Rating, Deduct</i>	-73.55	
			<i>For Class 54 Rating, Add</i>	50.15	
			<i>For Class 55 Rating, Add</i>	111.46	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,049.54	233.98
			<i>For Class 52 Rating, Deduct</i>	-76.45	
			<i>For Class 54 Rating, Add</i>	52.13	
			<i>For Class 55 Rating, Add</i>	115.86	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,080.70	237.13
			<i>For Class 52 Rating, Deduct</i>	-79.36	
			<i>For Class 54 Rating, Add</i>	54.11	
			<i>For Class 55 Rating, Add</i>	120.26	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,111.86	240.28
			<i>For Class 52 Rating, Deduct</i>	-82.26	
			<i>For Class 54 Rating, Add</i>	56.08	
			<i>For Class 55 Rating, Add</i>	124.66	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,143.02	243.43
			<i>For Class 52 Rating, Deduct</i>	-85.16	
			<i>For Class 54 Rating, Add</i>	58.06	
			<i>For Class 55 Rating, Add</i>	129.05	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,174.18	246.59
			<i>For Class 52 Rating, Deduct</i>	-88.06	
			<i>For Class 54 Rating, Add</i>	60.04	
			<i>For Class 55 Rating, Add</i>	133.45	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,205.33	249.75
			<i>For Class 52 Rating, Deduct</i>	-90.96	
			<i>For Class 54 Rating, Add</i>	62.02	
			<i>For Class 55 Rating, Add</i>	137.85	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,236.49	252.90
			<i>For Class 52 Rating, Deduct</i>	-93.86	
			<i>For Class 54 Rating, Add</i>	64.00	
			<i>For Class 55 Rating, Add</i>	142.25	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,267.65	256.06
			<i>For Class 52 Rating, Deduct</i>	-96.77	
			<i>For Class 54 Rating, Add</i>	65.98	
			<i>For Class 55 Rating, Add</i>	146.64	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,298.81	259.21
			<i>For Class 52 Rating, Deduct</i>	-99.67	
			<i>For Class 54 Rating, Add</i>	67.96	
			<i>For Class 55 Rating, Add</i>	151.04	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,329.97	262.36
			<i>For Class 52 Rating, Deduct</i>	-102.57	
			<i>For Class 54 Rating, Add</i>	69.93	
			<i>For Class 55 Rating, Add</i>	155.44	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,361.12	265.51
			<i>For Class 52 Rating, Deduct</i>	-105.47	
			<i>For Class 54 Rating, Add</i>	71.91	
			<i>For Class 55 Rating, Add</i>	159.84	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,392.29	268.67
			<i>For Class 52 Rating, Deduct</i>	-108.37	
			<i>For Class 54 Rating, Add</i>	73.89	
			<i>For Class 55 Rating, Add</i>	164.24	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,423.45	271.82
			<i>For Class 52 Rating, Deduct</i>	-111.28	
			<i>For Class 54 Rating, Add</i>	75.87	
			<i>For Class 55 Rating, Add</i>	168.63	
40 05 19 00-0034	EA		4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,454.61	274.97
			<i>For Class 52 Rating, Deduct</i>	-114.18	
			<i>For Class 54 Rating, Add</i>	77.85	
			<i>For Class 55 Rating, Add</i>	173.03	
40 05 19 00-0035	EA		4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,485.77	278.13
			<i>For Class 52 Rating, Deduct</i>	-117.08	
			<i>For Class 54 Rating, Add</i>	79.83	
			<i>For Class 55 Rating, Add</i>	177.43	
40 05 19 00-0036	EA		4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,516.92	281.28
			<i>For Class 52 Rating, Deduct</i>	-119.98	
			<i>For Class 54 Rating, Add</i>	81.81	
			<i>For Class 55 Rating, Add</i>	181.83	
40 05 19 00-0037	EA		4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,548.08	284.43
			<i>For Class 52 Rating, Deduct</i>	-122.88	
			<i>For Class 54 Rating, Add</i>	83.78	
			<i>For Class 55 Rating, Add</i>	186.22	
40 05 19 00-0038	EA		4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,579.24	287.59
			<i>For Class 52 Rating, Deduct</i>	-125.79	
			<i>For Class 54 Rating, Add</i>	85.76	
			<i>For Class 55 Rating, Add</i>	190.62	
40 05 19 00-0039	EA		4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,610.40	290.74
			<i>For Class 52 Rating, Deduct</i>	-128.69	
			<i>For Class 54 Rating, Add</i>	87.74	
			<i>For Class 55 Rating, Add</i>	195.02	
40 05 19 00-0040	EA		4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,641.55	293.89
			<i>For Class 52 Rating, Deduct</i>	-131.59	
			<i>For Class 54 Rating, Add</i>	89.72	
			<i>For Class 55 Rating, Add</i>	199.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,672.71	297.04
<i>For Class 52 Rating, Deduct</i>	-134.49	
<i>For Class 54 Rating, Add</i>	91.70	
<i>For Class 55 Rating, Add</i>	203.81	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,703.87	300.20
<i>For Class 52 Rating, Deduct</i>	-137.39	
<i>For Class 54 Rating, Add</i>	93.68	
<i>For Class 55 Rating, Add</i>	208.21	
<b>40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	657.52	227.04
<i>For Class 52 Rating, Deduct</i>	-34.49	
<i>For Class 54 Rating, Add</i>	23.51	
<i>For Class 55 Rating, Add</i>	52.26	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	694.77	230.19
<i>For Class 52 Rating, Deduct</i>	-38.06	
<i>For Class 54 Rating, Add</i>	25.95	
<i>For Class 55 Rating, Add</i>	57.68	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	732.02	233.35
<i>For Class 52 Rating, Deduct</i>	-41.63	
<i>For Class 54 Rating, Add</i>	28.38	
<i>For Class 55 Rating, Add</i>	63.09	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	769.27	236.50
<i>For Class 52 Rating, Deduct</i>	-45.20	
<i>For Class 54 Rating, Add</i>	30.82	
<i>For Class 55 Rating, Add</i>	68.50	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	806.51	239.65
<i>For Class 52 Rating, Deduct</i>	-48.77	
<i>For Class 54 Rating, Add</i>	33.26	
<i>For Class 55 Rating, Add</i>	73.91	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	843.76	242.80
<i>For Class 52 Rating, Deduct</i>	-52.35	
<i>For Class 54 Rating, Add</i>	35.69	
<i>For Class 55 Rating, Add</i>	79.33	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	881.00	245.96
<i>For Class 52 Rating, Deduct</i>	-55.92	
<i>For Class 54 Rating, Add</i>	38.12	
<i>For Class 55 Rating, Add</i>	84.74	
40 05 19 00-0051 EA 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	918.25	249.12
<i>For Class 52 Rating, Deduct</i>	-59.49	
<i>For Class 54 Rating, Add</i>	40.56	
<i>For Class 55 Rating, Add</i>	90.15	
40 05 19 00-0052 EA 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	955.50	252.27
<i>For Class 52 Rating, Deduct</i>	-63.06	
<i>For Class 54 Rating, Add</i>	43.00	
<i>For Class 55 Rating, Add</i>	95.56	
40 05 19 00-0053 EA 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	992.74	255.43
<i>For Class 52 Rating, Deduct</i>	-66.63	
<i>For Class 54 Rating, Add</i>	45.43	
<i>For Class 55 Rating, Add</i>	100.98	
40 05 19 00-0054 EA 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,029.99	258.58
<i>For Class 52 Rating, Deduct</i>	-70.20	
<i>For Class 54 Rating, Add</i>	47.87	
<i>For Class 55 Rating, Add</i>	106.39	
40 05 19 00-0055 EA 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,067.24	261.73
<i>For Class 52 Rating, Deduct</i>	-73.77	
<i>For Class 54 Rating, Add</i>	50.30	
<i>For Class 55 Rating, Add</i>	111.80	
40 05 19 00-0056 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,104.49	264.88
<i>For Class 52 Rating, Deduct</i>	-77.35	
<i>For Class 54 Rating, Add</i>	52.74	
<i>For Class 55 Rating, Add</i>	117.22	
40 05 19 00-0057 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,141.73	268.04
<i>For Class 52 Rating, Deduct</i>	-80.92	
<i>For Class 54 Rating, Add</i>	55.17	
<i>For Class 55 Rating, Add</i>	122.63	
40 05 19 00-0058 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,178.97	271.19
<i>For Class 52 Rating, Deduct</i>	-84.49	
<i>For Class 54 Rating, Add</i>	57.61	
<i>For Class 55 Rating, Add</i>	128.04	
40 05 19 00-0059 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,216.22	274.34
<i>For Class 52 Rating, Deduct</i>	-88.06	
<i>For Class 54 Rating, Add</i>	60.04	
<i>For Class 55 Rating, Add</i>	133.45	
40 05 19 00-0060 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,253.47	277.50
<i>For Class 52 Rating, Deduct</i>	-91.63	
<i>For Class 54 Rating, Add</i>	62.48	
<i>For Class 55 Rating, Add</i>	138.86	
40 05 19 00-0061 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,290.72	280.65
<i>For Class 52 Rating, Deduct</i>	-95.20	
<i>For Class 54 Rating, Add</i>	64.91	
<i>For Class 55 Rating, Add</i>	144.28	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,327.97	283.80
			<i>For Class 52 Rating, Deduct</i>	-98.78	
			<i>For Class 54 Rating, Add</i>	67.35	
			<i>For Class 55 Rating, Add</i>	149.69	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,365.20	286.95
			<i>For Class 52 Rating, Deduct</i>	-102.35	
			<i>For Class 54 Rating, Add</i>	69.78	
			<i>For Class 55 Rating, Add</i>	155.10	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,402.45	290.11
			<i>For Class 52 Rating, Deduct</i>	-105.92	
			<i>For Class 54 Rating, Add</i>	72.22	
			<i>For Class 55 Rating, Add</i>	160.51	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,439.70	293.26
			<i>For Class 52 Rating, Deduct</i>	-109.49	
			<i>For Class 54 Rating, Add</i>	74.65	
			<i>For Class 55 Rating, Add</i>	165.93	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,476.95	296.41
			<i>For Class 52 Rating, Deduct</i>	-113.06	
			<i>For Class 54 Rating, Add</i>	77.09	
			<i>For Class 55 Rating, Add</i>	171.34	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,514.20	299.57
			<i>For Class 52 Rating, Deduct</i>	-116.63	
			<i>For Class 54 Rating, Add</i>	79.52	
			<i>For Class 55 Rating, Add</i>	176.75	
40 05 19 00-0068	EA		6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,551.44	302.72
			<i>For Class 52 Rating, Deduct</i>	-120.20	
			<i>For Class 54 Rating, Add</i>	81.96	
			<i>For Class 55 Rating, Add</i>	182.16	
40 05 19 00-0069	EA		6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,588.69	305.87
			<i>For Class 52 Rating, Deduct</i>	-123.78	
			<i>For Class 54 Rating, Add</i>	84.39	
			<i>For Class 55 Rating, Add</i>	187.58	
40 05 19 00-0070	EA		6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,625.93	309.02
			<i>For Class 52 Rating, Deduct</i>	-127.35	
			<i>For Class 54 Rating, Add</i>	86.83	
			<i>For Class 55 Rating, Add</i>	192.99	
40 05 19 00-0071	EA		6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,663.18	312.18
			<i>For Class 52 Rating, Deduct</i>	-130.92	
			<i>For Class 54 Rating, Add</i>	89.26	
			<i>For Class 55 Rating, Add</i>	198.40	
40 05 19 00-0072	EA		6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,700.43	315.33
			<i>For Class 52 Rating, Deduct</i>	-134.49	
			<i>For Class 54 Rating, Add</i>	91.70	
			<i>For Class 55 Rating, Add</i>	203.81	
40 05 19 00-0073	EA		6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,737.67	318.49
			<i>For Class 52 Rating, Deduct</i>	-138.06	
			<i>For Class 54 Rating, Add</i>	94.13	
			<i>For Class 55 Rating, Add</i>	209.23	
40 05 19 00-0074	EA		6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,774.92	321.65
			<i>For Class 52 Rating, Deduct</i>	-141.63	
			<i>For Class 54 Rating, Add</i>	96.57	
			<i>For Class 55 Rating, Add</i>	214.64	
40 05 19 00-0075	EA		6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,812.17	324.80
			<i>For Class 52 Rating, Deduct</i>	-145.21	
			<i>For Class 54 Rating, Add</i>	99.00	
			<i>For Class 55 Rating, Add</i>	220.05	
40 05 19 00-0076	EA		6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,849.42	327.95
			<i>For Class 52 Rating, Deduct</i>	-148.78	
			<i>For Class 54 Rating, Add</i>	101.44	
			<i>For Class 55 Rating, Add</i>	225.47	
40 05 19 00-0077	EA		6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,886.65	331.11
			<i>For Class 52 Rating, Deduct</i>	-152.35	
			<i>For Class 54 Rating, Add</i>	103.87	
			<i>For Class 55 Rating, Add</i>	230.88	
40 05 19 00-0078	EA		6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,923.90	334.26
			<i>For Class 52 Rating, Deduct</i>	-155.92	
			<i>For Class 54 Rating, Add</i>	106.31	
			<i>For Class 55 Rating, Add</i>	236.29	
40 05 19 00-0079	EA		6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,961.14	337.41
			<i>For Class 52 Rating, Deduct</i>	-159.49	
			<i>For Class 54 Rating, Add</i>	108.74	
			<i>For Class 55 Rating, Add</i>	241.70	
40 05 19 00-0080	EA		6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,998.39	340.56
			<i>For Class 52 Rating, Deduct</i>	-163.06	
			<i>For Class 54 Rating, Add</i>	111.18	
			<i>For Class 55 Rating, Add</i>	247.11	
40 05 19 00-0081	EA		6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,035.64	343.72
			<i>For Class 52 Rating, Deduct</i>	-166.63	
			<i>For Class 54 Rating, Add</i>	113.61	
			<i>For Class 55 Rating, Add</i>	252.53	
40 05 19 00-0082	EA		6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,072.88	346.87
			<i>For Class 52 Rating, Deduct</i>	-170.21	
			<i>For Class 54 Rating, Add</i>	116.05	
			<i>For Class 55 Rating, Add</i>	257.94	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0083			<b>8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0084	EA		8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	901.22	290.11
			<i>For Class 52 Rating, Deduct</i>	-50.78	
			<i>For Class 54 Rating, Add</i>	34.62	
			<i>For Class 55 Rating, Add</i>	76.96	
40 05 19 00-0085	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	950.65	293.26
			<i>For Class 52 Rating, Deduct</i>	-55.69	
			<i>For Class 54 Rating, Add</i>	37.97	
			<i>For Class 55 Rating, Add</i>	84.40	
40 05 19 00-0086	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,000.07	296.41
			<i>For Class 52 Rating, Deduct</i>	-60.60	
			<i>For Class 54 Rating, Add</i>	41.32	
			<i>For Class 55 Rating, Add</i>	91.84	
40 05 19 00-0087	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,049.49	299.57
			<i>For Class 52 Rating, Deduct</i>	-65.51	
			<i>For Class 54 Rating, Add</i>	44.67	
			<i>For Class 55 Rating, Add</i>	99.28	
40 05 19 00-0088	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,098.91	302.72
			<i>For Class 52 Rating, Deduct</i>	-70.43	
			<i>For Class 54 Rating, Add</i>	48.02	
			<i>For Class 55 Rating, Add</i>	106.73	
40 05 19 00-0089	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,148.33	305.87
			<i>For Class 52 Rating, Deduct</i>	-75.34	
			<i>For Class 54 Rating, Add</i>	51.37	
			<i>For Class 55 Rating, Add</i>	114.17	
40 05 19 00-0090	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,197.76	309.02
			<i>For Class 52 Rating, Deduct</i>	-80.25	
			<i>For Class 54 Rating, Add</i>	54.71	
			<i>For Class 55 Rating, Add</i>	121.61	
40 05 19 00-0091	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,247.18	312.18
			<i>For Class 52 Rating, Deduct</i>	-85.16	
			<i>For Class 54 Rating, Add</i>	58.06	
			<i>For Class 55 Rating, Add</i>	129.05	
40 05 19 00-0092	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,296.60	315.33
			<i>For Class 52 Rating, Deduct</i>	-90.07	
			<i>For Class 54 Rating, Add</i>	61.41	
			<i>For Class 55 Rating, Add</i>	136.50	
40 05 19 00-0093	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,346.02	318.49
			<i>For Class 52 Rating, Deduct</i>	-94.98	
			<i>For Class 54 Rating, Add</i>	64.76	
			<i>For Class 55 Rating, Add</i>	143.94	
40 05 19 00-0094	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,395.44	321.65
			<i>For Class 52 Rating, Deduct</i>	-99.89	
			<i>For Class 54 Rating, Add</i>	68.11	
			<i>For Class 55 Rating, Add</i>	151.38	
40 05 19 00-0095	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,444.87	324.80
			<i>For Class 52 Rating, Deduct</i>	-104.80	
			<i>For Class 54 Rating, Add</i>	71.46	
			<i>For Class 55 Rating, Add</i>	158.82	
40 05 19 00-0096	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,494.29	327.95
			<i>For Class 52 Rating, Deduct</i>	-109.71	
			<i>For Class 54 Rating, Add</i>	74.80	
			<i>For Class 55 Rating, Add</i>	166.26	
40 05 19 00-0097	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,543.71	331.11
			<i>For Class 52 Rating, Deduct</i>	-114.62	
			<i>For Class 54 Rating, Add</i>	78.15	
			<i>For Class 55 Rating, Add</i>	173.71	
40 05 19 00-0098	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,593.13	334.26
			<i>For Class 52 Rating, Deduct</i>	-119.53	
			<i>For Class 54 Rating, Add</i>	81.50	
			<i>For Class 55 Rating, Add</i>	181.15	
40 05 19 00-0099	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,642.54	337.41
			<i>For Class 52 Rating, Deduct</i>	-124.45	
			<i>For Class 54 Rating, Add</i>	84.85	
			<i>For Class 55 Rating, Add</i>	188.59	
40 05 19 00-0100	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,691.97	340.56
			<i>For Class 52 Rating, Deduct</i>	-129.36	
			<i>For Class 54 Rating, Add</i>	88.20	
			<i>For Class 55 Rating, Add</i>	196.03	
40 05 19 00-0101	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,741.39	343.72
			<i>For Class 52 Rating, Deduct</i>	-134.27	
			<i>For Class 54 Rating, Add</i>	91.55	
			<i>For Class 55 Rating, Add</i>	203.48	
40 05 19 00-0102	EA		8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,790.81	346.87
			<i>For Class 52 Rating, Deduct</i>	-139.18	
			<i>For Class 54 Rating, Add</i>	94.89	
			<i>For Class 55 Rating, Add</i>	210.92	
40 05 19 00-0103	EA		8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,840.23	350.02
			<i>For Class 52 Rating, Deduct</i>	-144.09	
			<i>For Class 54 Rating, Add</i>	98.24	
			<i>For Class 55 Rating, Add</i>	218.36	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,889.65	353.18
For Class 52 Rating, Deduct	-149.00	
For Class 54 Rating, Add	101.59	
For Class 55 Rating, Add	225.80	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,939.08	356.33
For Class 52 Rating, Deduct	-153.91	
For Class 54 Rating, Add	104.94	
For Class 55 Rating, Add	233.24	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,988.50	359.48
For Class 52 Rating, Deduct	-158.82	
For Class 54 Rating, Add	108.29	
For Class 55 Rating, Add	240.69	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,037.92	362.63
For Class 52 Rating, Deduct	-163.73	
For Class 54 Rating, Add	111.64	
For Class 55 Rating, Add	248.13	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,087.34	365.79
For Class 52 Rating, Deduct	-168.64	
For Class 54 Rating, Add	114.98	
For Class 55 Rating, Add	255.57	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,136.77	368.94
For Class 52 Rating, Deduct	-173.55	
For Class 54 Rating, Add	118.33	
For Class 55 Rating, Add	263.01	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,186.19	372.09
For Class 52 Rating, Deduct	-178.47	
For Class 54 Rating, Add	121.68	
For Class 55 Rating, Add	270.46	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,235.61	375.25
For Class 52 Rating, Deduct	-183.38	
For Class 54 Rating, Add	125.03	
For Class 55 Rating, Add	277.90	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,285.03	378.40
For Class 52 Rating, Deduct	-188.29	
For Class 54 Rating, Add	128.38	
For Class 55 Rating, Add	285.34	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,334.45	381.55
For Class 52 Rating, Deduct	-193.20	
For Class 54 Rating, Add	131.73	
For Class 55 Rating, Add	292.78	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,383.88	384.70
For Class 52 Rating, Deduct	-198.11	
For Class 54 Rating, Add	135.07	
For Class 55 Rating, Add	300.23	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,433.30	387.87
For Class 52 Rating, Deduct	-203.02	
For Class 54 Rating, Add	138.42	
For Class 55 Rating, Add	307.67	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,482.72	391.02
For Class 52 Rating, Deduct	-207.93	
For Class 54 Rating, Add	141.77	
For Class 55 Rating, Add	315.11	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,532.14	394.17
For Class 52 Rating, Deduct	-212.84	
For Class 54 Rating, Add	145.12	
For Class 55 Rating, Add	322.55	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,581.56	397.33
For Class 52 Rating, Deduct	-217.75	
For Class 54 Rating, Add	148.47	
For Class 55 Rating, Add	329.99	
40 05 19 00-0119 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,630.99	400.48
For Class 52 Rating, Deduct	-222.66	
For Class 54 Rating, Add	151.82	
For Class 55 Rating, Add	337.44	
40 05 19 00-0120 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,680.41	403.63
For Class 52 Rating, Deduct	-227.57	
For Class 54 Rating, Add	155.16	
For Class 55 Rating, Add	344.88	
40 05 19 00-0121 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,729.84	406.79
For Class 52 Rating, Deduct	-232.49	
For Class 54 Rating, Add	158.51	
For Class 55 Rating, Add	352.32	
40 05 19 00-0122 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,779.25	409.94
For Class 52 Rating, Deduct	-237.40	
For Class 54 Rating, Add	161.86	
For Class 55 Rating, Add	359.76	
<b>40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)</b>		
40 05 19 00-0124 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,127.66	353.18
For Class 52 Rating, Deduct	-65.18	
For Class 54 Rating, Add	44.44	
For Class 55 Rating, Add	98.78	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,191.29	356.33
<i>For Class 52 Rating, Deduct</i>	-71.65	
<i>For Class 54 Rating, Add</i>	48.86	
<i>For Class 55 Rating, Add</i>	108.59	
40 05 19 00-0126 EA 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,254.92	359.48
<i>For Class 52 Rating, Deduct</i>	-78.13	
<i>For Class 54 Rating, Add</i>	53.27	
<i>For Class 55 Rating, Add</i>	118.40	
40 05 19 00-0127 EA 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,318.54	362.63
<i>For Class 52 Rating, Deduct</i>	-84.60	
<i>For Class 54 Rating, Add</i>	57.68	
<i>For Class 55 Rating, Add</i>	128.21	
40 05 19 00-0128 EA 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,382.17	365.79
<i>For Class 52 Rating, Deduct</i>	-91.07	
<i>For Class 54 Rating, Add</i>	62.10	
<i>For Class 55 Rating, Add</i>	138.02	
40 05 19 00-0129 EA 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,445.80	368.94
<i>For Class 52 Rating, Deduct</i>	-97.55	
<i>For Class 54 Rating, Add</i>	66.51	
<i>For Class 55 Rating, Add</i>	147.83	
40 05 19 00-0130 EA 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,509.42	372.09
<i>For Class 52 Rating, Deduct</i>	-104.02	
<i>For Class 54 Rating, Add</i>	70.92	
<i>For Class 55 Rating, Add</i>	157.64	
40 05 19 00-0131 EA 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,573.05	375.25
<i>For Class 52 Rating, Deduct</i>	-110.49	
<i>For Class 54 Rating, Add</i>	75.34	
<i>For Class 55 Rating, Add</i>	167.45	
40 05 19 00-0132 EA 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,636.67	378.40
<i>For Class 52 Rating, Deduct</i>	-116.97	
<i>For Class 54 Rating, Add</i>	79.75	
<i>For Class 55 Rating, Add</i>	177.26	
40 05 19 00-0133 EA 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,700.30	381.55
<i>For Class 52 Rating, Deduct</i>	-123.44	
<i>For Class 54 Rating, Add</i>	84.16	
<i>For Class 55 Rating, Add</i>	187.07	
40 05 19 00-0134 EA 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,763.93	384.70
<i>For Class 52 Rating, Deduct</i>	-129.91	
<i>For Class 54 Rating, Add</i>	88.58	
<i>For Class 55 Rating, Add</i>	196.88	
40 05 19 00-0135 EA 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,827.56	387.87
<i>For Class 52 Rating, Deduct</i>	-136.39	
<i>For Class 54 Rating, Add</i>	92.99	
<i>For Class 55 Rating, Add</i>	206.69	
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,891.19	391.02
<i>For Class 52 Rating, Deduct</i>	-142.86	
<i>For Class 54 Rating, Add</i>	97.41	
<i>For Class 55 Rating, Add</i>	216.50	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,954.81	394.17
<i>For Class 52 Rating, Deduct</i>	-149.33	
<i>For Class 54 Rating, Add</i>	101.82	
<i>For Class 55 Rating, Add</i>	226.31	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,018.44	397.33
<i>For Class 52 Rating, Deduct</i>	-155.81	
<i>For Class 54 Rating, Add</i>	106.23	
<i>For Class 55 Rating, Add</i>	236.12	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,082.07	400.48
<i>For Class 52 Rating, Deduct</i>	-162.28	
<i>For Class 54 Rating, Add</i>	110.65	
<i>For Class 55 Rating, Add</i>	245.93	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,145.70	403.63
<i>For Class 52 Rating, Deduct</i>	-168.76	
<i>For Class 54 Rating, Add</i>	115.06	
<i>For Class 55 Rating, Add</i>	255.74	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,209.32	406.79
<i>For Class 52 Rating, Deduct</i>	-175.23	
<i>For Class 54 Rating, Add</i>	119.47	
<i>For Class 55 Rating, Add</i>	265.55	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,272.94	409.94
<i>For Class 52 Rating, Deduct</i>	-181.70	
<i>For Class 54 Rating, Add</i>	123.89	
<i>For Class 55 Rating, Add</i>	275.36	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,336.57	413.09
<i>For Class 52 Rating, Deduct</i>	-188.17	
<i>For Class 54 Rating, Add</i>	128.30	
<i>For Class 55 Rating, Add</i>	285.17	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,400.20	416.24
<i>For Class 52 Rating, Deduct</i>	-194.65	
<i>For Class 54 Rating, Add</i>	132.71	
<i>For Class 55 Rating, Add</i>	294.98	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,463.83	419.40
<i>For Class 52 Rating, Deduct</i>	-201.12	
<i>For Class 54 Rating, Add</i>	137.13	
<i>For Class 55 Rating, Add</i>	304.79	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,527.46	422.55
		<i>For Class 52 Rating, Deduct</i>	-207.60	
		<i>For Class 54 Rating, Add</i>	141.54	
		<i>For Class 55 Rating, Add</i>	314.60	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,591.08	425.70
		<i>For Class 52 Rating, Deduct</i>	-214.07	
		<i>For Class 54 Rating, Add</i>	145.96	
		<i>For Class 55 Rating, Add</i>	324.41	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,654.71	428.86
		<i>For Class 52 Rating, Deduct</i>	-220.54	
		<i>For Class 54 Rating, Add</i>	150.37	
		<i>For Class 55 Rating, Add</i>	334.22	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,718.34	432.01
		<i>For Class 52 Rating, Deduct</i>	-227.02	
		<i>For Class 54 Rating, Add</i>	154.78	
		<i>For Class 55 Rating, Add</i>	344.03	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,781.97	435.16
		<i>For Class 52 Rating, Deduct</i>	-233.49	
		<i>For Class 54 Rating, Add</i>	159.20	
		<i>For Class 55 Rating, Add</i>	353.84	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,845.60	438.31
		<i>For Class 52 Rating, Deduct</i>	-239.96	
		<i>For Class 54 Rating, Add</i>	163.61	
		<i>For Class 55 Rating, Add</i>	363.65	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,909.22	441.47
		<i>For Class 52 Rating, Deduct</i>	-246.44	
		<i>For Class 54 Rating, Add</i>	168.02	
		<i>For Class 55 Rating, Add</i>	373.46	
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,972.84	444.62
		<i>For Class 52 Rating, Deduct</i>	-252.91	
		<i>For Class 54 Rating, Add</i>	172.44	
		<i>For Class 55 Rating, Add</i>	383.27	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,036.47	447.77
		<i>For Class 52 Rating, Deduct</i>	-259.38	
		<i>For Class 54 Rating, Add</i>	176.85	
		<i>For Class 55 Rating, Add</i>	393.08	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,099.09	450.93
		<i>For Class 52 Rating, Deduct</i>	-265.74	
		<i>For Class 54 Rating, Add</i>	181.19	
		<i>For Class 55 Rating, Add</i>	402.72	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,163.72	454.08
		<i>For Class 52 Rating, Deduct</i>	-272.33	
		<i>For Class 54 Rating, Add</i>	185.68	
		<i>For Class 55 Rating, Add</i>	412.70	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,227.35	457.23
		<i>For Class 52 Rating, Deduct</i>	-278.80	
		<i>For Class 54 Rating, Add</i>	190.09	
		<i>For Class 55 Rating, Add</i>	422.51	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,290.98	460.39
		<i>For Class 52 Rating, Deduct</i>	-285.28	
		<i>For Class 54 Rating, Add</i>	194.51	
		<i>For Class 55 Rating, Add</i>	432.32	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,354.61	463.55
		<i>For Class 52 Rating, Deduct</i>	-291.75	
		<i>For Class 54 Rating, Add</i>	198.92	
		<i>For Class 55 Rating, Add</i>	442.13	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,418.24	466.70
		<i>For Class 52 Rating, Deduct</i>	-298.22	
		<i>For Class 54 Rating, Add</i>	203.33	
		<i>For Class 55 Rating, Add</i>	451.94	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,481.86	469.85
		<i>For Class 52 Rating, Deduct</i>	-304.70	
		<i>For Class 54 Rating, Add</i>	207.75	
		<i>For Class 55 Rating, Add</i>	461.75	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,545.49	473.01
		<i>For Class 52 Rating, Deduct</i>	-311.17	
		<i>For Class 54 Rating, Add</i>	212.16	
		<i>For Class 55 Rating, Add</i>	471.56	
40 05 19 00-0163		<b>12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)</b>		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,462.34	441.47
		<i>For Class 52 Rating, Deduct</i>	-87.28	
		<i>For Class 54 Rating, Add</i>	59.51	
		<i>For Class 55 Rating, Add</i>	132.27	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,541.19	444.62
		<i>For Class 52 Rating, Deduct</i>	-95.43	
		<i>For Class 54 Rating, Add</i>	65.06	
		<i>For Class 55 Rating, Add</i>	144.62	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,620.04	447.77
		<i>For Class 52 Rating, Deduct</i>	-103.57	
		<i>For Class 54 Rating, Add</i>	70.62	
		<i>For Class 55 Rating, Add</i>	156.96	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167 EA 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,698.88	450.93
<i>For Class 52 Rating, Deduct</i>	-111.72	
<i>For Class 54 Rating, Add</i>	76.17	
<i>For Class 55 Rating, Add</i>	169.31	
40 05 19 00-0168 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,777.72	454.08
<i>For Class 52 Rating, Deduct</i>	-119.87	
<i>For Class 54 Rating, Add</i>	81.73	
<i>For Class 55 Rating, Add</i>	181.66	
40 05 19 00-0169 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,856.57	457.23
<i>For Class 52 Rating, Deduct</i>	-128.02	
<i>For Class 54 Rating, Add</i>	87.28	
<i>For Class 55 Rating, Add</i>	194.00	
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,935.42	460.39
<i>For Class 52 Rating, Deduct</i>	-136.16	
<i>For Class 54 Rating, Add</i>	92.84	
<i>For Class 55 Rating, Add</i>	206.35	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,014.27	463.55
<i>For Class 52 Rating, Deduct</i>	-144.31	
<i>For Class 54 Rating, Add</i>	98.39	
<i>For Class 55 Rating, Add</i>	218.70	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,093.12	466.70
<i>For Class 52 Rating, Deduct</i>	-152.46	
<i>For Class 54 Rating, Add</i>	103.95	
<i>For Class 55 Rating, Add</i>	231.05	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,171.96	469.85
<i>For Class 52 Rating, Deduct</i>	-160.61	
<i>For Class 54 Rating, Add</i>	109.51	
<i>For Class 55 Rating, Add</i>	243.39	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,250.81	473.01
<i>For Class 52 Rating, Deduct</i>	-168.76	
<i>For Class 54 Rating, Add</i>	115.06	
<i>For Class 55 Rating, Add</i>	255.74	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,329.65	476.16
<i>For Class 52 Rating, Deduct</i>	-176.90	
<i>For Class 54 Rating, Add</i>	120.62	
<i>For Class 55 Rating, Add</i>	268.09	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,408.50	479.31
<i>For Class 52 Rating, Deduct</i>	-185.05	
<i>For Class 54 Rating, Add</i>	126.17	
<i>For Class 55 Rating, Add</i>	280.43	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,487.35	482.46
<i>For Class 52 Rating, Deduct</i>	-193.20	
<i>For Class 54 Rating, Add</i>	131.73	
<i>For Class 55 Rating, Add</i>	292.78	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,566.19	485.62
<i>For Class 52 Rating, Deduct</i>	-201.35	
<i>For Class 54 Rating, Add</i>	137.28	
<i>For Class 55 Rating, Add</i>	305.13	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,645.04	488.77
<i>For Class 52 Rating, Deduct</i>	-209.49	
<i>For Class 54 Rating, Add</i>	142.84	
<i>For Class 55 Rating, Add</i>	317.48	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,723.89	491.92
<i>For Class 52 Rating, Deduct</i>	-217.64	
<i>For Class 54 Rating, Add</i>	148.39	
<i>For Class 55 Rating, Add</i>	329.82	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,802.74	495.08
<i>For Class 52 Rating, Deduct</i>	-225.79	
<i>For Class 54 Rating, Add</i>	153.95	
<i>For Class 55 Rating, Add</i>	342.17	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,881.59	498.23
<i>For Class 52 Rating, Deduct</i>	-233.94	
<i>For Class 54 Rating, Add</i>	159.50	
<i>For Class 55 Rating, Add</i>	354.52	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,960.42	501.38
<i>For Class 52 Rating, Deduct</i>	-242.08	
<i>For Class 54 Rating, Add</i>	165.06	
<i>For Class 55 Rating, Add</i>	366.87	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,039.27	504.54
<i>For Class 52 Rating, Deduct</i>	-250.23	
<i>For Class 54 Rating, Add</i>	170.61	
<i>For Class 55 Rating, Add</i>	379.21	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,118.12	507.69
<i>For Class 52 Rating, Deduct</i>	-258.38	
<i>For Class 54 Rating, Add</i>	176.17	
<i>For Class 55 Rating, Add</i>	391.56	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,196.97	510.84
<i>For Class 52 Rating, Deduct</i>	-266.53	
<i>For Class 54 Rating, Add</i>	181.72	
<i>For Class 55 Rating, Add</i>	403.91	
40 05 19 00-0187 EA 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,275.82	513.99
<i>For Class 52 Rating, Deduct</i>	-274.67	
<i>For Class 54 Rating, Add</i>	187.28	
<i>For Class 55 Rating, Add</i>	416.25	



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,354.66	517.15
		<i>For Class 52 Rating, Deduct</i>	-282.82	
		<i>For Class 54 Rating, Add</i>	192.83	
		<i>For Class 55 Rating, Add</i>	428.60	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,433.51	520.30
		<i>For Class 52 Rating, Deduct</i>	-290.97	
		<i>For Class 54 Rating, Add</i>	198.39	
		<i>For Class 55 Rating, Add</i>	440.95	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,512.36	523.45
		<i>For Class 52 Rating, Deduct</i>	-299.12	
		<i>For Class 54 Rating, Add</i>	203.94	
		<i>For Class 55 Rating, Add</i>	453.30	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,591.20	526.61
		<i>For Class 52 Rating, Deduct</i>	-307.26	
		<i>For Class 54 Rating, Add</i>	209.50	
		<i>For Class 55 Rating, Add</i>	465.64	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,670.05	529.77
		<i>For Class 52 Rating, Deduct</i>	-315.41	
		<i>For Class 54 Rating, Add</i>	215.05	
		<i>For Class 55 Rating, Add</i>	477.99	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,748.89	532.92
		<i>For Class 52 Rating, Deduct</i>	-323.56	
		<i>For Class 54 Rating, Add</i>	220.61	
		<i>For Class 55 Rating, Add</i>	490.34	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,827.74	536.07
		<i>For Class 52 Rating, Deduct</i>	-331.71	
		<i>For Class 54 Rating, Add</i>	226.16	
		<i>For Class 55 Rating, Add</i>	502.69	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,906.59	539.23
		<i>For Class 52 Rating, Deduct</i>	-339.85	
		<i>For Class 54 Rating, Add</i>	231.72	
		<i>For Class 55 Rating, Add</i>	515.03	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,985.44	542.38
		<i>For Class 52 Rating, Deduct</i>	-348.00	
		<i>For Class 54 Rating, Add</i>	237.27	
		<i>For Class 55 Rating, Add</i>	527.38	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,064.29	545.53
		<i>For Class 52 Rating, Deduct</i>	-356.15	
		<i>For Class 54 Rating, Add</i>	242.83	
		<i>For Class 55 Rating, Add</i>	539.73	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,143.12	548.69
		<i>For Class 52 Rating, Deduct</i>	-364.30	
		<i>For Class 54 Rating, Add</i>	248.38	
		<i>For Class 55 Rating, Add</i>	552.07	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,221.97	551.84
		<i>For Class 52 Rating, Deduct</i>	-372.44	
		<i>For Class 54 Rating, Add</i>	253.94	
		<i>For Class 55 Rating, Add</i>	564.42	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,300.82	554.99
		<i>For Class 52 Rating, Deduct</i>	-380.59	
		<i>For Class 54 Rating, Add</i>	259.49	
		<i>For Class 55 Rating, Add</i>	576.77	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,379.67	558.14
		<i>For Class 52 Rating, Deduct</i>	-388.74	
		<i>For Class 54 Rating, Add</i>	265.05	
		<i>For Class 55 Rating, Add</i>	589.12	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,458.51	561.30
		<i>For Class 52 Rating, Deduct</i>	-396.89	
		<i>For Class 54 Rating, Add</i>	270.60	
		<i>For Class 55 Rating, Add</i>	601.46	
<b>40 05 19 00-0203</b>		<b>14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0204	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,913.71	529.77
		<i>For Class 52 Rating, Deduct</i>	-122.21	
		<i>For Class 54 Rating, Add</i>	83.33	
		<i>For Class 55 Rating, Add</i>	185.21	
40 05 19 00-0205	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,008.78	532.92
		<i>For Class 52 Rating, Deduct</i>	-132.15	
		<i>For Class 54 Rating, Add</i>	90.10	
		<i>For Class 55 Rating, Add</i>	200.26	
40 05 19 00-0206	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,103.87	536.07
		<i>For Class 52 Rating, Deduct</i>	-142.08	
		<i>For Class 54 Rating, Add</i>	96.87	
		<i>For Class 55 Rating, Add</i>	215.32	
40 05 19 00-0207	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,198.95	539.23
		<i>For Class 52 Rating, Deduct</i>	-152.01	
		<i>For Class 54 Rating, Add</i>	103.65	
		<i>For Class 55 Rating, Add</i>	230.37	
40 05 19 00-0208	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,294.03	542.38
		<i>For Class 52 Rating, Deduct</i>	-161.95	
		<i>For Class 54 Rating, Add</i>	110.42	
		<i>For Class 55 Rating, Add</i>	245.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,389.12	545.53
<i>For Class 52 Rating, Deduct</i>	-171.88	
<i>For Class 54 Rating, Add</i>	117.19	
<i>For Class 55 Rating, Add</i>	260.48	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,484.19	548.69
<i>For Class 52 Rating, Deduct</i>	-181.81	
<i>For Class 54 Rating, Add</i>	123.96	
<i>For Class 55 Rating, Add</i>	275.53	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,579.27	551.84
<i>For Class 52 Rating, Deduct</i>	-191.75	
<i>For Class 54 Rating, Add</i>	130.74	
<i>For Class 55 Rating, Add</i>	290.58	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,674.35	554.99
<i>For Class 52 Rating, Deduct</i>	-201.68	
<i>For Class 54 Rating, Add</i>	137.51	
<i>For Class 55 Rating, Add</i>	305.64	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,769.44	558.14
<i>For Class 52 Rating, Deduct</i>	-211.61	
<i>For Class 54 Rating, Add</i>	144.28	
<i>For Class 55 Rating, Add</i>	320.69	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,864.51	561.30
<i>For Class 52 Rating, Deduct</i>	-221.55	
<i>For Class 54 Rating, Add</i>	151.05	
<i>For Class 55 Rating, Add</i>	335.74	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,959.58	564.45
<i>For Class 52 Rating, Deduct</i>	-231.48	
<i>For Class 54 Rating, Add</i>	157.83	
<i>For Class 55 Rating, Add</i>	350.80	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,054.67	567.60
<i>For Class 52 Rating, Deduct</i>	-241.41	
<i>For Class 54 Rating, Add</i>	164.60	
<i>For Class 55 Rating, Add</i>	365.85	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,149.75	570.76
<i>For Class 52 Rating, Deduct</i>	-251.35	
<i>For Class 54 Rating, Add</i>	171.37	
<i>For Class 55 Rating, Add</i>	380.90	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,244.83	573.91
<i>For Class 52 Rating, Deduct</i>	-261.28	
<i>For Class 54 Rating, Add</i>	178.15	
<i>For Class 55 Rating, Add</i>	395.96	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,339.92	577.06
<i>For Class 52 Rating, Deduct</i>	-271.21	
<i>For Class 54 Rating, Add</i>	184.92	
<i>For Class 55 Rating, Add</i>	411.01	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,434.99	580.21
<i>For Class 52 Rating, Deduct</i>	-281.15	
<i>For Class 54 Rating, Add</i>	191.69	
<i>For Class 55 Rating, Add</i>	426.07	
40 05 19 00-0221 EA 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,530.07	583.37
<i>For Class 52 Rating, Deduct</i>	-291.08	
<i>For Class 54 Rating, Add</i>	198.46	
<i>For Class 55 Rating, Add</i>	441.12	
40 05 19 00-0222 EA 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,625.15	586.52
<i>For Class 52 Rating, Deduct</i>	-301.01	
<i>For Class 54 Rating, Add</i>	205.24	
<i>For Class 55 Rating, Add</i>	456.17	
40 05 19 00-0223 EA 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,720.24	589.67
<i>For Class 52 Rating, Deduct</i>	-310.95	
<i>For Class 54 Rating, Add</i>	212.01	
<i>For Class 55 Rating, Add</i>	471.23	
40 05 19 00-0224 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,815.31	592.83
<i>For Class 52 Rating, Deduct</i>	-320.88	
<i>For Class 54 Rating, Add</i>	218.78	
<i>For Class 55 Rating, Add</i>	486.28	
40 05 19 00-0225 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,910.39	595.98
<i>For Class 52 Rating, Deduct</i>	-330.81	
<i>For Class 54 Rating, Add</i>	225.55	
<i>For Class 55 Rating, Add</i>	501.33	
40 05 19 00-0226 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,005.48	599.14
<i>For Class 52 Rating, Deduct</i>	-340.75	
<i>For Class 54 Rating, Add</i>	232.33	
<i>For Class 55 Rating, Add</i>	516.39	
40 05 19 00-0227 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,100.56	602.30
<i>For Class 52 Rating, Deduct</i>	-350.68	
<i>For Class 54 Rating, Add</i>	239.10	
<i>For Class 55 Rating, Add</i>	531.44	
40 05 19 00-0228 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,195.64	605.45
<i>For Class 52 Rating, Deduct</i>	-360.61	
<i>For Class 54 Rating, Add</i>	245.87	
<i>For Class 55 Rating, Add</i>	546.49	
40 05 19 00-0229 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,290.71	608.60
<i>For Class 52 Rating, Deduct</i>	-370.55	
<i>For Class 54 Rating, Add</i>	252.65	
<i>For Class 55 Rating, Add</i>	561.55	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,385.80	611.75
For Class 52 Rating, Deduct	-380.48	
For Class 54 Rating, Add	259.42	
For Class 55 Rating, Add	576.60	
40 05 19 00-0231 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,480.88	614.91
For Class 52 Rating, Deduct	-390.41	
For Class 54 Rating, Add	266.19	
For Class 55 Rating, Add	591.65	
40 05 19 00-0232 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,575.96	618.06
For Class 52 Rating, Deduct	-400.35	
For Class 54 Rating, Add	272.96	
For Class 55 Rating, Add	606.71	
40 05 19 00-0233 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,671.05	621.21
For Class 52 Rating, Deduct	-410.28	
For Class 54 Rating, Add	279.74	
For Class 55 Rating, Add	621.76	
40 05 19 00-0234 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,766.12	624.37
For Class 52 Rating, Deduct	-420.21	
For Class 54 Rating, Add	286.51	
For Class 55 Rating, Add	636.81	
40 05 19 00-0235 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,861.20	627.52
For Class 52 Rating, Deduct	-430.15	
For Class 54 Rating, Add	293.28	
For Class 55 Rating, Add	651.87	
40 05 19 00-0236 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,956.29	630.67
For Class 52 Rating, Deduct	-440.08	
For Class 54 Rating, Add	300.05	
For Class 55 Rating, Add	666.92	
40 05 19 00-0237 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,051.37	633.82
For Class 52 Rating, Deduct	-450.01	
For Class 54 Rating, Add	306.83	
For Class 55 Rating, Add	681.97	
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,146.45	636.98
For Class 52 Rating, Deduct	-459.95	
For Class 54 Rating, Add	313.60	
For Class 55 Rating, Add	697.03	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,241.52	640.13
For Class 52 Rating, Deduct	-469.88	
For Class 54 Rating, Add	320.37	
For Class 55 Rating, Add	712.08	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,336.61	643.28
For Class 52 Rating, Deduct	-479.81	
For Class 54 Rating, Add	327.15	
For Class 55 Rating, Add	727.14	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,431.69	646.44
For Class 52 Rating, Deduct	-489.75	
For Class 54 Rating, Add	333.92	
For Class 55 Rating, Add	742.19	
<b>40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> (40 05 19 00-0002)		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,234.34	605.45
For Class 52 Rating, Deduct	-144.87	
For Class 54 Rating, Add	98.78	
For Class 55 Rating, Add	219.54	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,344.64	608.60
For Class 52 Rating, Deduct	-156.48	
For Class 54 Rating, Add	106.69	
For Class 55 Rating, Add	237.14	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,454.94	611.75
For Class 52 Rating, Deduct	-168.09	
For Class 54 Rating, Add	114.60	
For Class 55 Rating, Add	254.73	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,565.24	614.91
For Class 52 Rating, Deduct	-179.69	
For Class 54 Rating, Add	122.52	
For Class 55 Rating, Add	272.32	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,675.54	618.06
For Class 52 Rating, Deduct	-191.30	
For Class 54 Rating, Add	130.43	
For Class 55 Rating, Add	289.91	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,785.85	621.21
For Class 52 Rating, Deduct	-202.91	
For Class 54 Rating, Add	138.35	
For Class 55 Rating, Add	307.50	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,896.14	624.37
For Class 52 Rating, Deduct	-214.52	
For Class 54 Rating, Add	146.26	
For Class 55 Rating, Add	325.09	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,006.44	627.52
For Class 52 Rating, Deduct	-226.12	
For Class 54 Rating, Add	154.17	
For Class 55 Rating, Add	342.68	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,116.74	630.67
<i>For Class 52 Rating, Deduct</i>	-237.73	
<i>For Class 54 Rating, Add</i>	162.09	
<i>For Class 55 Rating, Add</i>	360.27	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,227.05	633.82
<i>For Class 52 Rating, Deduct</i>	-249.34	
<i>For Class 54 Rating, Add</i>	170.00	
<i>For Class 55 Rating, Add</i>	377.86	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,337.35	636.98
<i>For Class 52 Rating, Deduct</i>	-260.95	
<i>For Class 54 Rating, Add</i>	177.92	
<i>For Class 55 Rating, Add</i>	395.45	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,447.64	640.13
<i>For Class 52 Rating, Deduct</i>	-272.55	
<i>For Class 54 Rating, Add</i>	185.83	
<i>For Class 55 Rating, Add</i>	413.04	
40 05 19 00-0255 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,557.94	643.28
<i>For Class 52 Rating, Deduct</i>	-284.16	
<i>For Class 54 Rating, Add</i>	193.75	
<i>For Class 55 Rating, Add</i>	430.63	
40 05 19 00-0256 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,668.25	646.44
<i>For Class 52 Rating, Deduct</i>	-295.77	
<i>For Class 54 Rating, Add</i>	201.66	
<i>For Class 55 Rating, Add</i>	448.22	
40 05 19 00-0257 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,778.55	649.59
<i>For Class 52 Rating, Deduct</i>	-307.38	
<i>For Class 54 Rating, Add</i>	209.57	
<i>For Class 55 Rating, Add</i>	465.81	
40 05 19 00-0258 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,888.85	652.74
<i>For Class 52 Rating, Deduct</i>	-318.98	
<i>For Class 54 Rating, Add</i>	217.49	
<i>For Class 55 Rating, Add</i>	483.40	
40 05 19 00-0259 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,999.14	655.89
<i>For Class 52 Rating, Deduct</i>	-330.59	
<i>For Class 54 Rating, Add</i>	225.40	
<i>For Class 55 Rating, Add</i>	500.99	
40 05 19 00-0260 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,109.45	659.05
<i>For Class 52 Rating, Deduct</i>	-342.20	
<i>For Class 54 Rating, Add</i>	233.32	
<i>For Class 55 Rating, Add</i>	518.59	
40 05 19 00-0261 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,219.75	662.20
<i>For Class 52 Rating, Deduct</i>	-353.81	
<i>For Class 54 Rating, Add</i>	241.23	
<i>For Class 55 Rating, Add</i>	536.18	
40 05 19 00-0262 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,330.05	665.35
<i>For Class 52 Rating, Deduct</i>	-365.41	
<i>For Class 54 Rating, Add</i>	249.14	
<i>For Class 55 Rating, Add</i>	553.77	
40 05 19 00-0263 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,440.35	668.51
<i>For Class 52 Rating, Deduct</i>	-377.02	
<i>For Class 54 Rating, Add</i>	257.06	
<i>For Class 55 Rating, Add</i>	571.36	
40 05 19 00-0264 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,550.65	671.67
<i>For Class 52 Rating, Deduct</i>	-388.63	
<i>For Class 54 Rating, Add</i>	264.97	
<i>For Class 55 Rating, Add</i>	588.95	
40 05 19 00-0265 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,660.95	674.82
<i>For Class 52 Rating, Deduct</i>	-400.24	
<i>For Class 54 Rating, Add</i>	272.89	
<i>For Class 55 Rating, Add</i>	606.54	
40 05 19 00-0266 EA 16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,771.25	677.97
<i>For Class 52 Rating, Deduct</i>	-411.84	
<i>For Class 54 Rating, Add</i>	280.80	
<i>For Class 55 Rating, Add</i>	624.13	
40 05 19 00-0267 EA 16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,881.55	681.13
<i>For Class 52 Rating, Deduct</i>	-423.45	
<i>For Class 54 Rating, Add</i>	288.72	
<i>For Class 55 Rating, Add</i>	641.72	
40 05 19 00-0268 EA 16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,991.86	684.28
<i>For Class 52 Rating, Deduct</i>	-435.06	
<i>For Class 54 Rating, Add</i>	296.63	
<i>For Class 55 Rating, Add</i>	659.31	
40 05 19 00-0269 EA 16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,102.15	687.43
<i>For Class 52 Rating, Deduct</i>	-446.66	
<i>For Class 54 Rating, Add</i>	304.54	
<i>For Class 55 Rating, Add</i>	676.90	
40 05 19 00-0270 EA 16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,212.45	690.59
<i>For Class 52 Rating, Deduct</i>	-458.27	
<i>For Class 54 Rating, Add</i>	312.46	
<i>For Class 55 Rating, Add</i>	694.49	
40 05 19 00-0271 EA 16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,322.75	693.74
<i>For Class 52 Rating, Deduct</i>	-469.88	
<i>For Class 54 Rating, Add</i>	320.37	
<i>For Class 55 Rating, Add</i>	712.08	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,433.06	696.89
For Class 52 Rating, Deduct	-481.49	
For Class 54 Rating, Add	328.29	
For Class 55 Rating, Add	729.67	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,543.36	700.05
For Class 52 Rating, Deduct	-493.09	
For Class 54 Rating, Add	336.20	
For Class 55 Rating, Add	747.26	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,653.65	703.20
For Class 52 Rating, Deduct	-504.70	
For Class 54 Rating, Add	344.12	
For Class 55 Rating, Add	764.85	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,763.95	706.35
For Class 52 Rating, Deduct	-516.31	
For Class 54 Rating, Add	352.03	
For Class 55 Rating, Add	782.44	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,874.26	709.50
For Class 52 Rating, Deduct	-527.92	
For Class 54 Rating, Add	359.94	
For Class 55 Rating, Add	800.03	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,984.56	712.66
For Class 52 Rating, Deduct	-539.52	
For Class 54 Rating, Add	367.86	
For Class 55 Rating, Add	817.63	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,094.85	715.81
For Class 52 Rating, Deduct	-551.13	
For Class 54 Rating, Add	375.77	
For Class 55 Rating, Add	835.22	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,205.15	718.96
For Class 52 Rating, Deduct	-562.74	
For Class 54 Rating, Add	383.69	
For Class 55 Rating, Add	852.81	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,315.46	722.12
For Class 52 Rating, Deduct	-574.35	
For Class 54 Rating, Add	391.60	
For Class 55 Rating, Add	870.40	
<b>40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)</b>		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,586.32	682.39
For Class 52 Rating, Deduct	-170.76	
For Class 54 Rating, Add	116.43	
For Class 55 Rating, Add	258.79	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,712.86	685.54
For Class 52 Rating, Deduct	-184.16	
For Class 54 Rating, Add	125.56	
For Class 55 Rating, Add	279.08	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,839.38	688.69
For Class 52 Rating, Deduct	-197.55	
For Class 54 Rating, Add	134.69	
For Class 55 Rating, Add	299.38	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,965.92	691.85
For Class 52 Rating, Deduct	-210.94	
For Class 54 Rating, Add	143.83	
For Class 55 Rating, Add	319.68	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,092.46	695.00
For Class 52 Rating, Deduct	-224.34	
For Class 54 Rating, Add	152.96	
For Class 55 Rating, Add	339.97	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,218.99	698.15
For Class 52 Rating, Deduct	-237.73	
For Class 54 Rating, Add	162.09	
For Class 55 Rating, Add	360.27	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,345.53	701.31
For Class 52 Rating, Deduct	-251.12	
For Class 54 Rating, Add	171.22	
For Class 55 Rating, Add	380.57	
40 05 19 00-0289 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,472.06	704.46
For Class 52 Rating, Deduct	-264.52	
For Class 54 Rating, Add	180.35	
For Class 55 Rating, Add	400.86	
40 05 19 00-0290 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,598.59	707.61
For Class 52 Rating, Deduct	-277.91	
For Class 54 Rating, Add	189.48	
For Class 55 Rating, Add	421.16	
40 05 19 00-0291 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,725.13	710.77
For Class 52 Rating, Deduct	-291.30	
For Class 54 Rating, Add	198.62	
For Class 55 Rating, Add	441.46	
40 05 19 00-0292 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,851.67	713.92
For Class 52 Rating, Deduct	-304.70	
For Class 54 Rating, Add	207.75	
For Class 55 Rating, Add	461.75	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,978.20	717.07
For Class 52 Rating, Deduct	-318.09	
For Class 54 Rating, Add	216.88	
For Class 55 Rating, Add	482.05	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,104.73	720.22
For Class 52 Rating, Deduct	-331.48	
For Class 54 Rating, Add	226.01	
For Class 55 Rating, Add	502.35	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,231.27	723.38
For Class 52 Rating, Deduct	-344.88	
For Class 54 Rating, Add	235.14	
For Class 55 Rating, Add	522.64	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,357.80	726.53
For Class 52 Rating, Deduct	-358.27	
For Class 54 Rating, Add	244.27	
For Class 55 Rating, Add	542.94	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,484.34	729.68
For Class 52 Rating, Deduct	-371.66	
For Class 54 Rating, Add	253.41	
For Class 55 Rating, Add	563.24	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,610.88	732.84
For Class 52 Rating, Deduct	-385.06	
For Class 54 Rating, Add	262.54	
For Class 55 Rating, Add	583.54	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,737.40	735.99
For Class 52 Rating, Deduct	-398.45	
For Class 54 Rating, Add	271.67	
For Class 55 Rating, Add	603.83	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,863.94	739.14
For Class 52 Rating, Deduct	-411.84	
For Class 54 Rating, Add	280.80	
For Class 55 Rating, Add	624.13	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,990.48	742.30
For Class 52 Rating, Deduct	-425.24	
For Class 54 Rating, Add	289.93	
For Class 55 Rating, Add	644.43	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,117.02	745.46
For Class 52 Rating, Deduct	-438.63	
For Class 54 Rating, Add	299.07	
For Class 55 Rating, Add	664.72	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,243.55	748.61
For Class 52 Rating, Deduct	-452.02	
For Class 54 Rating, Add	308.20	
For Class 55 Rating, Add	685.02	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,370.08	751.76
For Class 52 Rating, Deduct	-465.42	
For Class 54 Rating, Add	317.33	
For Class 55 Rating, Add	705.32	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,496.62	754.92
For Class 52 Rating, Deduct	-478.81	
For Class 54 Rating, Add	326.46	
For Class 55 Rating, Add	725.61	
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,623.15	758.07
For Class 52 Rating, Deduct	-492.20	
For Class 54 Rating, Add	335.59	
For Class 55 Rating, Add	745.91	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,749.69	761.22
For Class 52 Rating, Deduct	-505.60	
For Class 54 Rating, Add	344.72	
For Class 55 Rating, Add	766.21	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,876.23	764.37
For Class 52 Rating, Deduct	-518.99	
For Class 54 Rating, Add	353.86	
For Class 55 Rating, Add	786.50	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,002.75	767.53
For Class 52 Rating, Deduct	-532.38	
For Class 54 Rating, Add	362.99	
For Class 55 Rating, Add	806.80	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,129.29	770.68
For Class 52 Rating, Deduct	-545.77	
For Class 54 Rating, Add	372.12	
For Class 55 Rating, Add	827.10	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,255.83	773.83
For Class 52 Rating, Deduct	-559.17	
For Class 54 Rating, Add	381.25	
For Class 55 Rating, Add	847.39	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,382.36	776.99
For Class 52 Rating, Deduct	-572.56	
For Class 54 Rating, Add	390.38	
For Class 55 Rating, Add	867.69	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,508.90	780.14
For Class 52 Rating, Deduct	-585.95	
For Class 54 Rating, Add	399.51	
For Class 55 Rating, Add	887.99	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,635.42	783.29
For Class 52 Rating, Deduct	-599.35	
For Class 54 Rating, Add	408.65	
For Class 55 Rating, Add	908.28	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,761.95	786.44
For Class 52 Rating, Deduct	-612.74	
For Class 54 Rating, Add	417.78	
For Class 55 Rating, Add	928.58	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,888.49	789.60
For Class 52 Rating, Deduct	-626.13	
For Class 54 Rating, Add	426.91	
For Class 55 Rating, Add	948.88	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,015.03	792.75
For Class 52 Rating, Deduct	-639.53	
For Class 54 Rating, Add	436.04	
For Class 55 Rating, Add	969.18	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,141.55	795.90
For Class 52 Rating, Deduct	-652.92	
For Class 54 Rating, Add	445.17	
For Class 55 Rating, Add	989.47	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,268.09	799.06
For Class 52 Rating, Deduct	-666.31	
For Class 54 Rating, Add	454.31	
For Class 55 Rating, Add	1,009.77	
<b>40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)</b>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,015.60	778.88
For Class 52 Rating, Deduct	-201.90	
For Class 54 Rating, Add	137.66	
For Class 55 Rating, Add	305.97	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,160.40	782.03
For Class 52 Rating, Deduct	-217.31	
For Class 54 Rating, Add	148.16	
For Class 55 Rating, Add	329.32	
40 05 19 00-0323 EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,305.19	785.18
For Class 52 Rating, Deduct	-232.71	
For Class 54 Rating, Add	158.66	
For Class 55 Rating, Add	352.66	
40 05 19 00-0324 EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,449.99	788.34
For Class 52 Rating, Deduct	-248.11	
For Class 54 Rating, Add	169.17	
For Class 55 Rating, Add	376.00	
40 05 19 00-0325 EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,594.79	791.49
For Class 52 Rating, Deduct	-263.51	
For Class 54 Rating, Add	179.67	
For Class 55 Rating, Add	399.34	
40 05 19 00-0326 EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,739.59	794.64
For Class 52 Rating, Deduct	-278.91	
For Class 54 Rating, Add	190.17	
For Class 55 Rating, Add	422.68	
40 05 19 00-0327 EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,884.39	797.80
For Class 52 Rating, Deduct	-294.32	
For Class 54 Rating, Add	200.67	
For Class 55 Rating, Add	446.02	
40 05 19 00-0328 EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,029.19	800.95
For Class 52 Rating, Deduct	-309.72	
For Class 54 Rating, Add	211.17	
For Class 55 Rating, Add	469.37	
40 05 19 00-0329 EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,173.99	804.10
For Class 52 Rating, Deduct	-325.12	
For Class 54 Rating, Add	221.67	
For Class 55 Rating, Add	492.71	
40 05 19 00-0330 EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,318.79	807.25
For Class 52 Rating, Deduct	-340.52	
For Class 54 Rating, Add	232.18	
For Class 55 Rating, Add	516.05	
40 05 19 00-0331 EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,463.58	810.42
For Class 52 Rating, Deduct	-355.93	
For Class 54 Rating, Add	242.68	
For Class 55 Rating, Add	539.39	
40 05 19 00-0332 EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,608.38	813.57
For Class 52 Rating, Deduct	-371.33	
For Class 54 Rating, Add	253.18	
For Class 55 Rating, Add	562.73	
40 05 19 00-0333 EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,753.18	816.72
For Class 52 Rating, Deduct	-386.73	
For Class 54 Rating, Add	263.68	
For Class 55 Rating, Add	586.07	
40 05 19 00-0334 EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,897.98	819.88
For Class 52 Rating, Deduct	-402.13	
For Class 54 Rating, Add	274.18	
For Class 55 Rating, Add	609.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335 EA 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,042.78	823.03
<i>For Class 52 Rating, Deduct</i>	-417.53	
<i>For Class 54 Rating, Add</i>	284.68	
<i>For Class 55 Rating, Add</i>	632.75	
40 05 19 00-0336 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,187.57	826.18
<i>For Class 52 Rating, Deduct</i>	-432.94	
<i>For Class 54 Rating, Add</i>	295.18	
<i>For Class 55 Rating, Add</i>	656.10	
40 05 19 00-0337 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,332.37	829.33
<i>For Class 52 Rating, Deduct</i>	-448.34	
<i>For Class 54 Rating, Add</i>	305.69	
<i>For Class 55 Rating, Add</i>	679.44	
40 05 19 00-0338 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,477.17	832.49
<i>For Class 52 Rating, Deduct</i>	-463.74	
<i>For Class 54 Rating, Add</i>	316.19	
<i>For Class 55 Rating, Add</i>	702.78	
40 05 19 00-0339 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,621.97	835.64
<i>For Class 52 Rating, Deduct</i>	-479.14	
<i>For Class 54 Rating, Add</i>	326.69	
<i>For Class 55 Rating, Add</i>	726.12	
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,766.77	838.79
<i>For Class 52 Rating, Deduct</i>	-494.55	
<i>For Class 54 Rating, Add</i>	337.19	
<i>For Class 55 Rating, Add</i>	749.46	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,911.56	841.95
<i>For Class 52 Rating, Deduct</i>	-509.95	
<i>For Class 54 Rating, Add</i>	347.69	
<i>For Class 55 Rating, Add</i>	772.80	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,056.36	845.10
<i>For Class 52 Rating, Deduct</i>	-525.35	
<i>For Class 54 Rating, Add</i>	358.19	
<i>For Class 55 Rating, Add</i>	796.14	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,201.16	848.25
<i>For Class 52 Rating, Deduct</i>	-540.75	
<i>For Class 54 Rating, Add</i>	368.69	
<i>For Class 55 Rating, Add</i>	819.49	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,345.96	851.40
<i>For Class 52 Rating, Deduct</i>	-556.15	
<i>For Class 54 Rating, Add</i>	379.20	
<i>For Class 55 Rating, Add</i>	842.83	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,490.75	854.56
<i>For Class 52 Rating, Deduct</i>	-571.56	
<i>For Class 54 Rating, Add</i>	389.70	
<i>For Class 55 Rating, Add</i>	866.17	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,635.55	857.71
<i>For Class 52 Rating, Deduct</i>	-586.96	
<i>For Class 54 Rating, Add</i>	400.20	
<i>For Class 55 Rating, Add</i>	889.51	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,780.35	860.86
<i>For Class 52 Rating, Deduct</i>	-602.36	
<i>For Class 54 Rating, Add</i>	410.70	
<i>For Class 55 Rating, Add</i>	912.85	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,925.15	864.02
<i>For Class 52 Rating, Deduct</i>	-617.76	
<i>For Class 54 Rating, Add</i>	421.20	
<i>For Class 55 Rating, Add</i>	936.19	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,069.95	867.17
<i>For Class 52 Rating, Deduct</i>	-633.17	
<i>For Class 54 Rating, Add</i>	431.70	
<i>For Class 55 Rating, Add</i>	959.53	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,214.74	870.32
<i>For Class 52 Rating, Deduct</i>	-648.57	
<i>For Class 54 Rating, Add</i>	442.21	
<i>For Class 55 Rating, Add</i>	982.87	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,359.54	873.48
<i>For Class 52 Rating, Deduct</i>	-663.97	
<i>For Class 54 Rating, Add</i>	452.71	
<i>For Class 55 Rating, Add</i>	1,006.22	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,504.34	876.63
<i>For Class 52 Rating, Deduct</i>	-679.37	
<i>For Class 54 Rating, Add</i>	463.21	
<i>For Class 55 Rating, Add</i>	1,029.56	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,649.14	879.78
<i>For Class 52 Rating, Deduct</i>	-694.77	
<i>For Class 54 Rating, Add</i>	473.71	
<i>For Class 55 Rating, Add</i>	1,052.90	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,793.94	882.94
<i>For Class 52 Rating, Deduct</i>	-710.18	
<i>For Class 54 Rating, Add</i>	484.21	
<i>For Class 55 Rating, Add</i>	1,076.24	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,938.73	886.10
<i>For Class 52 Rating, Deduct</i>	-725.58	
<i>For Class 54 Rating, Add</i>	494.71	
<i>For Class 55 Rating, Add</i>	1,099.58	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,083.54	889.25
For Class 52 Rating, Deduct	-740.98	
For Class 54 Rating, Add	505.22	
For Class 55 Rating, Add	1,122.92	
40 05 19 00-0357 EA 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,228.34	892.40
For Class 52 Rating, Deduct	-756.38	
For Class 54 Rating, Add	515.72	
For Class 55 Rating, Add	1,146.27	
40 05 19 00-0358 EA 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,373.14	895.56
For Class 52 Rating, Deduct	-771.79	
For Class 54 Rating, Add	526.22	
For Class 55 Rating, Add	1,169.61	
<b>40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)</b>		
40 05 19 00-0360 EA 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,686.18	920.78
For Class 52 Rating, Deduct	-252.02	
For Class 54 Rating, Add	171.83	
For Class 55 Rating, Add	381.92	
40 05 19 00-0361 EA 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,864.46	923.93
For Class 52 Rating, Deduct	-271.10	
For Class 54 Rating, Add	184.84	
For Class 55 Rating, Add	410.84	
40 05 19 00-0362 EA 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,042.74	927.08
For Class 52 Rating, Deduct	-290.19	
For Class 54 Rating, Add	197.85	
For Class 55 Rating, Add	439.76	
40 05 19 00-0363 EA 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,221.03	930.24
For Class 52 Rating, Deduct	-309.27	
For Class 54 Rating, Add	210.87	
For Class 55 Rating, Add	468.69	
40 05 19 00-0364 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,399.30	933.39
For Class 52 Rating, Deduct	-328.36	
For Class 54 Rating, Add	223.88	
For Class 55 Rating, Add	497.61	
40 05 19 00-0365 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,577.58	936.54
For Class 52 Rating, Deduct	-347.44	
For Class 54 Rating, Add	236.89	
For Class 55 Rating, Add	526.53	
40 05 19 00-0366 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,755.87	939.70
For Class 52 Rating, Deduct	-366.53	
For Class 54 Rating, Add	249.91	
For Class 55 Rating, Add	555.46	
40 05 19 00-0367 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,934.15	942.85
For Class 52 Rating, Deduct	-385.61	
For Class 54 Rating, Add	262.92	
For Class 55 Rating, Add	584.38	
40 05 19 00-0368 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,112.43	946.00
For Class 52 Rating, Deduct	-404.70	
For Class 54 Rating, Add	275.93	
For Class 55 Rating, Add	613.30	
40 05 19 00-0369 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,290.71	949.16
For Class 52 Rating, Deduct	-423.78	
For Class 54 Rating, Add	288.94	
For Class 55 Rating, Add	642.23	
40 05 19 00-0370 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,468.99	952.32
For Class 52 Rating, Deduct	-442.87	
For Class 54 Rating, Add	301.96	
For Class 55 Rating, Add	671.15	
40 05 19 00-0371 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,647.28	955.47
For Class 52 Rating, Deduct	-461.96	
For Class 54 Rating, Add	314.97	
For Class 55 Rating, Add	700.07	
40 05 19 00-0372 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,825.56	958.62
For Class 52 Rating, Deduct	-481.04	
For Class 54 Rating, Add	327.98	
For Class 55 Rating, Add	729.00	
40 05 19 00-0373 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,003.84	961.78
For Class 52 Rating, Deduct	-500.13	
For Class 54 Rating, Add	341.00	
For Class 55 Rating, Add	757.92	
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,182.12	964.93
For Class 52 Rating, Deduct	-519.21	
For Class 54 Rating, Add	354.01	
For Class 55 Rating, Add	786.84	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,360.40	968.08
For Class 52 Rating, Deduct	-538.30	
For Class 54 Rating, Add	367.02	
For Class 55 Rating, Add	815.76	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,538.68	971.24
For Class 52 Rating, Deduct	-557.38	
For Class 54 Rating, Add	380.03	
For Class 55 Rating, Add	844.69	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,716.97	974.39
<i>For Class 52 Rating, Deduct</i>	-576.47	
<i>For Class 54 Rating, Add</i>	393.05	
<i>For Class 55 Rating, Add</i>	873.61	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,895.24	977.54
<i>For Class 52 Rating, Deduct</i>	-595.55	
<i>For Class 54 Rating, Add</i>	406.06	
<i>For Class 55 Rating, Add</i>	902.53	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,073.52	980.69
<i>For Class 52 Rating, Deduct</i>	-614.64	
<i>For Class 54 Rating, Add</i>	419.07	
<i>For Class 55 Rating, Add</i>	931.46	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,251.81	983.85
<i>For Class 52 Rating, Deduct</i>	-633.72	
<i>For Class 54 Rating, Add</i>	432.08	
<i>For Class 55 Rating, Add</i>	960.38	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,430.09	987.00
<i>For Class 52 Rating, Deduct</i>	-652.81	
<i>For Class 54 Rating, Add</i>	445.10	
<i>For Class 55 Rating, Add</i>	989.30	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,608.37	990.15
<i>For Class 52 Rating, Deduct</i>	-671.89	
<i>For Class 54 Rating, Add</i>	458.11	
<i>For Class 55 Rating, Add</i>	1,018.23	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,786.65	993.31
<i>For Class 52 Rating, Deduct</i>	-690.98	
<i>For Class 54 Rating, Add</i>	471.12	
<i>For Class 55 Rating, Add</i>	1,047.15	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,964.93	996.46
<i>For Class 52 Rating, Deduct</i>	-710.07	
<i>For Class 54 Rating, Add</i>	484.14	
<i>For Class 55 Rating, Add</i>	1,076.07	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,143.21	999.61
<i>For Class 52 Rating, Deduct</i>	-729.15	
<i>For Class 54 Rating, Add</i>	497.15	
<i>For Class 55 Rating, Add</i>	1,104.99	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,321.50	1,002.76
<i>For Class 52 Rating, Deduct</i>	-748.24	
<i>For Class 54 Rating, Add</i>	510.16	
<i>For Class 55 Rating, Add</i>	1,133.92	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,499.78	1,005.92
<i>For Class 52 Rating, Deduct</i>	-767.32	
<i>For Class 54 Rating, Add</i>	523.17	
<i>For Class 55 Rating, Add</i>	1,162.84	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,678.04	1,009.07
<i>For Class 52 Rating, Deduct</i>	-786.41	
<i>For Class 54 Rating, Add</i>	536.19	
<i>For Class 55 Rating, Add</i>	1,191.76	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,937.56	1,065.83
<i>For Class 52 Rating, Deduct</i>	-805.49	
<i>For Class 54 Rating, Add</i>	549.20	
<i>For Class 55 Rating, Add</i>	1,220.69	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,115.84	1,068.99
<i>For Class 52 Rating, Deduct</i>	-824.58	
<i>For Class 54 Rating, Add</i>	562.21	
<i>For Class 55 Rating, Add</i>	1,249.61	
40 05 19 00-0391 EA 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,294.11	1,072.14
<i>For Class 52 Rating, Deduct</i>	-843.66	
<i>For Class 54 Rating, Add</i>	575.22	
<i>For Class 55 Rating, Add</i>	1,278.53	
40 05 19 00-0392 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,472.40	1,075.29
<i>For Class 52 Rating, Deduct</i>	-862.75	
<i>For Class 54 Rating, Add</i>	588.24	
<i>For Class 55 Rating, Add</i>	1,307.46	
40 05 19 00-0393 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,650.68	1,078.44
<i>For Class 52 Rating, Deduct</i>	-881.83	
<i>For Class 54 Rating, Add</i>	601.25	
<i>For Class 55 Rating, Add</i>	1,336.38	
40 05 19 00-0394 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,828.96	1,081.60
<i>For Class 52 Rating, Deduct</i>	-900.92	
<i>For Class 54 Rating, Add</i>	614.26	
<i>For Class 55 Rating, Add</i>	1,365.30	
40 05 19 00-0395 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,007.25	1,084.75
<i>For Class 52 Rating, Deduct</i>	-920.00	
<i>For Class 54 Rating, Add</i>	627.28	
<i>For Class 55 Rating, Add</i>	1,394.23	
40 05 19 00-0396 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,185.52	1,087.90
<i>For Class 52 Rating, Deduct</i>	-939.09	
<i>For Class 54 Rating, Add</i>	640.29	
<i>For Class 55 Rating, Add</i>	1,423.15	
40 05 19 00-0397 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,363.80	1,091.06
<i>For Class 52 Rating, Deduct</i>	-958.17	
<i>For Class 54 Rating, Add</i>	653.30	
<i>For Class 55 Rating, Add</i>	1,452.07	



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0398		30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,611.02	1,299.18
		For Class 52 Rating, Deduct	-400.68	
		For Class 54 Rating, Add	273.19	
		For Class 55 Rating, Add	607.21	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,866.40	1,302.33
		For Class 52 Rating, Deduct	-428.25	
		For Class 54 Rating, Add	291.99	
		For Class 55 Rating, Add	648.99	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,121.80	1,305.49
		For Class 52 Rating, Deduct	-455.82	
		For Class 54 Rating, Add	310.78	
		For Class 55 Rating, Add	690.77	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,377.20	1,308.65
		For Class 52 Rating, Deduct	-483.39	
		For Class 54 Rating, Add	329.58	
		For Class 55 Rating, Add	732.55	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,632.59	1,311.80
		For Class 52 Rating, Deduct	-510.95	
		For Class 54 Rating, Add	348.38	
		For Class 55 Rating, Add	774.32	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,887.99	1,314.95
		For Class 52 Rating, Deduct	-538.52	
		For Class 54 Rating, Add	367.17	
		For Class 55 Rating, Add	816.10	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,143.37	1,318.11
		For Class 52 Rating, Deduct	-566.09	
		For Class 54 Rating, Add	385.97	
		For Class 55 Rating, Add	857.88	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,398.77	1,321.26
		For Class 52 Rating, Deduct	-593.66	
		For Class 54 Rating, Add	404.77	
		For Class 55 Rating, Add	899.66	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,654.17	1,324.41
		For Class 52 Rating, Deduct	-621.22	
		For Class 54 Rating, Add	423.56	
		For Class 55 Rating, Add	941.44	
40 05 19 00-0408	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,909.56	1,327.56
		For Class 52 Rating, Deduct	-648.79	
		For Class 54 Rating, Add	442.36	
		For Class 55 Rating, Add	983.21	
40 05 19 00-0409	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,164.96	1,330.72
		For Class 52 Rating, Deduct	-676.36	
		For Class 54 Rating, Add	461.15	
		For Class 55 Rating, Add	1,024.99	
40 05 19 00-0410	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,420.34	1,333.87
		For Class 52 Rating, Deduct	-703.93	
		For Class 54 Rating, Add	479.95	
		For Class 55 Rating, Add	1,066.77	
40 05 19 00-0411	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,675.74	1,337.02
		For Class 52 Rating, Deduct	-731.49	
		For Class 54 Rating, Add	498.75	
		For Class 55 Rating, Add	1,108.55	
40 05 19 00-0412	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,931.14	1,340.18
		For Class 52 Rating, Deduct	-759.06	
		For Class 54 Rating, Add	517.54	
		For Class 55 Rating, Add	1,150.33	
40 05 19 00-0413	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,186.53	1,343.33
		For Class 52 Rating, Deduct	-786.63	
		For Class 54 Rating, Add	536.34	
		For Class 55 Rating, Add	1,192.10	
40 05 19 00-0414	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,441.93	1,346.48
		For Class 52 Rating, Deduct	-814.20	
		For Class 54 Rating, Add	555.14	
		For Class 55 Rating, Add	1,233.88	
40 05 19 00-0415	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,697.31	1,349.63
		For Class 52 Rating, Deduct	-841.77	
		For Class 54 Rating, Add	573.93	
		For Class 55 Rating, Add	1,275.66	
40 05 19 00-0416	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,952.71	1,352.79
		For Class 52 Rating, Deduct	-869.33	
		For Class 54 Rating, Add	592.73	
		For Class 55 Rating, Add	1,317.44	
40 05 19 00-0417	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,208.11	1,355.94
		For Class 52 Rating, Deduct	-896.90	
		For Class 54 Rating, Add	611.52	
		For Class 55 Rating, Add	1,359.21	
40 05 19 00-0418	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,463.50	1,359.09
		For Class 52 Rating, Deduct	-924.47	
		For Class 54 Rating, Add	630.32	
		For Class 55 Rating, Add	1,400.99	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,718.89	1,362.25
<i>For Class 52 Rating, Deduct</i>	-952.04	
<i>For Class 54 Rating, Add</i>	649.12	
<i>For Class 55 Rating, Add</i>	1,442.77	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,974.29	1,365.40
<i>For Class 52 Rating, Deduct</i>	-979.61	
<i>For Class 54 Rating, Add</i>	667.91	
<i>For Class 55 Rating, Add</i>	1,484.55	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,229.68	1,368.55
<i>For Class 52 Rating, Deduct</i>	-1,007.17	
<i>For Class 54 Rating, Add</i>	686.71	
<i>For Class 55 Rating, Add</i>	1,526.32	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,485.08	1,371.70
<i>For Class 52 Rating, Deduct</i>	-1,034.74	
<i>For Class 54 Rating, Add</i>	705.50	
<i>For Class 55 Rating, Add</i>	1,568.10	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,739.46	1,374.87
<i>For Class 52 Rating, Deduct</i>	-1,062.20	
<i>For Class 54 Rating, Add</i>	724.22	
<i>For Class 55 Rating, Add</i>	1,609.71	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,995.86	1,378.02
<i>For Class 52 Rating, Deduct</i>	-1,089.88	
<i>For Class 54 Rating, Add</i>	743.10	
<i>For Class 55 Rating, Add</i>	1,651.66	
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,251.26	1,381.17
<i>For Class 52 Rating, Deduct</i>	-1,117.44	
<i>For Class 54 Rating, Add</i>	761.89	
<i>For Class 55 Rating, Add</i>	1,693.44	
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,506.65	1,384.33
<i>For Class 52 Rating, Deduct</i>	-1,145.01	
<i>For Class 54 Rating, Add</i>	780.69	
<i>For Class 55 Rating, Add</i>	1,735.21	
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,762.05	1,387.48
<i>For Class 52 Rating, Deduct</i>	-1,172.58	
<i>For Class 54 Rating, Add</i>	799.49	
<i>For Class 55 Rating, Add</i>	1,776.99	
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,017.44	1,390.63
<i>For Class 52 Rating, Deduct</i>	-1,200.15	
<i>For Class 54 Rating, Add</i>	818.28	
<i>For Class 55 Rating, Add</i>	1,818.77	
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,272.83	1,393.78
<i>For Class 52 Rating, Deduct</i>	-1,227.71	
<i>For Class 54 Rating, Add</i>	837.08	
<i>For Class 55 Rating, Add</i>	1,860.55	
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,528.23	1,396.94
<i>For Class 52 Rating, Deduct</i>	-1,255.28	
<i>For Class 54 Rating, Add</i>	855.87	
<i>For Class 55 Rating, Add</i>	1,902.32	
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,783.62	1,400.09
<i>For Class 52 Rating, Deduct</i>	-1,282.85	
<i>For Class 54 Rating, Add</i>	874.67	
<i>For Class 55 Rating, Add</i>	1,944.10	
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,039.02	1,403.24
<i>For Class 52 Rating, Deduct</i>	-1,310.42	
<i>For Class 54 Rating, Add</i>	893.47	
<i>For Class 55 Rating, Add</i>	1,985.88	
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,294.41	1,406.40
<i>For Class 52 Rating, Deduct</i>	-1,337.99	
<i>For Class 54 Rating, Add</i>	912.26	
<i>For Class 55 Rating, Add</i>	2,027.66	
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,549.80	1,409.55
<i>For Class 52 Rating, Deduct</i>	-1,365.55	
<i>For Class 54 Rating, Add</i>	931.06	
<i>For Class 55 Rating, Add</i>	2,069.43	
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,805.20	1,412.70
<i>For Class 52 Rating, Deduct</i>	-1,393.12	
<i>For Class 54 Rating, Add</i>	949.86	
<i>For Class 55 Rating, Add</i>	2,111.21	
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,060.59	1,415.86
<i>For Class 52 Rating, Deduct</i>	-1,420.69	
<i>For Class 54 Rating, Add</i>	968.65	
<i>For Class 55 Rating, Add</i>	2,152.99	
<b>40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,706.23	1,646.05
<i>For Class 52 Rating, Deduct</i>	-573.34	
<i>For Class 54 Rating, Add</i>	390.92	
<i>For Class 55 Rating, Add</i>	868.88	
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,051.92	1,649.20
<i>For Class 52 Rating, Deduct</i>	-610.84	
<i>For Class 54 Rating, Add</i>	416.48	
<i>For Class 55 Rating, Add</i>	925.71	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440	EA		36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,397.62	1,652.35
			<i>For Class 52 Rating, Deduct</i>	-648.34	
			<i>For Class 54 Rating, Add</i>	442.05	
			<i>For Class 55 Rating, Add</i>	982.54	
40 05 19 00-0441	EA		36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,743.31	1,655.51
			<i>For Class 52 Rating, Deduct</i>	-685.85	
			<i>For Class 54 Rating, Add</i>	467.62	
			<i>For Class 55 Rating, Add</i>	1,039.37	
40 05 19 00-0442	EA		36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,089.01	1,658.67
			<i>For Class 52 Rating, Deduct</i>	-723.35	
			<i>For Class 54 Rating, Add</i>	493.19	
			<i>For Class 55 Rating, Add</i>	1,096.20	
40 05 19 00-0443	EA		36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,434.71	1,661.82
			<i>For Class 52 Rating, Deduct</i>	-760.85	
			<i>For Class 54 Rating, Add</i>	518.76	
			<i>For Class 55 Rating, Add</i>	1,153.03	
40 05 19 00-0444	EA		36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,780.41	1,664.97
			<i>For Class 52 Rating, Deduct</i>	-798.35	
			<i>For Class 54 Rating, Add</i>	544.33	
			<i>For Class 55 Rating, Add</i>	1,209.86	
40 05 19 00-0445	EA		36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,126.11	1,668.13
			<i>For Class 52 Rating, Deduct</i>	-835.85	
			<i>For Class 54 Rating, Add</i>	569.90	
			<i>For Class 55 Rating, Add</i>	1,266.69	
40 05 19 00-0446	EA		36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,471.80	1,671.28
			<i>For Class 52 Rating, Deduct</i>	-873.35	
			<i>For Class 54 Rating, Add</i>	595.47	
			<i>For Class 55 Rating, Add</i>	1,323.52	
40 05 19 00-0447	EA		36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,817.50	1,674.43
			<i>For Class 52 Rating, Deduct</i>	-910.85	
			<i>For Class 54 Rating, Add</i>	621.04	
			<i>For Class 55 Rating, Add</i>	1,380.36	
40 05 19 00-0448	EA		36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,163.20	1,677.59
			<i>For Class 52 Rating, Deduct</i>	-948.35	
			<i>For Class 54 Rating, Add</i>	646.61	
			<i>For Class 55 Rating, Add</i>	1,437.19	
40 05 19 00-0449	EA		36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,508.89	1,680.74
			<i>For Class 52 Rating, Deduct</i>	-985.86	
			<i>For Class 54 Rating, Add</i>	672.17	
			<i>For Class 55 Rating, Add</i>	1,494.02	
40 05 19 00-0450	EA		36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,854.58	1,683.89
			<i>For Class 52 Rating, Deduct</i>	-1,023.36	
			<i>For Class 54 Rating, Add</i>	697.74	
			<i>For Class 55 Rating, Add</i>	1,550.85	
40 05 19 00-0451	EA		36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,200.27	1,687.05
			<i>For Class 52 Rating, Deduct</i>	-1,060.86	
			<i>For Class 54 Rating, Add</i>	723.31	
			<i>For Class 55 Rating, Add</i>	1,607.68	
40 05 19 00-0452	EA		36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,545.97	1,690.20
			<i>For Class 52 Rating, Deduct</i>	-1,098.36	
			<i>For Class 54 Rating, Add</i>	748.88	
			<i>For Class 55 Rating, Add</i>	1,664.51	
40 05 19 00-0453	EA		36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,891.67	1,693.35
			<i>For Class 52 Rating, Deduct</i>	-1,135.86	
			<i>For Class 54 Rating, Add</i>	774.45	
			<i>For Class 55 Rating, Add</i>	1,721.34	
40 05 19 00-0454	EA		36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,237.37	1,696.50
			<i>For Class 52 Rating, Deduct</i>	-1,173.36	
			<i>For Class 54 Rating, Add</i>	800.02	
			<i>For Class 55 Rating, Add</i>	1,778.17	
40 05 19 00-0455	EA		36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,583.07	1,699.66
			<i>For Class 52 Rating, Deduct</i>	-1,210.86	
			<i>For Class 54 Rating, Add</i>	825.59	
			<i>For Class 55 Rating, Add</i>	1,835.01	
40 05 19 00-0456	EA		36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,928.76	1,702.81
			<i>For Class 52 Rating, Deduct</i>	-1,248.36	
			<i>For Class 54 Rating, Add</i>	851.16	
			<i>For Class 55 Rating, Add</i>	1,891.84	
40 05 19 00-0457	EA		36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,274.46	1,705.96
			<i>For Class 52 Rating, Deduct</i>	-1,285.86	
			<i>For Class 54 Rating, Add</i>	876.73	
			<i>For Class 55 Rating, Add</i>	1,948.67	
40 05 19 00-0458	EA		36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,620.16	1,709.12
			<i>For Class 52 Rating, Deduct</i>	-1,323.36	
			<i>For Class 54 Rating, Add</i>	902.29	
			<i>For Class 55 Rating, Add</i>	2,005.50	
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,965.86	1,712.27
			<i>For Class 52 Rating, Deduct</i>	-1,360.87	
			<i>For Class 54 Rating, Add</i>	927.86	
			<i>For Class 55 Rating, Add</i>	2,062.33	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,311.55	1,715.42
			<i>For Class 52 Rating, Deduct</i>	-1,398.37	
			<i>For Class 54 Rating, Add</i>	953.43	
			<i>For Class 55 Rating, Add</i>	2,119.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,657.24	1,718.57
<i>For Class 52 Rating, Deduct</i>	-1,435.87	
<i>For Class 54 Rating, Add</i>	979.00	
<i>For Class 55 Rating, Add</i>	2,175.99	
40 05 19 00-0462 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,002.94	1,721.73
<i>For Class 52 Rating, Deduct</i>	-1,473.37	
<i>For Class 54 Rating, Add</i>	1,004.57	
<i>For Class 55 Rating, Add</i>	2,232.82	
40 05 19 00-0463 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,348.64	1,724.88
<i>For Class 52 Rating, Deduct</i>	-1,510.87	
<i>For Class 54 Rating, Add</i>	1,030.14	
<i>For Class 55 Rating, Add</i>	2,289.65	
40 05 19 00-0464 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,694.34	1,728.04
<i>For Class 52 Rating, Deduct</i>	-1,548.37	
<i>For Class 54 Rating, Add</i>	1,055.71	
<i>For Class 55 Rating, Add</i>	2,346.49	
40 05 19 00-0465 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,040.04	1,731.20
<i>For Class 52 Rating, Deduct</i>	-1,585.87	
<i>For Class 54 Rating, Add</i>	1,081.28	
<i>For Class 55 Rating, Add</i>	2,403.32	
40 05 19 00-0466 EA 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,385.73	1,734.35
<i>For Class 52 Rating, Deduct</i>	-1,623.37	
<i>For Class 54 Rating, Add</i>	1,106.85	
<i>For Class 55 Rating, Add</i>	2,460.15	
40 05 19 00-0467 EA 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,731.43	1,737.50
<i>For Class 52 Rating, Deduct</i>	-1,660.87	
<i>For Class 54 Rating, Add</i>	1,132.41	
<i>For Class 55 Rating, Add</i>	2,516.98	
40 05 19 00-0468 EA 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,077.13	1,740.65
<i>For Class 52 Rating, Deduct</i>	-1,698.38	
<i>For Class 54 Rating, Add</i>	1,157.98	
<i>For Class 55 Rating, Add</i>	2,573.81	
40 05 19 00-0469 EA 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,422.83	1,743.81
<i>For Class 52 Rating, Deduct</i>	-1,735.88	
<i>For Class 54 Rating, Add</i>	1,183.55	
<i>For Class 55 Rating, Add</i>	2,630.64	
40 05 19 00-0470 EA 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,768.52	1,746.96
<i>For Class 52 Rating, Deduct</i>	-1,773.38	
<i>For Class 54 Rating, Add</i>	1,209.12	
<i>For Class 55 Rating, Add</i>	2,687.47	
40 05 19 00-0471 EA 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,114.21	1,750.11
<i>For Class 52 Rating, Deduct</i>	-1,810.88	
<i>For Class 54 Rating, Add</i>	1,234.69	
<i>For Class 55 Rating, Add</i>	2,744.30	
40 05 19 00-0472 EA 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,459.91	1,753.27
<i>For Class 52 Rating, Deduct</i>	-1,848.38	
<i>For Class 54 Rating, Add</i>	1,260.26	
<i>For Class 55 Rating, Add</i>	2,801.14	
40 05 19 00-0473 EA 36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,805.61	1,756.42
<i>For Class 52 Rating, Deduct</i>	-1,885.88	
<i>For Class 54 Rating, Add</i>	1,285.83	
<i>For Class 55 Rating, Add</i>	2,857.97	
40 05 19 00-0474 EA 36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,151.31	1,759.57
<i>For Class 52 Rating, Deduct</i>	-1,923.38	
<i>For Class 54 Rating, Add</i>	1,311.40	
<i>For Class 55 Rating, Add</i>	2,914.80	
40 05 19 00-0475 EA 36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,497.00	1,762.72
<i>For Class 52 Rating, Deduct</i>	-1,960.88	
<i>For Class 54 Rating, Add</i>	1,336.97	
<i>For Class 55 Rating, Add</i>	2,971.63	
<b>40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477 EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,097.13	2,074.90
<i>For Class 52 Rating, Deduct</i>	-764.87	
<i>For Class 54 Rating, Add</i>	521.50	
<i>For Class 55 Rating, Add</i>	1,159.12	
40 05 19 00-0478 EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,611.26	2,078.06
<i>For Class 52 Rating, Deduct</i>	-820.89	
<i>For Class 54 Rating, Add</i>	559.70	
<i>For Class 55 Rating, Add</i>	1,244.03	
40 05 19 00-0479 EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,119.30	2,081.22
<i>For Class 52 Rating, Deduct</i>	-876.25	
<i>For Class 54 Rating, Add</i>	597.45	
<i>For Class 55 Rating, Add</i>	1,327.92	
40 05 19 00-0480 EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,632.41	2,084.37
<i>For Class 52 Rating, Deduct</i>	-932.17	
<i>For Class 54 Rating, Add</i>	635.57	
<i>For Class 55 Rating, Add</i>	1,412.66	
40 05 19 00-0481 EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,140.44	2,087.52
<i>For Class 52 Rating, Deduct</i>	-987.53	
<i>For Class 54 Rating, Add</i>	673.31	
<i>For Class 55 Rating, Add</i>	1,496.55	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,654.57	2,090.68
			<i>For Class 52 Rating, Deduct</i>	-1,043.56	
			<i>For Class 54 Rating, Add</i>	711.52	
			<i>For Class 55 Rating, Add</i>	1,581.46	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,161.60	2,093.83
			<i>For Class 52 Rating, Deduct</i>	-1,098.80	
			<i>For Class 54 Rating, Add</i>	749.18	
			<i>For Class 55 Rating, Add</i>	1,665.19	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,675.73	2,096.98
			<i>For Class 52 Rating, Deduct</i>	-1,154.83	
			<i>For Class 54 Rating, Add</i>	787.39	
			<i>For Class 55 Rating, Add</i>	1,750.10	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,183.77	2,100.14
			<i>For Class 52 Rating, Deduct</i>	-1,210.19	
			<i>For Class 54 Rating, Add</i>	825.13	
			<i>For Class 55 Rating, Add</i>	1,833.99	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,696.88	2,103.29
			<i>For Class 52 Rating, Deduct</i>	-1,266.11	
			<i>For Class 54 Rating, Add</i>	863.26	
			<i>For Class 55 Rating, Add</i>	1,918.73	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,204.92	2,106.44
			<i>For Class 52 Rating, Deduct</i>	-1,321.47	
			<i>For Class 54 Rating, Add</i>	901.00	
			<i>For Class 55 Rating, Add</i>	2,002.62	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,718.03	2,109.59
			<i>For Class 52 Rating, Deduct</i>	-1,377.38	
			<i>For Class 54 Rating, Add</i>	939.13	
			<i>For Class 55 Rating, Add</i>	2,087.36	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,226.07	2,112.75
			<i>For Class 52 Rating, Deduct</i>	-1,432.74	
			<i>For Class 54 Rating, Add</i>	976.87	
			<i>For Class 55 Rating, Add</i>	2,171.26	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,735.13	2,115.90
			<i>For Class 52 Rating, Deduct</i>	-1,488.21	
			<i>For Class 54 Rating, Add</i>	1,014.69	
			<i>For Class 55 Rating, Add</i>	2,255.32	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,247.22	2,119.05
			<i>For Class 52 Rating, Deduct</i>	-1,544.02	
			<i>For Class 54 Rating, Add</i>	1,052.74	
			<i>For Class 55 Rating, Add</i>	2,339.89	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,755.26	2,122.21
			<i>For Class 52 Rating, Deduct</i>	-1,599.38	
			<i>For Class 54 Rating, Add</i>	1,090.48	
			<i>For Class 55 Rating, Add</i>	2,423.78	
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,269.39	2,125.36
			<i>For Class 52 Rating, Deduct</i>	-1,655.41	
			<i>For Class 54 Rating, Add</i>	1,128.69	
			<i>For Class 55 Rating, Add</i>	2,508.69	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,777.42	2,128.51
			<i>For Class 52 Rating, Deduct</i>	-1,710.76	
			<i>For Class 54 Rating, Add</i>	1,166.43	
			<i>For Class 55 Rating, Add</i>	2,592.59	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,290.53	2,131.67
			<i>For Class 52 Rating, Deduct</i>	-1,766.68	
			<i>For Class 54 Rating, Add</i>	1,204.56	
			<i>For Class 55 Rating, Add</i>	2,677.33	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,798.57	2,134.82
			<i>For Class 52 Rating, Deduct</i>	-1,822.04	
			<i>For Class 54 Rating, Add</i>	1,242.30	
			<i>For Class 55 Rating, Add</i>	2,761.22	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,312.70	2,137.97
			<i>For Class 52 Rating, Deduct</i>	-1,878.07	
			<i>For Class 54 Rating, Add</i>	1,280.50	
			<i>For Class 55 Rating, Add</i>	2,846.13	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,820.74	2,141.12
			<i>For Class 52 Rating, Deduct</i>	-1,933.43	
			<i>For Class 54 Rating, Add</i>	1,318.25	
			<i>For Class 55 Rating, Add</i>	2,930.02	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,333.85	2,144.28
			<i>For Class 52 Rating, Deduct</i>	-1,989.34	
			<i>For Class 54 Rating, Add</i>	1,356.37	
			<i>For Class 55 Rating, Add</i>	3,014.76	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,841.88	2,147.43
			<i>For Class 52 Rating, Deduct</i>	-2,044.70	
			<i>For Class 54 Rating, Add</i>	1,394.12	
			<i>For Class 55 Rating, Add</i>	3,098.65	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,356.01	2,150.59
			<i>For Class 52 Rating, Deduct</i>	-2,100.73	
			<i>For Class 54 Rating, Add</i>	1,432.32	
			<i>For Class 55 Rating, Add</i>	3,183.56	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,864.06	2,153.75
			<i>For Class 52 Rating, Deduct</i>	-2,156.09	
			<i>For Class 54 Rating, Add</i>	1,470.06	
			<i>For Class 55 Rating, Add</i>	3,267.46	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503 EA 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,376.16	2,156.90
<i>For Class 52 Rating, Deduct</i>	-2,211.90	
<i>For Class 54 Rating, Add</i>	1,508.11	
<i>For Class 55 Rating, Add</i>	3,352.03	
40 05 19 00-0504 EA 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,885.21	2,160.05
<i>For Class 52 Rating, Deduct</i>	-2,267.37	
<i>For Class 54 Rating, Add</i>	1,545.93	
<i>For Class 55 Rating, Add</i>	3,436.09	
40 05 19 00-0505 EA 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,291.78	2,163.20
<i>For Class 52 Rating, Deduct</i>	-2,311.56	
<i>For Class 54 Rating, Add</i>	1,576.07	
<i>For Class 55 Rating, Add</i>	3,503.07	
40 05 19 00-0506 EA 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,906.36	2,166.36
<i>For Class 52 Rating, Deduct</i>	-2,378.64	
<i>For Class 54 Rating, Add</i>	1,621.80	
<i>For Class 55 Rating, Add</i>	3,604.72	
40 05 19 00-0507 EA 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,414.40	2,169.51
<i>For Class 52 Rating, Deduct</i>	-2,434.00	
<i>For Class 54 Rating, Add</i>	1,659.55	
<i>For Class 55 Rating, Add</i>	3,688.62	
40 05 19 00-0508 EA 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,927.51	2,172.66
<i>For Class 52 Rating, Deduct</i>	-2,489.92	
<i>For Class 54 Rating, Add</i>	1,697.67	
<i>For Class 55 Rating, Add</i>	3,773.35	
40 05 19 00-0509 EA 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,435.56	2,175.82
<i>For Class 52 Rating, Deduct</i>	-2,545.28	
<i>For Class 54 Rating, Add</i>	1,735.42	
<i>For Class 55 Rating, Add</i>	3,857.25	
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,949.67	2,178.97
<i>For Class 52 Rating, Deduct</i>	-2,601.30	
<i>For Class 54 Rating, Add</i>	1,773.62	
<i>For Class 55 Rating, Add</i>	3,942.16	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,456.70	2,182.12
<i>For Class 52 Rating, Deduct</i>	-2,656.55	
<i>For Class 54 Rating, Add</i>	1,811.28	
<i>For Class 55 Rating, Add</i>	4,025.88	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,970.83	2,185.27
<i>For Class 52 Rating, Deduct</i>	-2,712.58	
<i>For Class 54 Rating, Add</i>	1,849.49	
<i>For Class 55 Rating, Add</i>	4,110.79	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,478.87	2,188.43
<i>For Class 52 Rating, Deduct</i>	-2,767.94	
<i>For Class 54 Rating, Add</i>	1,887.23	
<i>For Class 55 Rating, Add</i>	4,194.68	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,991.99	2,191.58
<i>For Class 52 Rating, Deduct</i>	-2,823.86	
<i>For Class 54 Rating, Add</i>	1,925.36	
<i>For Class 55 Rating, Add</i>	4,279.42	
<b>40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,669.04	2,607.82
<i>For Class 52 Rating, Deduct</i>	-958.96	
<i>For Class 54 Rating, Add</i>	653.83	
<i>For Class 55 Rating, Add</i>	1,453.26	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,415.51	2,610.98
<i>For Class 52 Rating, Deduct</i>	-1,040.54	
<i>For Class 54 Rating, Add</i>	709.46	
<i>For Class 55 Rating, Add</i>	1,576.90	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,160.98	2,614.13
<i>For Class 52 Rating, Deduct</i>	-1,122.02	
<i>For Class 54 Rating, Add</i>	765.01	
<i>For Class 55 Rating, Add</i>	1,700.37	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,912.53	2,617.28
<i>For Class 52 Rating, Deduct</i>	-1,204.16	
<i>For Class 54 Rating, Add</i>	821.02	
<i>For Class 55 Rating, Add</i>	1,824.86	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,659.01	2,620.44
<i>For Class 52 Rating, Deduct</i>	-1,285.75	
<i>For Class 54 Rating, Add</i>	876.65	
<i>For Class 55 Rating, Add</i>	1,948.50	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,405.49	2,623.59
<i>For Class 52 Rating, Deduct</i>	-1,367.34	
<i>For Class 54 Rating, Add</i>	932.28	
<i>For Class 55 Rating, Add</i>	2,072.14	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,156.03	2,626.74
<i>For Class 52 Rating, Deduct</i>	-1,449.37	
<i>For Class 54 Rating, Add</i>	988.21	
<i>For Class 55 Rating, Add</i>	2,196.46	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,903.52	2,629.89
<i>For Class 52 Rating, Deduct</i>	-1,531.07	
<i>For Class 54 Rating, Add</i>	1,043.91	
<i>For Class 55 Rating, Add</i>	2,320.27	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,648.99	2,633.05
			<i>For Class 52 Rating, Deduct</i>	-1,612.55	
			<i>For Class 54 Rating, Add</i>	1,099.46	
			<i>For Class 55 Rating, Add</i>	2,443.74	
40 05 19 00-0525	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,400.54	2,636.20
			<i>For Class 52 Rating, Deduct</i>	-1,694.69	
			<i>For Class 54 Rating, Add</i>	1,155.47	
			<i>For Class 55 Rating, Add</i>	2,568.23	
40 05 19 00-0526	EA		48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,147.03	2,639.35
			<i>For Class 52 Rating, Deduct</i>	-1,776.28	
			<i>For Class 54 Rating, Add</i>	1,211.10	
			<i>For Class 55 Rating, Add</i>	2,691.87	
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,898.57	2,642.52
			<i>For Class 52 Rating, Deduct</i>	-1,858.42	
			<i>For Class 54 Rating, Add</i>	1,267.11	
			<i>For Class 55 Rating, Add</i>	2,816.36	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,644.04	2,645.67
			<i>For Class 52 Rating, Deduct</i>	-1,939.90	
			<i>For Class 54 Rating, Add</i>	1,322.66	
			<i>For Class 55 Rating, Add</i>	2,939.83	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,390.52	2,648.82
			<i>For Class 52 Rating, Deduct</i>	-2,021.49	
			<i>For Class 54 Rating, Add</i>	1,378.29	
			<i>For Class 55 Rating, Add</i>	3,063.47	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,142.07	2,651.97
			<i>For Class 52 Rating, Deduct</i>	-2,103.63	
			<i>For Class 54 Rating, Add</i>	1,434.29	
			<i>For Class 55 Rating, Add</i>	3,187.96	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,888.55	2,655.13
			<i>For Class 52 Rating, Deduct</i>	-2,185.22	
			<i>For Class 54 Rating, Add</i>	1,489.92	
			<i>For Class 55 Rating, Add</i>	3,311.60	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,634.01	2,658.28
			<i>For Class 52 Rating, Deduct</i>	-2,266.70	
			<i>For Class 54 Rating, Add</i>	1,545.47	
			<i>For Class 55 Rating, Add</i>	3,435.07	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,385.57	2,661.43
			<i>For Class 52 Rating, Deduct</i>	-2,348.84	
			<i>For Class 54 Rating, Add</i>	1,601.48	
			<i>For Class 55 Rating, Add</i>	3,559.56	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	26,132.05	2,664.59
			<i>For Class 52 Rating, Deduct</i>	-2,430.43	
			<i>For Class 54 Rating, Add</i>	1,657.11	
			<i>For Class 55 Rating, Add</i>	3,683.20	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	26,877.52	2,667.74
			<i>For Class 52 Rating, Deduct</i>	-2,511.90	
			<i>For Class 54 Rating, Add</i>	1,712.66	
			<i>For Class 55 Rating, Add</i>	3,806.68	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	27,629.06	2,670.89
			<i>For Class 52 Rating, Deduct</i>	-2,594.05	
			<i>For Class 54 Rating, Add</i>	1,768.67	
			<i>For Class 55 Rating, Add</i>	3,931.16	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	28,376.56	2,674.05
			<i>For Class 52 Rating, Deduct</i>	-2,675.75	
			<i>For Class 54 Rating, Add</i>	1,824.37	
			<i>For Class 55 Rating, Add</i>	4,054.97	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	29,122.03	2,677.20
			<i>For Class 52 Rating, Deduct</i>	-2,757.22	
			<i>For Class 54 Rating, Add</i>	1,879.93	
			<i>For Class 55 Rating, Add</i>	4,178.45	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	29,873.58	2,680.35
			<i>For Class 52 Rating, Deduct</i>	-2,839.37	
			<i>For Class 54 Rating, Add</i>	1,935.93	
			<i>For Class 55 Rating, Add</i>	4,302.93	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	30,620.06	2,683.50
			<i>For Class 52 Rating, Deduct</i>	-2,920.96	
			<i>For Class 54 Rating, Add</i>	1,991.56	
			<i>For Class 55 Rating, Add</i>	4,426.58	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	31,365.52	2,686.66
			<i>For Class 52 Rating, Deduct</i>	-3,002.43	
			<i>For Class 54 Rating, Add</i>	2,047.11	
			<i>For Class 55 Rating, Add</i>	4,550.05	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	32,117.08	2,689.81
			<i>For Class 52 Rating, Deduct</i>	-3,084.58	
			<i>For Class 54 Rating, Add</i>	2,103.12	
			<i>For Class 55 Rating, Add</i>	4,674.54	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	32,863.56	2,692.96
			<i>For Class 52 Rating, Deduct</i>	-3,166.16	
			<i>For Class 54 Rating, Add</i>	2,158.75	
			<i>For Class 55 Rating, Add</i>	4,798.18	
40 05 19 00-0544	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	33,518.72	2,696.12
			<i>For Class 52 Rating, Deduct</i>	-3,237.71	
			<i>For Class 54 Rating, Add</i>	2,207.53	
			<i>For Class 55 Rating, Add</i>	4,906.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,361.59	2,699.27
<i>For Class 52 Rating, Deduct</i>	-3,329.90	
<i>For Class 54 Rating, Add</i>	2,270.38	
<i>For Class 55 Rating, Add</i>	5,046.31	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,107.05	2,702.42
<i>For Class 52 Rating, Deduct</i>	-3,411.37	
<i>For Class 54 Rating, Add</i>	2,325.94	
<i>For Class 55 Rating, Add</i>	5,169.78	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,859.62	2,705.57
<i>For Class 52 Rating, Deduct</i>	-3,493.63	
<i>For Class 54 Rating, Add</i>	2,382.02	
<i>For Class 55 Rating, Add</i>	5,294.44	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	36,605.09	2,708.73
<i>For Class 52 Rating, Deduct</i>	-3,575.10	
<i>For Class 54 Rating, Add</i>	2,437.57	
<i>For Class 55 Rating, Add</i>	5,417.91	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	37,350.56	2,711.88
<i>For Class 52 Rating, Deduct</i>	-3,656.58	
<i>For Class 54 Rating, Add</i>	2,493.12	
<i>For Class 55 Rating, Add</i>	5,541.38	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	38,103.13	2,715.04
<i>For Class 52 Rating, Deduct</i>	-3,738.84	
<i>For Class 54 Rating, Add</i>	2,549.21	
<i>For Class 55 Rating, Add</i>	5,666.04	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	38,848.58	2,718.20
<i>For Class 52 Rating, Deduct</i>	-3,820.31	
<i>For Class 54 Rating, Add</i>	2,604.76	
<i>For Class 55 Rating, Add</i>	5,789.51	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	39,595.06	2,721.35
<i>For Class 52 Rating, Deduct</i>	-3,901.90	
<i>For Class 54 Rating, Add</i>	2,660.39	
<i>For Class 55 Rating, Add</i>	5,913.15	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	40,346.62	2,724.50
<i>For Class 52 Rating, Deduct</i>	-3,984.04	
<i>For Class 54 Rating, Add</i>	2,716.39	
<i>For Class 55 Rating, Add</i>	6,037.64	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
 40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	391.12	144.29
<i>For Class 52 Rating, Deduct</i>	-18.97	
<i>For Class 54 Rating, Add</i>	12.94	
<i>For Class 55 Rating, Add</i>	28.75	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	421.32	146.82
<i>For Class 52 Rating, Deduct</i>	-21.88	
<i>For Class 54 Rating, Add</i>	14.92	
<i>For Class 55 Rating, Add</i>	33.15	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	451.53	149.35
<i>For Class 52 Rating, Deduct</i>	-24.78	
<i>For Class 54 Rating, Add</i>	16.89	
<i>For Class 55 Rating, Add</i>	37.55	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	481.73	151.87
<i>For Class 52 Rating, Deduct</i>	-27.68	
<i>For Class 54 Rating, Add</i>	18.87	
<i>For Class 55 Rating, Add</i>	41.95	
40 05 19 00-0560 EA 4" Flanged x Grooved (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	511.93	154.39
<i>For Class 52 Rating, Deduct</i>	-30.58	
<i>For Class 54 Rating, Add</i>	20.85	
<i>For Class 55 Rating, Add</i>	46.34	
40 05 19 00-0561 EA 4" Flanged x Grooved (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	542.13	156.92
<i>For Class 52 Rating, Deduct</i>	-33.48	
<i>For Class 54 Rating, Add</i>	22.83	
<i>For Class 55 Rating, Add</i>	50.74	
40 05 19 00-0562 EA 4" Flanged x Grooved (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	572.34	159.44
<i>For Class 52 Rating, Deduct</i>	-36.38	
<i>For Class 54 Rating, Add</i>	24.81	
<i>For Class 55 Rating, Add</i>	55.14	
40 05 19 00-0563 EA 4" Flanged x Grooved (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	602.54	161.96
<i>For Class 52 Rating, Deduct</i>	-39.29	
<i>For Class 54 Rating, Add</i>	26.79	
<i>For Class 55 Rating, Add</i>	59.54	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	632.74	164.48
			For Class 52 Rating, Deduct	-42.19	
			For Class 54 Rating, Add	28.76	
			For Class 55 Rating, Add	63.93	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	662.94	167.01
			For Class 52 Rating, Deduct	-45.09	
			For Class 54 Rating, Add	30.74	
			For Class 55 Rating, Add	68.33	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	693.15	169.53
			For Class 52 Rating, Deduct	-47.99	
			For Class 54 Rating, Add	32.72	
			For Class 55 Rating, Add	72.73	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	723.36	172.05
			For Class 52 Rating, Deduct	-50.89	
			For Class 54 Rating, Add	34.70	
			For Class 55 Rating, Add	77.13	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	753.56	174.57
			For Class 52 Rating, Deduct	-53.80	
			For Class 54 Rating, Add	36.68	
			For Class 55 Rating, Add	81.53	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	783.76	177.10
			For Class 52 Rating, Deduct	-56.70	
			For Class 54 Rating, Add	38.66	
			For Class 55 Rating, Add	85.92	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	813.96	179.62
			For Class 52 Rating, Deduct	-59.60	
			For Class 54 Rating, Add	40.64	
			For Class 55 Rating, Add	90.32	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	844.17	182.14
			For Class 52 Rating, Deduct	-62.50	
			For Class 54 Rating, Add	42.62	
			For Class 55 Rating, Add	94.72	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	874.37	184.66
			For Class 52 Rating, Deduct	-65.40	
			For Class 54 Rating, Add	44.59	
			For Class 55 Rating, Add	99.12	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	904.57	187.18
			For Class 52 Rating, Deduct	-68.31	
			For Class 54 Rating, Add	46.57	
			For Class 55 Rating, Add	103.51	
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	934.77	189.71
			For Class 52 Rating, Deduct	-71.21	
			For Class 54 Rating, Add	48.55	
			For Class 55 Rating, Add	107.91	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	964.98	192.23
			For Class 52 Rating, Deduct	-74.11	
			For Class 54 Rating, Add	50.53	
			For Class 55 Rating, Add	112.31	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	995.18	194.75
			For Class 52 Rating, Deduct	-77.01	
			For Class 54 Rating, Add	52.51	
			For Class 55 Rating, Add	116.71	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,025.38	197.27
			For Class 52 Rating, Deduct	-79.91	
			For Class 54 Rating, Add	54.49	
			For Class 55 Rating, Add	121.10	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,055.58	199.80
			For Class 52 Rating, Deduct	-82.81	
			For Class 54 Rating, Add	56.46	
			For Class 55 Rating, Add	125.50	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,085.79	202.32
			For Class 52 Rating, Deduct	-85.72	
			For Class 54 Rating, Add	58.44	
			For Class 55 Rating, Add	129.90	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,115.99	204.84
			For Class 52 Rating, Deduct	-88.62	
			For Class 54 Rating, Add	60.42	
			For Class 55 Rating, Add	134.30	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,146.19	207.36
<i>For Class 52 Rating, Deduct</i>	-91.52	
<i>For Class 54 Rating, Add</i>	62.40	
<i>For Class 55 Rating, Add</i>	138.69	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,176.40	209.89
<i>For Class 52 Rating, Deduct</i>	-94.42	
<i>For Class 54 Rating, Add</i>	64.38	
<i>For Class 55 Rating, Add</i>	143.09	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,206.60	212.41
<i>For Class 52 Rating, Deduct</i>	-97.32	
<i>For Class 54 Rating, Add</i>	66.36	
<i>For Class 55 Rating, Add</i>	147.49	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,236.81	214.93
<i>For Class 52 Rating, Deduct</i>	-100.23	
<i>For Class 54 Rating, Add</i>	68.34	
<i>For Class 55 Rating, Add</i>	151.89	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,267.01	217.46
<i>For Class 52 Rating, Deduct</i>	-103.13	
<i>For Class 54 Rating, Add</i>	70.31	
<i>For Class 55 Rating, Add</i>	156.29	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,297.21	219.98
<i>For Class 52 Rating, Deduct</i>	-106.03	
<i>For Class 54 Rating, Add</i>	72.29	
<i>For Class 55 Rating, Add</i>	160.68	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,327.41	222.51
<i>For Class 52 Rating, Deduct</i>	-108.93	
<i>For Class 54 Rating, Add</i>	74.27	
<i>For Class 55 Rating, Add</i>	165.08	
40 05 19 00-0588 EA 4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,357.62	225.03
<i>For Class 52 Rating, Deduct</i>	-111.83	
<i>For Class 54 Rating, Add</i>	76.25	
<i>For Class 55 Rating, Add</i>	169.48	
40 05 19 00-0589 EA 4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,387.82	227.55
<i>For Class 52 Rating, Deduct</i>	-114.74	
<i>For Class 54 Rating, Add</i>	78.23	
<i>For Class 55 Rating, Add</i>	173.88	
40 05 19 00-0590 EA 4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,418.02	230.07
<i>For Class 52 Rating, Deduct</i>	-117.64	
<i>For Class 54 Rating, Add</i>	80.21	
<i>For Class 55 Rating, Add</i>	178.27	
40 05 19 00-0591 EA 4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,448.22	232.60
<i>For Class 52 Rating, Deduct</i>	-120.54	
<i>For Class 54 Rating, Add</i>	82.19	
<i>For Class 55 Rating, Add</i>	182.67	
40 05 19 00-0592 EA 4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,478.43	235.12
<i>For Class 52 Rating, Deduct</i>	-123.44	
<i>For Class 54 Rating, Add</i>	84.16	
<i>For Class 55 Rating, Add</i>	187.07	
40 05 19 00-0593 EA 4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,508.63	237.64
<i>For Class 52 Rating, Deduct</i>	-126.34	
<i>For Class 54 Rating, Add</i>	86.14	
<i>For Class 55 Rating, Add</i>	191.47	
40 05 19 00-0594 EA 4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,538.83	240.16
<i>For Class 52 Rating, Deduct</i>	-129.24	
<i>For Class 54 Rating, Add</i>	88.12	
<i>For Class 55 Rating, Add</i>	195.86	
<b>40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0596 EA 6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	489.29	181.64
<i>For Class 52 Rating, Deduct</i>	-23.55	
<i>For Class 54 Rating, Add</i>	16.06	
<i>For Class 55 Rating, Add</i>	35.69	
40 05 19 00-0597 EA 6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	525.58	184.16
<i>For Class 52 Rating, Deduct</i>	-27.12	
<i>For Class 54 Rating, Add</i>	18.49	
<i>For Class 55 Rating, Add</i>	41.10	



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	561.87	186.68
			For Class 52 Rating, Deduct	-30.69	
			For Class 54 Rating, Add	20.93	
			For Class 55 Rating, Add	46.51	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	598.16	189.20
			For Class 52 Rating, Deduct	-34.26	
			For Class 54 Rating, Add	23.36	
			For Class 55 Rating, Add	51.93	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	634.45	191.73
			For Class 52 Rating, Deduct	-37.84	
			For Class 54 Rating, Add	25.80	
			For Class 55 Rating, Add	57.34	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	670.74	194.25
			For Class 52 Rating, Deduct	-41.41	
			For Class 54 Rating, Add	28.23	
			For Class 55 Rating, Add	62.75	
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	707.03	196.77
			For Class 52 Rating, Deduct	-44.98	
			For Class 54 Rating, Add	30.67	
			For Class 55 Rating, Add	68.16	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	743.33	199.29
			For Class 52 Rating, Deduct	-48.55	
			For Class 54 Rating, Add	33.10	
			For Class 55 Rating, Add	73.58	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	779.62	201.82
			For Class 52 Rating, Deduct	-52.12	
			For Class 54 Rating, Add	35.54	
			For Class 55 Rating, Add	78.99	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	815.91	204.34
			For Class 52 Rating, Deduct	-55.69	
			For Class 54 Rating, Add	37.97	
			For Class 55 Rating, Add	84.40	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	852.19	206.86
			For Class 52 Rating, Deduct	-59.26	
			For Class 54 Rating, Add	40.41	
			For Class 55 Rating, Add	89.81	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	888.49	209.38
			For Class 52 Rating, Deduct	-62.84	
			For Class 54 Rating, Add	42.84	
			For Class 55 Rating, Add	95.23	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	924.78	211.91
			For Class 52 Rating, Deduct	-66.41	
			For Class 54 Rating, Add	45.28	
			For Class 55 Rating, Add	100.64	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	961.07	214.43
			For Class 52 Rating, Deduct	-69.98	
			For Class 54 Rating, Add	47.71	
			For Class 55 Rating, Add	106.05	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	997.36	216.95
			For Class 52 Rating, Deduct	-73.55	
			For Class 54 Rating, Add	50.15	
			For Class 55 Rating, Add	111.46	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,033.66	219.47
			For Class 52 Rating, Deduct	-77.12	
			For Class 54 Rating, Add	52.58	
			For Class 55 Rating, Add	116.88	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,069.94	221.99
			For Class 52 Rating, Deduct	-80.69	
			For Class 54 Rating, Add	55.02	
			For Class 55 Rating, Add	122.29	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,106.23	224.52
			For Class 52 Rating, Deduct	-84.27	
			For Class 54 Rating, Add	57.45	
			For Class 55 Rating, Add	127.70	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,142.52	227.04
			For Class 52 Rating, Deduct	-87.84	
			For Class 54 Rating, Add	59.89	
			For Class 55 Rating, Add	133.11	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,178.81	229.56
<i>For Class 52 Rating, Deduct</i>	-91.41	
<i>For Class 54 Rating, Add</i>	62.32	
<i>For Class 55 Rating, Add</i>	138.53	
40 05 19 00-0616 EA 6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,215.11	232.08
<i>For Class 52 Rating, Deduct</i>	-94.98	
<i>For Class 54 Rating, Add</i>	64.76	
<i>For Class 55 Rating, Add</i>	143.94	
40 05 19 00-0617 EA 6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,251.40	234.61
<i>For Class 52 Rating, Deduct</i>	-98.55	
<i>For Class 54 Rating, Add</i>	67.19	
<i>For Class 55 Rating, Add</i>	149.35	
40 05 19 00-0618 EA 6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,287.69	237.13
<i>For Class 52 Rating, Deduct</i>	-102.12	
<i>For Class 54 Rating, Add</i>	69.63	
<i>For Class 55 Rating, Add</i>	154.76	
40 05 19 00-0619 EA 6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,323.97	239.65
<i>For Class 52 Rating, Deduct</i>	-105.69	
<i>For Class 54 Rating, Add</i>	72.06	
<i>For Class 55 Rating, Add</i>	160.18	
40 05 19 00-0620 EA 6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,360.27	242.17
<i>For Class 52 Rating, Deduct</i>	-109.27	
<i>For Class 54 Rating, Add</i>	74.50	
<i>For Class 55 Rating, Add</i>	165.59	
40 05 19 00-0621 EA 6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,396.56	244.70
<i>For Class 52 Rating, Deduct</i>	-112.84	
<i>For Class 54 Rating, Add</i>	76.94	
<i>For Class 55 Rating, Add</i>	171.00	
40 05 19 00-0622 EA 6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,432.85	247.23
<i>For Class 52 Rating, Deduct</i>	-116.41	
<i>For Class 54 Rating, Add</i>	79.37	
<i>For Class 55 Rating, Add</i>	176.41	
40 05 19 00-0623 EA 6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,469.14	249.75
<i>For Class 52 Rating, Deduct</i>	-119.98	
<i>For Class 54 Rating, Add</i>	81.81	
<i>For Class 55 Rating, Add</i>	181.83	
40 05 19 00-0624 EA 6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,505.44	252.27
<i>For Class 52 Rating, Deduct</i>	-123.55	
<i>For Class 54 Rating, Add</i>	84.24	
<i>For Class 55 Rating, Add</i>	187.24	
40 05 19 00-0625 EA 6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,541.73	254.79
<i>For Class 52 Rating, Deduct</i>	-127.12	
<i>For Class 54 Rating, Add</i>	86.68	
<i>For Class 55 Rating, Add</i>	192.65	
40 05 19 00-0626 EA 6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,578.01	257.32
<i>For Class 52 Rating, Deduct</i>	-130.70	
<i>For Class 54 Rating, Add</i>	89.11	
<i>For Class 55 Rating, Add</i>	198.06	
40 05 19 00-0627 EA 6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,614.30	259.84
<i>For Class 52 Rating, Deduct</i>	-134.27	
<i>For Class 54 Rating, Add</i>	91.55	
<i>For Class 55 Rating, Add</i>	203.48	
40 05 19 00-0628 EA 6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,650.60	262.36
<i>For Class 52 Rating, Deduct</i>	-137.84	
<i>For Class 54 Rating, Add</i>	93.98	
<i>For Class 55 Rating, Add</i>	208.89	
40 05 19 00-0629 EA 6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,686.89	264.88
<i>For Class 52 Rating, Deduct</i>	-141.41	
<i>For Class 54 Rating, Add</i>	96.42	
<i>For Class 55 Rating, Add</i>	214.30	
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,723.18	267.41
<i>For Class 52 Rating, Deduct</i>	-144.98	
<i>For Class 54 Rating, Add</i>	98.85	
<i>For Class 55 Rating, Add</i>	219.71	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,759.47	269.93
<i>For Class 52 Rating, Deduct</i>	-148.55	
<i>For Class 54 Rating, Add</i>	101.29	
<i>For Class 55 Rating, Add</i>	225.13	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,795.76	272.45
			For Class 52 Rating, Deduct	-152.12	
			For Class 54 Rating, Add	103.72	
			For Class 55 Rating, Add	230.54	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,832.05	274.97
			For Class 52 Rating, Deduct	-155.70	
			For Class 54 Rating, Add	106.16	
			For Class 55 Rating, Add	235.95	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,868.34	277.50
			For Class 52 Rating, Deduct	-159.27	
			For Class 54 Rating, Add	108.59	
			For Class 55 Rating, Add	241.36	
<b>40 05 19 00-0635</b>			<b>8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	664.16	232.08
			For Class 52 Rating, Deduct	-34.38	
			For Class 54 Rating, Add	23.44	
			For Class 55 Rating, Add	52.10	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	712.62	234.61
			For Class 52 Rating, Deduct	-39.29	
			For Class 54 Rating, Add	26.79	
			For Class 55 Rating, Add	59.54	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	761.09	237.13
			For Class 52 Rating, Deduct	-44.20	
			For Class 54 Rating, Add	30.14	
			For Class 55 Rating, Add	66.98	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	809.55	239.65
			For Class 52 Rating, Deduct	-49.11	
			For Class 54 Rating, Add	33.48	
			For Class 55 Rating, Add	74.42	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	858.03	242.17
			For Class 52 Rating, Deduct	-54.02	
			For Class 54 Rating, Add	36.83	
			For Class 55 Rating, Add	81.86	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	906.49	244.70
			For Class 52 Rating, Deduct	-58.93	
			For Class 54 Rating, Add	40.18	
			For Class 55 Rating, Add	89.31	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	954.95	247.23
			For Class 52 Rating, Deduct	-63.84	
			For Class 54 Rating, Add	43.53	
			For Class 55 Rating, Add	96.75	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,003.42	249.75
			For Class 52 Rating, Deduct	-68.75	
			For Class 54 Rating, Add	46.88	
			For Class 55 Rating, Add	104.19	
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,051.89	252.27
			For Class 52 Rating, Deduct	-73.66	
			For Class 54 Rating, Add	50.22	
			For Class 55 Rating, Add	111.63	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,100.36	254.79
			For Class 52 Rating, Deduct	-78.57	
			For Class 54 Rating, Add	53.57	
			For Class 55 Rating, Add	119.08	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,148.82	257.32
			For Class 52 Rating, Deduct	-83.48	
			For Class 54 Rating, Add	56.92	
			For Class 55 Rating, Add	126.52	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,197.28	259.84
			For Class 52 Rating, Deduct	-88.39	
			For Class 54 Rating, Add	60.27	
			For Class 55 Rating, Add	133.96	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,245.76	262.36
			For Class 52 Rating, Deduct	-93.31	
			For Class 54 Rating, Add	63.62	
			For Class 55 Rating, Add	141.40	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	<b>40</b>
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0649 EA 8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,294.22	264.88
<i>For Class 52 Rating, Deduct</i>	-98.22	
<i>For Class 54 Rating, Add</i>	66.97	
<i>For Class 55 Rating, Add</i>	148.84	
40 05 19 00-0650 EA 8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,342.69	267.41
<i>For Class 52 Rating, Deduct</i>	-103.13	
<i>For Class 54 Rating, Add</i>	70.31	
<i>For Class 55 Rating, Add</i>	156.29	
40 05 19 00-0651 EA 8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,391.15	269.93
<i>For Class 52 Rating, Deduct</i>	-108.04	
<i>For Class 54 Rating, Add</i>	73.66	
<i>For Class 55 Rating, Add</i>	163.73	
40 05 19 00-0652 EA 8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,439.63	272.45
<i>For Class 52 Rating, Deduct</i>	-112.95	
<i>For Class 54 Rating, Add</i>	77.01	
<i>For Class 55 Rating, Add</i>	171.17	
40 05 19 00-0653 EA 8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,488.09	274.97
<i>For Class 52 Rating, Deduct</i>	-117.86	
<i>For Class 54 Rating, Add</i>	80.36	
<i>For Class 55 Rating, Add</i>	178.61	
40 05 19 00-0654 EA 8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,536.55	277.50
<i>For Class 52 Rating, Deduct</i>	-122.77	
<i>For Class 54 Rating, Add</i>	83.71	
<i>For Class 55 Rating, Add</i>	186.05	
40 05 19 00-0655 EA 8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,585.02	280.02
<i>For Class 52 Rating, Deduct</i>	-127.68	
<i>For Class 54 Rating, Add</i>	87.06	
<i>For Class 55 Rating, Add</i>	193.50	
40 05 19 00-0656 EA 8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,633.48	282.54
<i>For Class 52 Rating, Deduct</i>	-132.59	
<i>For Class 54 Rating, Add</i>	90.40	
<i>For Class 55 Rating, Add</i>	200.94	
40 05 19 00-0657 EA 8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,681.96	285.06
<i>For Class 52 Rating, Deduct</i>	-137.50	
<i>For Class 54 Rating, Add</i>	93.75	
<i>For Class 55 Rating, Add</i>	208.38	
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,730.42	287.59
<i>For Class 52 Rating, Deduct</i>	-142.41	
<i>For Class 54 Rating, Add</i>	97.10	
<i>For Class 55 Rating, Add</i>	215.82	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,778.88	290.11
<i>For Class 52 Rating, Deduct</i>	-147.33	
<i>For Class 54 Rating, Add</i>	100.45	
<i>For Class 55 Rating, Add</i>	223.26	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,827.35	292.63
<i>For Class 52 Rating, Deduct</i>	-152.24	
<i>For Class 54 Rating, Add</i>	103.80	
<i>For Class 55 Rating, Add</i>	230.71	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,875.82	295.15
<i>For Class 52 Rating, Deduct</i>	-157.15	
<i>For Class 54 Rating, Add</i>	107.15	
<i>For Class 55 Rating, Add</i>	238.15	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,924.29	297.67
<i>For Class 52 Rating, Deduct</i>	-162.06	
<i>For Class 54 Rating, Add</i>	110.49	
<i>For Class 55 Rating, Add</i>	245.59	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,972.75	300.20
<i>For Class 52 Rating, Deduct</i>	-166.97	
<i>For Class 54 Rating, Add</i>	113.84	
<i>For Class 55 Rating, Add</i>	253.03	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,021.22	302.72
<i>For Class 52 Rating, Deduct</i>	-171.88	
<i>For Class 54 Rating, Add</i>	117.19	
<i>For Class 55 Rating, Add</i>	260.48	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,069.69	305.24
<i>For Class 52 Rating, Deduct</i>	-176.79	
<i>For Class 54 Rating, Add</i>	120.54	
<i>For Class 55 Rating, Add</i>	267.92	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,118.15	307.76
			<i>For Class 52 Rating, Deduct</i>	-181.70	
			<i>For Class 54 Rating, Add</i>	123.89	
			<i>For Class 55 Rating, Add</i>	275.36	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,166.62	310.29
			<i>For Class 52 Rating, Deduct</i>	-186.61	
			<i>For Class 54 Rating, Add</i>	127.24	
			<i>For Class 55 Rating, Add</i>	282.80	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,215.08	312.81
			<i>For Class 52 Rating, Deduct</i>	-191.52	
			<i>For Class 54 Rating, Add</i>	130.58	
			<i>For Class 55 Rating, Add</i>	290.24	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,263.56	315.33
			<i>For Class 52 Rating, Deduct</i>	-196.43	
			<i>For Class 54 Rating, Add</i>	133.93	
			<i>For Class 55 Rating, Add</i>	297.69	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,312.02	317.86
			<i>For Class 52 Rating, Deduct</i>	-201.35	
			<i>For Class 54 Rating, Add</i>	137.28	
			<i>For Class 55 Rating, Add</i>	305.13	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,360.48	320.39
			<i>For Class 52 Rating, Deduct</i>	-206.26	
			<i>For Class 54 Rating, Add</i>	140.63	
			<i>For Class 55 Rating, Add</i>	312.57	
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,408.95	322.91
			<i>For Class 52 Rating, Deduct</i>	-211.17	
			<i>For Class 54 Rating, Add</i>	143.98	
			<i>For Class 55 Rating, Add</i>	320.01	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,457.41	325.43
			<i>For Class 52 Rating, Deduct</i>	-216.08	
			<i>For Class 54 Rating, Add</i>	147.33	
			<i>For Class 55 Rating, Add</i>	327.46	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,505.89	327.95
			<i>For Class 52 Rating, Deduct</i>	-220.99	
			<i>For Class 54 Rating, Add</i>	150.67	
			<i>For Class 55 Rating, Add</i>	334.90	
40 05 19 00-0675			<b>10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0654)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	827.86	282.54
			<i>For Class 52 Rating, Deduct</i>	-43.97	
			<i>For Class 54 Rating, Add</i>	29.98	
			<i>For Class 55 Rating, Add</i>	66.64	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	890.54	285.06
			<i>For Class 52 Rating, Deduct</i>	-50.45	
			<i>For Class 54 Rating, Add</i>	34.40	
			<i>For Class 55 Rating, Add</i>	76.45	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	953.21	287.59
			<i>For Class 52 Rating, Deduct</i>	-56.92	
			<i>For Class 54 Rating, Add</i>	38.81	
			<i>For Class 55 Rating, Add</i>	86.26	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,015.88	290.11
			<i>For Class 52 Rating, Deduct</i>	-63.40	
			<i>For Class 54 Rating, Add</i>	43.22	
			<i>For Class 55 Rating, Add</i>	96.07	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,078.54	292.63
			<i>For Class 52 Rating, Deduct</i>	-69.87	
			<i>For Class 54 Rating, Add</i>	47.64	
			<i>For Class 55 Rating, Add</i>	105.88	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,141.22	295.15
			<i>For Class 52 Rating, Deduct</i>	-76.34	
			<i>For Class 54 Rating, Add</i>	52.05	
			<i>For Class 55 Rating, Add</i>	115.69	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,203.89	297.67
			<i>For Class 52 Rating, Deduct</i>	-82.81	
			<i>For Class 54 Rating, Add</i>	56.46	
			<i>For Class 55 Rating, Add</i>	125.50	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683 EA 10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,266.56	300.20
<i>For Class 52 Rating, Deduct</i>	-89.29	
<i>For Class 54 Rating, Add</i>	60.88	
<i>For Class 55 Rating, Add</i>	135.31	
40 05 19 00-0684 EA 10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,329.23	302.72
<i>For Class 52 Rating, Deduct</i>	-95.76	
<i>For Class 54 Rating, Add</i>	65.29	
<i>For Class 55 Rating, Add</i>	145.12	
40 05 19 00-0685 EA 10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,391.91	305.24
<i>For Class 52 Rating, Deduct</i>	-102.24	
<i>For Class 54 Rating, Add</i>	69.71	
<i>For Class 55 Rating, Add</i>	154.93	
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,454.58	307.76
<i>For Class 52 Rating, Deduct</i>	-108.71	
<i>For Class 54 Rating, Add</i>	74.12	
<i>For Class 55 Rating, Add</i>	164.74	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,517.25	310.29
<i>For Class 52 Rating, Deduct</i>	-115.18	
<i>For Class 54 Rating, Add</i>	78.53	
<i>For Class 55 Rating, Add</i>	174.55	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,579.92	312.81
<i>For Class 52 Rating, Deduct</i>	-121.66	
<i>For Class 54 Rating, Add</i>	82.95	
<i>For Class 55 Rating, Add</i>	184.36	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,642.60	315.33
<i>For Class 52 Rating, Deduct</i>	-128.13	
<i>For Class 54 Rating, Add</i>	87.36	
<i>For Class 55 Rating, Add</i>	194.17	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,705.27	317.86
<i>For Class 52 Rating, Deduct</i>	-134.60	
<i>For Class 54 Rating, Add</i>	91.77	
<i>For Class 55 Rating, Add</i>	203.98	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,767.93	320.39
<i>For Class 52 Rating, Deduct</i>	-141.08	
<i>For Class 54 Rating, Add</i>	96.19	
<i>For Class 55 Rating, Add</i>	213.79	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,830.60	322.91
<i>For Class 52 Rating, Deduct</i>	-147.55	
<i>For Class 54 Rating, Add</i>	100.60	
<i>For Class 55 Rating, Add</i>	223.60	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,893.27	325.43
<i>For Class 52 Rating, Deduct</i>	-154.02	
<i>For Class 54 Rating, Add</i>	105.02	
<i>For Class 55 Rating, Add</i>	233.41	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,955.95	327.95
<i>For Class 52 Rating, Deduct</i>	-160.50	
<i>For Class 54 Rating, Add</i>	109.43	
<i>For Class 55 Rating, Add</i>	243.22	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,018.62	330.47
<i>For Class 52 Rating, Deduct</i>	-166.97	
<i>For Class 54 Rating, Add</i>	113.84	
<i>For Class 55 Rating, Add</i>	253.03	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,081.29	333.00
<i>For Class 52 Rating, Deduct</i>	-173.44	
<i>For Class 54 Rating, Add</i>	118.26	
<i>For Class 55 Rating, Add</i>	262.84	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,143.95	335.52
<i>For Class 52 Rating, Deduct</i>	-179.92	
<i>For Class 54 Rating, Add</i>	122.67	
<i>For Class 55 Rating, Add</i>	272.65	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,206.63	338.04
<i>For Class 52 Rating, Deduct</i>	-186.39	
<i>For Class 54 Rating, Add</i>	127.08	
<i>For Class 55 Rating, Add</i>	282.46	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,269.30	340.56
<i>For Class 52 Rating, Deduct</i>	-192.86	
<i>For Class 54 Rating, Add</i>	131.50	
<i>For Class 55 Rating, Add</i>	292.28	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,331.97	343.09
			<i>For Class 52 Rating, Deduct</i>	-199.34	
			<i>For Class 54 Rating, Add</i>	135.91	
			<i>For Class 55 Rating, Add</i>	302.09	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,394.64	345.61
			<i>For Class 52 Rating, Deduct</i>	-205.81	
			<i>For Class 54 Rating, Add</i>	140.33	
			<i>For Class 55 Rating, Add</i>	311.90	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,457.32	348.13
			<i>For Class 52 Rating, Deduct</i>	-212.28	
			<i>For Class 54 Rating, Add</i>	144.74	
			<i>For Class 55 Rating, Add</i>	321.71	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,519.98	350.65
			<i>For Class 52 Rating, Deduct</i>	-218.76	
			<i>For Class 54 Rating, Add</i>	149.15	
			<i>For Class 55 Rating, Add</i>	331.51	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,582.65	353.18
			<i>For Class 52 Rating, Deduct</i>	-225.23	
			<i>For Class 54 Rating, Add</i>	153.57	
			<i>For Class 55 Rating, Add</i>	341.32	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,645.32	355.70
			<i>For Class 52 Rating, Deduct</i>	-231.70	
			<i>For Class 54 Rating, Add</i>	157.98	
			<i>For Class 55 Rating, Add</i>	351.14	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,708.00	358.22
			<i>For Class 52 Rating, Deduct</i>	-238.18	
			<i>For Class 54 Rating, Add</i>	162.39	
			<i>For Class 55 Rating, Add</i>	360.95	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,770.67	360.74
			<i>For Class 52 Rating, Deduct</i>	-244.65	
			<i>For Class 54 Rating, Add</i>	166.81	
			<i>For Class 55 Rating, Add</i>	370.76	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,833.34	363.26
			<i>For Class 52 Rating, Deduct</i>	-251.12	
			<i>For Class 54 Rating, Add</i>	171.22	
			<i>For Class 55 Rating, Add</i>	380.57	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,896.01	365.79
			<i>For Class 52 Rating, Deduct</i>	-257.60	
			<i>For Class 54 Rating, Add</i>	175.63	
			<i>For Class 55 Rating, Add</i>	390.38	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,958.68	368.31
			<i>For Class 52 Rating, Deduct</i>	-264.07	
			<i>For Class 54 Rating, Add</i>	180.05	
			<i>For Class 55 Rating, Add</i>	400.19	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,021.36	370.83
			<i>For Class 52 Rating, Deduct</i>	-270.54	
			<i>For Class 54 Rating, Add</i>	184.46	
			<i>For Class 55 Rating, Add</i>	410.00	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,084.03	373.35
			<i>For Class 52 Rating, Deduct</i>	-277.02	
			<i>For Class 54 Rating, Add</i>	188.88	
			<i>For Class 55 Rating, Add</i>	419.81	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,146.70	375.88
			<i>For Class 52 Rating, Deduct</i>	-283.49	
			<i>For Class 54 Rating, Add</i>	193.29	
			<i>For Class 55 Rating, Add</i>	429.62	
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,209.36	378.40
			<i>For Class 52 Rating, Deduct</i>	-289.96	
			<i>For Class 54 Rating, Add</i>	197.70	
			<i>For Class 55 Rating, Add</i>	439.43	
40 05 19 00-0715			<b>12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,064.75	353.18
			<i>For Class 52 Rating, Deduct</i>	-58.26	
			<i>For Class 54 Rating, Add</i>	39.72	
			<i>For Class 55 Rating, Add</i>	88.29	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,142.64	355.70
<i>For Class 52 Rating, Deduct</i>	-66.41	
<i>For Class 54 Rating, Add</i>	45.28	
<i>For Class 55 Rating, Add</i>	100.64	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,220.54	358.22
<i>For Class 52 Rating, Deduct</i>	-74.56	
<i>For Class 54 Rating, Add</i>	50.83	
<i>For Class 55 Rating, Add</i>	112.99	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,298.43	360.74
<i>For Class 52 Rating, Deduct</i>	-82.70	
<i>For Class 54 Rating, Add</i>	56.39	
<i>For Class 55 Rating, Add</i>	125.33	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,376.32	363.26
<i>For Class 52 Rating, Deduct</i>	-90.85	
<i>For Class 54 Rating, Add</i>	61.94	
<i>For Class 55 Rating, Add</i>	137.68	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,454.21	365.79
<i>For Class 52 Rating, Deduct</i>	-99.00	
<i>For Class 54 Rating, Add</i>	67.50	
<i>For Class 55 Rating, Add</i>	150.03	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,532.09	368.31
<i>For Class 52 Rating, Deduct</i>	-107.15	
<i>For Class 54 Rating, Add</i>	73.05	
<i>For Class 55 Rating, Add</i>	162.37	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,609.99	370.83
<i>For Class 52 Rating, Deduct</i>	-115.29	
<i>For Class 54 Rating, Add</i>	78.61	
<i>For Class 55 Rating, Add</i>	174.72	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,687.88	373.35
<i>For Class 52 Rating, Deduct</i>	-123.44	
<i>For Class 54 Rating, Add</i>	84.16	
<i>For Class 55 Rating, Add</i>	187.07	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,765.77	375.88
<i>For Class 52 Rating, Deduct</i>	-131.59	
<i>For Class 54 Rating, Add</i>	89.72	
<i>For Class 55 Rating, Add</i>	199.42	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,843.66	378.40
<i>For Class 52 Rating, Deduct</i>	-139.74	
<i>For Class 54 Rating, Add</i>	95.27	
<i>For Class 55 Rating, Add</i>	211.76	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,921.56	380.92
<i>For Class 52 Rating, Deduct</i>	-147.88	
<i>For Class 54 Rating, Add</i>	100.83	
<i>For Class 55 Rating, Add</i>	224.11	
40 05 19 00-0728 EA 12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,999.45	383.44
<i>For Class 52 Rating, Deduct</i>	-156.03	
<i>For Class 54 Rating, Add</i>	106.39	
<i>For Class 55 Rating, Add</i>	236.46	
40 05 19 00-0729 EA 12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,077.34	385.97
<i>For Class 52 Rating, Deduct</i>	-164.18	
<i>For Class 54 Rating, Add</i>	111.94	
<i>For Class 55 Rating, Add</i>	248.81	
40 05 19 00-0730 EA 12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,155.22	388.50
<i>For Class 52 Rating, Deduct</i>	-172.33	
<i>For Class 54 Rating, Add</i>	117.50	
<i>For Class 55 Rating, Add</i>	261.15	
40 05 19 00-0731 EA 12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,233.12	391.02
<i>For Class 52 Rating, Deduct</i>	-180.47	
<i>For Class 54 Rating, Add</i>	123.05	
<i>For Class 55 Rating, Add</i>	273.50	
40 05 19 00-0732 EA 12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,311.01	393.54
<i>For Class 52 Rating, Deduct</i>	-188.62	
<i>For Class 54 Rating, Add</i>	128.61	
<i>For Class 55 Rating, Add</i>	285.85	
40 05 19 00-0733 EA 12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,388.90	396.07
<i>For Class 52 Rating, Deduct</i>	-196.77	
<i>For Class 54 Rating, Add</i>	134.16	
<i>For Class 55 Rating, Add</i>	298.19	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,466.79	398.59
			For Class 52 Rating, Deduct	-204.92	
			For Class 54 Rating, Add	139.72	
			For Class 55 Rating, Add	310.54	
40 05 19 00-0735	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,544.69	401.11
			For Class 52 Rating, Deduct	-213.06	
			For Class 54 Rating, Add	145.27	
			For Class 55 Rating, Add	322.89	
40 05 19 00-0736	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,622.58	403.63
			For Class 52 Rating, Deduct	-221.21	
			For Class 54 Rating, Add	150.83	
			For Class 55 Rating, Add	335.24	
40 05 19 00-0737	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,700.47	406.15
			For Class 52 Rating, Deduct	-229.36	
			For Class 54 Rating, Add	156.38	
			For Class 55 Rating, Add	347.58	
40 05 19 00-0738	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,778.35	408.68
			For Class 52 Rating, Deduct	-237.51	
			For Class 54 Rating, Add	161.94	
			For Class 55 Rating, Add	359.93	
40 05 19 00-0739	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,856.24	411.20
			For Class 52 Rating, Deduct	-245.65	
			For Class 54 Rating, Add	167.49	
			For Class 55 Rating, Add	372.28	
40 05 19 00-0740	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,934.14	413.72
			For Class 52 Rating, Deduct	-253.80	
			For Class 54 Rating, Add	173.05	
			For Class 55 Rating, Add	384.63	
40 05 19 00-0741	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,012.03	416.24
			For Class 52 Rating, Deduct	-261.95	
			For Class 54 Rating, Add	178.60	
			For Class 55 Rating, Add	396.97	
40 05 19 00-0742	EA		12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,089.92	418.77
			For Class 52 Rating, Deduct	-270.10	
			For Class 54 Rating, Add	184.16	
			For Class 55 Rating, Add	409.32	
40 05 19 00-0743	EA		12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,167.81	421.29
			For Class 52 Rating, Deduct	-278.25	
			For Class 54 Rating, Add	189.71	
			For Class 55 Rating, Add	421.67	
40 05 19 00-0744	EA		12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,245.71	423.81
			For Class 52 Rating, Deduct	-286.39	
			For Class 54 Rating, Add	195.27	
			For Class 55 Rating, Add	434.02	
40 05 19 00-0745	EA		12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,323.60	426.33
			For Class 52 Rating, Deduct	-294.54	
			For Class 54 Rating, Add	200.82	
			For Class 55 Rating, Add	446.36	
40 05 19 00-0746	EA		12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,401.48	428.86
			For Class 52 Rating, Deduct	-302.69	
			For Class 54 Rating, Add	206.38	
			For Class 55 Rating, Add	458.71	
40 05 19 00-0747	EA		12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,479.37	431.38
			For Class 52 Rating, Deduct	-310.83	
			For Class 54 Rating, Add	211.93	
			For Class 55 Rating, Add	471.06	
40 05 19 00-0748	EA		12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,557.27	433.90
			For Class 52 Rating, Deduct	-318.98	
			For Class 54 Rating, Add	217.49	
			For Class 55 Rating, Add	483.40	
40 05 19 00-0749	EA		12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,635.16	436.42
			For Class 52 Rating, Deduct	-327.13	
			For Class 54 Rating, Add	223.04	
			For Class 55 Rating, Add	495.75	
40 05 19 00-0750	EA		12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,713.05	438.94
			For Class 52 Rating, Deduct	-335.28	
			For Class 54 Rating, Add	228.60	
			For Class 55 Rating, Add	508.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,790.94	441.47
<i>For Class 52 Rating, Deduct</i>	-343.43	
<i>For Class 54 Rating, Add</i>	234.15	
<i>For Class 55 Rating, Add</i>	520.45	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,868.84	443.99
<i>For Class 52 Rating, Deduct</i>	-351.57	
<i>For Class 54 Rating, Add</i>	239.71	
<i>For Class 55 Rating, Add</i>	532.79	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,946.72	446.51
<i>For Class 52 Rating, Deduct</i>	-359.72	
<i>For Class 54 Rating, Add</i>	245.26	
<i>For Class 55 Rating, Add</i>	545.14	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,024.61	449.03
<i>For Class 52 Rating, Deduct</i>	-367.87	
<i>For Class 54 Rating, Add</i>	250.82	
<i>For Class 55 Rating, Add</i>	557.49	
<b>40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0756 EA 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,433.56	423.81
<i>For Class 52 Rating, Deduct</i>	-87.06	
<i>For Class 54 Rating, Add</i>	59.36	
<i>For Class 55 Rating, Add</i>	131.93	
40 05 19 00-0757 EA 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,527.68	426.33
<i>For Class 52 Rating, Deduct</i>	-96.99	
<i>For Class 54 Rating, Add</i>	66.13	
<i>For Class 55 Rating, Add</i>	146.98	
40 05 19 00-0758 EA 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,621.81	428.86
<i>For Class 52 Rating, Deduct</i>	-106.92	
<i>For Class 54 Rating, Add</i>	72.90	
<i>For Class 55 Rating, Add</i>	162.04	
40 05 19 00-0759 EA 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,715.93	431.38
<i>For Class 52 Rating, Deduct</i>	-116.86	
<i>For Class 54 Rating, Add</i>	79.67	
<i>For Class 55 Rating, Add</i>	177.09	
40 05 19 00-0760 EA 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,810.06	433.90
<i>For Class 52 Rating, Deduct</i>	-126.79	
<i>For Class 54 Rating, Add</i>	86.45	
<i>For Class 55 Rating, Add</i>	192.14	
40 05 19 00-0761 EA 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,904.18	436.42
<i>For Class 52 Rating, Deduct</i>	-136.72	
<i>For Class 54 Rating, Add</i>	93.22	
<i>For Class 55 Rating, Add</i>	207.20	
40 05 19 00-0762 EA 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,998.31	438.94
<i>For Class 52 Rating, Deduct</i>	-146.66	
<i>For Class 54 Rating, Add</i>	99.99	
<i>For Class 55 Rating, Add</i>	222.25	
40 05 19 00-0763 EA 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,092.43	441.47
<i>For Class 52 Rating, Deduct</i>	-156.59	
<i>For Class 54 Rating, Add</i>	106.77	
<i>For Class 55 Rating, Add</i>	237.30	
40 05 19 00-0764 EA 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,186.56	443.99
<i>For Class 52 Rating, Deduct</i>	-166.52	
<i>For Class 54 Rating, Add</i>	113.54	
<i>For Class 55 Rating, Add</i>	252.36	
40 05 19 00-0765 EA 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,280.69	446.51
<i>For Class 52 Rating, Deduct</i>	-176.46	
<i>For Class 54 Rating, Add</i>	120.31	
<i>For Class 55 Rating, Add</i>	267.41	
40 05 19 00-0766 EA 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,374.81	449.03
<i>For Class 52 Rating, Deduct</i>	-186.39	
<i>For Class 54 Rating, Add</i>	127.08	
<i>For Class 55 Rating, Add</i>	282.46	
40 05 19 00-0767 EA 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,468.93	451.56
<i>For Class 52 Rating, Deduct</i>	-196.32	
<i>For Class 54 Rating, Add</i>	133.86	
<i>For Class 55 Rating, Add</i>	297.52	



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,563.05	454.08
			For Class 52 Rating, Deduct	-206.26	
			For Class 54 Rating, Add	140.63	
			For Class 55 Rating, Add	312.57	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,657.19	456.60
			For Class 52 Rating, Deduct	-216.19	
			For Class 54 Rating, Add	147.40	
			For Class 55 Rating, Add	327.63	
40 05 19 00-0770	EA		14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,751.31	459.13
			For Class 52 Rating, Deduct	-226.12	
			For Class 54 Rating, Add	154.17	
			For Class 55 Rating, Add	342.68	
40 05 19 00-0771	EA		14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,845.43	461.66
			For Class 52 Rating, Deduct	-236.06	
			For Class 54 Rating, Add	160.95	
			For Class 55 Rating, Add	357.73	
40 05 19 00-0772	EA		14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,939.56	464.18
			For Class 52 Rating, Deduct	-245.99	
			For Class 54 Rating, Add	167.72	
			For Class 55 Rating, Add	372.79	
40 05 19 00-0773	EA		14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,033.69	466.70
			For Class 52 Rating, Deduct	-255.92	
			For Class 54 Rating, Add	174.49	
			For Class 55 Rating, Add	387.84	
40 05 19 00-0774	EA		14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,127.81	469.22
			For Class 52 Rating, Deduct	-265.86	
			For Class 54 Rating, Add	181.27	
			For Class 55 Rating, Add	402.89	
40 05 19 00-0775	EA		14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,221.94	471.74
			For Class 52 Rating, Deduct	-275.79	
			For Class 54 Rating, Add	188.04	
			For Class 55 Rating, Add	417.95	
40 05 19 00-0776	EA		14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,316.06	474.27
			For Class 52 Rating, Deduct	-285.72	
			For Class 54 Rating, Add	194.81	
			For Class 55 Rating, Add	433.00	
40 05 19 00-0777	EA		14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,410.19	476.79
			For Class 52 Rating, Deduct	-295.66	
			For Class 54 Rating, Add	201.58	
			For Class 55 Rating, Add	448.05	
40 05 19 00-0778	EA		14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,504.31	479.31
			For Class 52 Rating, Deduct	-305.59	
			For Class 54 Rating, Add	208.36	
			For Class 55 Rating, Add	463.11	
40 05 19 00-0779	EA		14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,598.44	481.83
			For Class 52 Rating, Deduct	-315.52	
			For Class 54 Rating, Add	215.13	
			For Class 55 Rating, Add	478.16	
40 05 19 00-0780	EA		14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,692.56	484.36
			For Class 52 Rating, Deduct	-325.46	
			For Class 54 Rating, Add	221.90	
			For Class 55 Rating, Add	493.21	
40 05 19 00-0781	EA		14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,786.69	486.88
			For Class 52 Rating, Deduct	-335.39	
			For Class 54 Rating, Add	228.67	
			For Class 55 Rating, Add	508.27	
40 05 19 00-0782	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,880.82	489.40
			For Class 52 Rating, Deduct	-345.32	
			For Class 54 Rating, Add	235.45	
			For Class 55 Rating, Add	523.32	
40 05 19 00-0783	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,974.94	491.92
			For Class 52 Rating, Deduct	-355.26	
			For Class 54 Rating, Add	242.22	
			For Class 55 Rating, Add	538.37	
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,069.06	494.45
			For Class 52 Rating, Deduct	-365.19	
			For Class 54 Rating, Add	248.99	
			For Class 55 Rating, Add	553.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785 EA 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,163.19	496.97
For Class 52 Rating, Deduct	-375.12	
For Class 54 Rating, Add	255.77	
For Class 55 Rating, Add	568.48	
40 05 19 00-0786 EA 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,257.32	499.49
For Class 52 Rating, Deduct	-385.06	
For Class 54 Rating, Add	262.54	
For Class 55 Rating, Add	583.54	
40 05 19 00-0787 EA 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,351.44	502.01
For Class 52 Rating, Deduct	-394.99	
For Class 54 Rating, Add	269.31	
For Class 55 Rating, Add	598.59	
40 05 19 00-0788 EA 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,445.56	504.54
For Class 52 Rating, Deduct	-404.92	
For Class 54 Rating, Add	276.08	
For Class 55 Rating, Add	613.64	
40 05 19 00-0789 EA 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,539.69	507.06
For Class 52 Rating, Deduct	-414.86	
For Class 54 Rating, Add	282.86	
For Class 55 Rating, Add	628.70	
40 05 19 00-0790 EA 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,633.82	509.58
For Class 52 Rating, Deduct	-424.79	
For Class 54 Rating, Add	289.63	
For Class 55 Rating, Add	643.75	
40 05 19 00-0791 EA 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,727.94	512.10
For Class 52 Rating, Deduct	-434.72	
For Class 54 Rating, Add	296.40	
For Class 55 Rating, Add	658.80	
40 05 19 00-0792 EA 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,822.07	514.62
For Class 52 Rating, Deduct	-444.66	
For Class 54 Rating, Add	303.17	
For Class 55 Rating, Add	673.86	
40 05 19 00-0793 EA 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,916.19	517.15
For Class 52 Rating, Deduct	-454.59	
For Class 54 Rating, Add	309.95	
For Class 55 Rating, Add	688.91	
<b>40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0795 EA 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,670.38	484.36
For Class 52 Rating, Deduct	-103.02	
For Class 54 Rating, Add	70.24	
For Class 55 Rating, Add	156.12	
40 05 19 00-0796 EA 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,779.74	486.88
For Class 52 Rating, Deduct	-114.62	
For Class 54 Rating, Add	78.15	
For Class 55 Rating, Add	173.71	
40 05 19 00-0797 EA 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,889.08	489.40
For Class 52 Rating, Deduct	-126.23	
For Class 54 Rating, Add	86.07	
For Class 55 Rating, Add	191.30	
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,998.42	491.92
For Class 52 Rating, Deduct	-137.84	
For Class 54 Rating, Add	93.98	
For Class 55 Rating, Add	208.89	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,107.76	494.45
For Class 52 Rating, Deduct	-149.45	
For Class 54 Rating, Add	101.90	
For Class 55 Rating, Add	226.48	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,217.12	496.97
For Class 52 Rating, Deduct	-161.05	
For Class 54 Rating, Add	109.81	
For Class 55 Rating, Add	244.07	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,326.46	499.49
For Class 52 Rating, Deduct	-172.66	
For Class 54 Rating, Add	117.72	
For Class 55 Rating, Add	261.66	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,435.80	502.01
			For Class 52 Rating, Deduct	-184.27	
			For Class 54 Rating, Add	125.64	
			For Class 55 Rating, Add	279.25	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,545.14	504.54
			For Class 52 Rating, Deduct	-195.88	
			For Class 54 Rating, Add	133.55	
			For Class 55 Rating, Add	296.84	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,644.34	507.06
			For Class 52 Rating, Deduct	-206.37	
			For Class 54 Rating, Add	140.71	
			For Class 55 Rating, Add	312.74	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,763.84	509.58
			For Class 52 Rating, Deduct	-219.09	
			For Class 54 Rating, Add	149.38	
			For Class 55 Rating, Add	332.02	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,873.18	512.10
			For Class 52 Rating, Deduct	-230.70	
			For Class 54 Rating, Add	157.29	
			For Class 55 Rating, Add	349.61	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,982.52	514.62
			For Class 52 Rating, Deduct	-242.31	
			For Class 54 Rating, Add	165.21	
			For Class 55 Rating, Add	367.20	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,091.87	517.15
			For Class 52 Rating, Deduct	-253.91	
			For Class 54 Rating, Add	173.12	
			For Class 55 Rating, Add	384.80	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,201.22	519.67
			For Class 52 Rating, Deduct	-265.52	
			For Class 54 Rating, Add	181.04	
			For Class 55 Rating, Add	402.39	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,310.56	522.19
			For Class 52 Rating, Deduct	-277.13	
			For Class 54 Rating, Add	188.95	
			For Class 55 Rating, Add	419.98	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,419.90	524.71
			For Class 52 Rating, Deduct	-288.74	
			For Class 54 Rating, Add	196.87	
			For Class 55 Rating, Add	437.57	
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,529.25	527.24
			For Class 52 Rating, Deduct	-300.34	
			For Class 54 Rating, Add	204.78	
			For Class 55 Rating, Add	455.16	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,638.60	529.77
			For Class 52 Rating, Deduct	-311.95	
			For Class 54 Rating, Add	212.69	
			For Class 55 Rating, Add	472.75	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,747.94	532.29
			For Class 52 Rating, Deduct	-323.56	
			For Class 54 Rating, Add	220.61	
			For Class 55 Rating, Add	490.34	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,857.28	534.81
			For Class 52 Rating, Deduct	-335.17	
			For Class 54 Rating, Add	228.52	
			For Class 55 Rating, Add	507.93	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,966.63	537.34
			For Class 52 Rating, Deduct	-346.77	
			For Class 54 Rating, Add	236.44	
			For Class 55 Rating, Add	525.52	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,075.98	539.86
			For Class 52 Rating, Deduct	-358.38	
			For Class 54 Rating, Add	244.35	
			For Class 55 Rating, Add	543.11	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,185.32	542.38
			For Class 52 Rating, Deduct	-369.99	
			For Class 54 Rating, Add	252.26	
			For Class 55 Rating, Add	560.70	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0819 EA 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,294.66	544.90
For Class 52 Rating, Deduct	-381.60	
For Class 54 Rating, Add	260.18	
For Class 55 Rating, Add	578.29	
40 05 19 00-0820 EA 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,404.01	547.42
For Class 52 Rating, Deduct	-393.20	
For Class 54 Rating, Add	268.09	
For Class 55 Rating, Add	595.88	
40 05 19 00-0821 EA 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,513.35	549.95
For Class 52 Rating, Deduct	-404.81	
For Class 54 Rating, Add	276.01	
For Class 55 Rating, Add	613.47	
40 05 19 00-0822 EA 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,622.70	552.47
For Class 52 Rating, Deduct	-416.42	
For Class 54 Rating, Add	283.92	
For Class 55 Rating, Add	631.06	
40 05 19 00-0823 EA 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,732.04	554.99
For Class 52 Rating, Deduct	-428.03	
For Class 54 Rating, Add	291.84	
For Class 55 Rating, Add	648.65	
40 05 19 00-0824 EA 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,841.39	557.51
For Class 52 Rating, Deduct	-439.63	
For Class 54 Rating, Add	299.75	
For Class 55 Rating, Add	666.24	
40 05 19 00-0825 EA 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,950.73	560.04
For Class 52 Rating, Deduct	-451.24	
For Class 54 Rating, Add	307.66	
For Class 55 Rating, Add	683.84	
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,060.07	562.56
For Class 52 Rating, Deduct	-462.85	
For Class 54 Rating, Add	315.58	
For Class 55 Rating, Add	701.43	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,169.41	565.08
For Class 52 Rating, Deduct	-474.46	
For Class 54 Rating, Add	323.49	
For Class 55 Rating, Add	719.02	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,278.76	567.60
For Class 52 Rating, Deduct	-486.06	
For Class 54 Rating, Add	331.41	
For Class 55 Rating, Add	736.61	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,388.10	570.13
For Class 52 Rating, Deduct	-497.67	
For Class 54 Rating, Add	339.32	
For Class 55 Rating, Add	754.20	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,497.45	572.65
For Class 52 Rating, Deduct	-509.28	
For Class 54 Rating, Add	347.24	
For Class 55 Rating, Add	771.79	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,606.79	575.17
For Class 52 Rating, Deduct	-520.89	
For Class 54 Rating, Add	355.15	
For Class 55 Rating, Add	789.38	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,716.14	577.69
For Class 52 Rating, Deduct	-532.49	
For Class 54 Rating, Add	363.06	
For Class 55 Rating, Add	806.97	
<b>40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)</b>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,938.16	545.92
For Class 52 Rating, Deduct	-122.21	
For Class 54 Rating, Add	83.33	
For Class 55 Rating, Add	185.21	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,063.75	548.44
For Class 52 Rating, Deduct	-135.61	
For Class 54 Rating, Add	92.46	
For Class 55 Rating, Add	205.51	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,189.32	550.96
			For Class 52 Rating, Deduct	-149.00	
			For Class 54 Rating, Add	101.59	
			For Class 55 Rating, Add	225.80	
40 05 19 00-0837	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,314.90	553.48
			For Class 52 Rating, Deduct	-162.39	
			For Class 54 Rating, Add	110.72	
			For Class 55 Rating, Add	246.10	
40 05 19 00-0838	EA		18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,440.48	556.01
			For Class 52 Rating, Deduct	-175.79	
			For Class 54 Rating, Add	119.85	
			For Class 55 Rating, Add	266.40	
40 05 19 00-0839	EA		18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,566.05	558.53
			For Class 52 Rating, Deduct	-189.18	
			For Class 54 Rating, Add	128.99	
			For Class 55 Rating, Add	286.69	
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,691.64	561.05
			For Class 52 Rating, Deduct	-202.57	
			For Class 54 Rating, Add	138.12	
			For Class 55 Rating, Add	306.99	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,817.22	563.57
			For Class 52 Rating, Deduct	-215.97	
			For Class 54 Rating, Add	147.25	
			For Class 55 Rating, Add	327.29	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,942.80	566.10
			For Class 52 Rating, Deduct	-229.36	
			For Class 54 Rating, Add	156.38	
			For Class 55 Rating, Add	347.58	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,068.37	568.62
			For Class 52 Rating, Deduct	-242.75	
			For Class 54 Rating, Add	165.51	
			For Class 55 Rating, Add	367.88	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,193.96	571.14
			For Class 52 Rating, Deduct	-256.15	
			For Class 54 Rating, Add	174.65	
			For Class 55 Rating, Add	388.18	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,319.54	573.66
			For Class 52 Rating, Deduct	-269.54	
			For Class 54 Rating, Add	183.78	
			For Class 55 Rating, Add	408.48	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,445.11	576.18
			For Class 52 Rating, Deduct	-282.93	
			For Class 54 Rating, Add	192.91	
			For Class 55 Rating, Add	428.77	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,570.69	578.71
			For Class 52 Rating, Deduct	-296.33	
			For Class 54 Rating, Add	202.04	
			For Class 55 Rating, Add	449.07	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,696.28	581.23
			For Class 52 Rating, Deduct	-309.72	
			For Class 54 Rating, Add	211.17	
			For Class 55 Rating, Add	469.37	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,821.85	583.75
			For Class 52 Rating, Deduct	-323.11	
			For Class 54 Rating, Add	220.30	
			For Class 55 Rating, Add	489.66	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,947.43	586.27
			For Class 52 Rating, Deduct	-336.51	
			For Class 54 Rating, Add	229.44	
			For Class 55 Rating, Add	509.96	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,073.01	588.80
			For Class 52 Rating, Deduct	-349.90	
			For Class 54 Rating, Add	238.57	
			For Class 55 Rating, Add	530.26	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,198.59	591.32
			For Class 52 Rating, Deduct	-363.29	
			For Class 54 Rating, Add	247.70	
			For Class 55 Rating, Add	550.55	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0853 EA 18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,324.17	593.84
<i>For Class 52 Rating, Deduct</i>	-376.69	
<i>For Class 54 Rating, Add</i>	256.83	
<i>For Class 55 Rating, Add</i>	570.85	
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,449.75	596.36
<i>For Class 52 Rating, Deduct</i>	-390.08	
<i>For Class 54 Rating, Add</i>	265.96	
<i>For Class 55 Rating, Add</i>	591.15	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,575.32	598.89
<i>For Class 52 Rating, Deduct</i>	-403.47	
<i>For Class 54 Rating, Add</i>	275.09	
<i>For Class 55 Rating, Add</i>	611.44	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,700.90	601.41
<i>For Class 52 Rating, Deduct</i>	-416.86	
<i>For Class 54 Rating, Add</i>	284.23	
<i>For Class 55 Rating, Add</i>	631.74	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,826.49	603.93
<i>For Class 52 Rating, Deduct</i>	-430.26	
<i>For Class 54 Rating, Add</i>	293.36	
<i>For Class 55 Rating, Add</i>	652.04	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,952.06	606.45
<i>For Class 52 Rating, Deduct</i>	-443.65	
<i>For Class 54 Rating, Add</i>	302.49	
<i>For Class 55 Rating, Add</i>	672.33	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,077.64	608.98
<i>For Class 52 Rating, Deduct</i>	-457.04	
<i>For Class 54 Rating, Add</i>	311.62	
<i>For Class 55 Rating, Add</i>	692.63	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,203.22	611.51
<i>For Class 52 Rating, Deduct</i>	-470.44	
<i>For Class 54 Rating, Add</i>	320.75	
<i>For Class 55 Rating, Add</i>	712.93	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,328.80	614.03
<i>For Class 52 Rating, Deduct</i>	-483.83	
<i>For Class 54 Rating, Add</i>	329.88	
<i>For Class 55 Rating, Add</i>	733.22	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,454.38	616.55
<i>For Class 52 Rating, Deduct</i>	-497.22	
<i>For Class 54 Rating, Add</i>	339.02	
<i>For Class 55 Rating, Add</i>	753.52	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,579.96	619.07
<i>For Class 52 Rating, Deduct</i>	-510.62	
<i>For Class 54 Rating, Add</i>	348.15	
<i>For Class 55 Rating, Add</i>	773.82	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,705.53	621.60
<i>For Class 52 Rating, Deduct</i>	-524.01	
<i>For Class 54 Rating, Add</i>	357.28	
<i>For Class 55 Rating, Add</i>	794.11	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,831.12	624.12
<i>For Class 52 Rating, Deduct</i>	-537.40	
<i>For Class 54 Rating, Add</i>	366.41	
<i>For Class 55 Rating, Add</i>	814.41	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,956.70	626.64
<i>For Class 52 Rating, Deduct</i>	-550.80	
<i>For Class 54 Rating, Add</i>	375.54	
<i>For Class 55 Rating, Add</i>	834.71	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,082.28	629.16
<i>For Class 52 Rating, Deduct</i>	-564.19	
<i>For Class 54 Rating, Add</i>	384.68	
<i>For Class 55 Rating, Add</i>	855.01	
40 05 19 00-0868 EA 18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,207.85	631.69
<i>For Class 52 Rating, Deduct</i>	-577.58	
<i>For Class 54 Rating, Add</i>	393.81	
<i>For Class 55 Rating, Add</i>	875.30	
40 05 19 00-0869 EA 18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,333.44	634.21
<i>For Class 52 Rating, Deduct</i>	-590.98	
<i>For Class 54 Rating, Add</i>	402.94	
<i>For Class 55 Rating, Add</i>	895.60	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,459.02	636.73
			For Class 52 Rating, Deduct	-604.37	
			For Class 54 Rating, Add	412.07	
			For Class 55 Rating, Add	915.90	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,584.59	639.25
			For Class 52 Rating, Deduct	-617.76	
			For Class 54 Rating, Add	421.20	
			For Class 55 Rating, Add	936.19	
<b>40 05 19 00-0872</b>			<b>20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0854)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,241.81	623.10
			For Class 52 Rating, Deduct	-142.75	
			For Class 54 Rating, Add	97.33	
			For Class 55 Rating, Add	216.33	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,385.66	625.63
			For Class 52 Rating, Deduct	-158.15	
			For Class 54 Rating, Add	107.83	
			For Class 55 Rating, Add	239.67	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,529.51	628.15
			For Class 52 Rating, Deduct	-173.55	
			For Class 54 Rating, Add	118.33	
			For Class 55 Rating, Add	263.01	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,673.35	630.67
			For Class 52 Rating, Deduct	-188.96	
			For Class 54 Rating, Add	128.83	
			For Class 55 Rating, Add	286.36	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,817.19	633.19
			For Class 52 Rating, Deduct	-204.36	
			For Class 54 Rating, Add	139.34	
			For Class 55 Rating, Add	309.70	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,961.03	635.72
			For Class 52 Rating, Deduct	-219.76	
			For Class 54 Rating, Add	149.84	
			For Class 55 Rating, Add	333.04	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,104.88	638.24
			For Class 52 Rating, Deduct	-235.16	
			For Class 54 Rating, Add	160.34	
			For Class 55 Rating, Add	356.38	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,248.72	640.76
			For Class 52 Rating, Deduct	-250.57	
			For Class 54 Rating, Add	170.84	
			For Class 55 Rating, Add	379.72	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,392.56	643.28
			For Class 52 Rating, Deduct	-265.97	
			For Class 54 Rating, Add	181.34	
			For Class 55 Rating, Add	403.06	
40 05 19 00-0882	EA		20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,536.40	645.81
			For Class 52 Rating, Deduct	-281.37	
			For Class 54 Rating, Add	191.84	
			For Class 55 Rating, Add	426.40	
40 05 19 00-0883	EA		20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,680.25	648.33
			For Class 52 Rating, Deduct	-296.77	
			For Class 54 Rating, Add	202.34	
			For Class 55 Rating, Add	449.74	
40 05 19 00-0884	EA		20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,824.09	650.85
			For Class 52 Rating, Deduct	-312.17	
			For Class 54 Rating, Add	212.85	
			For Class 55 Rating, Add	473.09	
40 05 19 00-0885	EA		20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,967.93	653.37
			For Class 52 Rating, Deduct	-327.58	
			For Class 54 Rating, Add	223.35	
			For Class 55 Rating, Add	496.43	
40 05 19 00-0886	EA		20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,111.77	655.89
			For Class 52 Rating, Deduct	-342.98	
			For Class 54 Rating, Add	233.85	
			For Class 55 Rating, Add	519.77	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,255.62	658.42
<i>For Class 52 Rating, Deduct</i>	-358.38	
<i>For Class 54 Rating, Add</i>	244.35	
<i>For Class 55 Rating, Add</i>	543.11	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,399.46	660.94
<i>For Class 52 Rating, Deduct</i>	-373.78	
<i>For Class 54 Rating, Add</i>	254.85	
<i>For Class 55 Rating, Add</i>	566.45	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,543.30	663.46
<i>For Class 52 Rating, Deduct</i>	-389.19	
<i>For Class 54 Rating, Add</i>	265.35	
<i>For Class 55 Rating, Add</i>	589.79	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,687.14	665.98
<i>For Class 52 Rating, Deduct</i>	-404.59	
<i>For Class 54 Rating, Add</i>	275.86	
<i>For Class 55 Rating, Add</i>	613.13	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,830.99	668.51
<i>For Class 52 Rating, Deduct</i>	-419.99	
<i>For Class 54 Rating, Add</i>	286.36	
<i>For Class 55 Rating, Add</i>	636.48	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,974.83	671.04
<i>For Class 52 Rating, Deduct</i>	-435.39	
<i>For Class 54 Rating, Add</i>	296.86	
<i>For Class 55 Rating, Add</i>	659.82	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,118.67	673.56
<i>For Class 52 Rating, Deduct</i>	-450.79	
<i>For Class 54 Rating, Add</i>	307.36	
<i>For Class 55 Rating, Add</i>	683.16	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,262.51	676.08
<i>For Class 52 Rating, Deduct</i>	-466.20	
<i>For Class 54 Rating, Add</i>	317.86	
<i>For Class 55 Rating, Add</i>	706.50	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,406.36	678.61
<i>For Class 52 Rating, Deduct</i>	-481.60	
<i>For Class 54 Rating, Add</i>	328.36	
<i>For Class 55 Rating, Add</i>	729.84	
40 05 19 00-0896 EA 20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,550.20	681.13
<i>For Class 52 Rating, Deduct</i>	-497.00	
<i>For Class 54 Rating, Add</i>	338.86	
<i>For Class 55 Rating, Add</i>	753.18	
40 05 19 00-0897 EA 20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,694.04	683.65
<i>For Class 52 Rating, Deduct</i>	-512.40	
<i>For Class 54 Rating, Add</i>	349.37	
<i>For Class 55 Rating, Add</i>	776.52	
40 05 19 00-0898 EA 20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,837.88	686.17
<i>For Class 52 Rating, Deduct</i>	-527.81	
<i>For Class 54 Rating, Add</i>	359.87	
<i>For Class 55 Rating, Add</i>	799.86	
40 05 19 00-0899 EA 20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,981.72	688.69
<i>For Class 52 Rating, Deduct</i>	-543.21	
<i>For Class 54 Rating, Add</i>	370.37	
<i>For Class 55 Rating, Add</i>	823.21	
40 05 19 00-0900 EA 20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,125.57	691.22
<i>For Class 52 Rating, Deduct</i>	-558.61	
<i>For Class 54 Rating, Add</i>	380.87	
<i>For Class 55 Rating, Add</i>	846.55	
40 05 19 00-0901 EA 20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,269.41	693.74
<i>For Class 52 Rating, Deduct</i>	-574.01	
<i>For Class 54 Rating, Add</i>	391.37	
<i>For Class 55 Rating, Add</i>	869.89	
40 05 19 00-0902 EA 20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,413.25	696.26
<i>For Class 52 Rating, Deduct</i>	-589.41	
<i>For Class 54 Rating, Add</i>	401.87	
<i>For Class 55 Rating, Add</i>	893.23	
40 05 19 00-0903 EA 20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,557.09	698.78
<i>For Class 52 Rating, Deduct</i>	-604.82	
<i>For Class 54 Rating, Add</i>	412.37	
<i>For Class 55 Rating, Add</i>	916.57	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,700.94	701.31
			For Class 52 Rating, Deduct	-620.22	
			For Class 54 Rating, Add	422.88	
			For Class 55 Rating, Add	939.91	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,844.78	703.83
			For Class 52 Rating, Deduct	-635.62	
			For Class 54 Rating, Add	433.38	
			For Class 55 Rating, Add	963.25	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,988.63	706.35
			For Class 52 Rating, Deduct	-651.02	
			For Class 54 Rating, Add	443.88	
			For Class 55 Rating, Add	986.60	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,132.47	708.87
			For Class 52 Rating, Deduct	-666.43	
			For Class 54 Rating, Add	454.38	
			For Class 55 Rating, Add	1,009.94	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,276.32	711.40
			For Class 52 Rating, Deduct	-681.83	
			For Class 54 Rating, Add	464.88	
			For Class 55 Rating, Add	1,033.28	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,420.16	713.92
			For Class 52 Rating, Deduct	-697.23	
			For Class 54 Rating, Add	475.38	
			For Class 55 Rating, Add	1,056.62	
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,564.00	716.44
			For Class 52 Rating, Deduct	-712.63	
			For Class 54 Rating, Add	485.89	
			For Class 55 Rating, Add	1,079.96	
<b>40 05 19 00-0911</b>			<b>24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)</b>		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,755.76	736.62
			For Class 52 Rating, Deduct	-180.36	
			For Class 54 Rating, Add	122.97	
			For Class 55 Rating, Add	273.33	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,933.08	739.14
			For Class 52 Rating, Deduct	-199.45	
			For Class 54 Rating, Add	135.99	
			For Class 55 Rating, Add	302.25	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,110.41	741.67
			For Class 52 Rating, Deduct	-218.53	
			For Class 54 Rating, Add	149.00	
			For Class 55 Rating, Add	331.18	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,287.74	744.20
			For Class 52 Rating, Deduct	-237.62	
			For Class 54 Rating, Add	162.01	
			For Class 55 Rating, Add	360.10	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,465.06	746.72
			For Class 52 Rating, Deduct	-256.70	
			For Class 54 Rating, Add	175.03	
			For Class 55 Rating, Add	389.02	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,642.39	749.24
			For Class 52 Rating, Deduct	-275.79	
			For Class 54 Rating, Add	188.04	
			For Class 55 Rating, Add	417.95	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,819.71	751.76
			For Class 52 Rating, Deduct	-294.87	
			For Class 54 Rating, Add	201.05	
			For Class 55 Rating, Add	446.87	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,997.04	754.29
			For Class 52 Rating, Deduct	-313.96	
			For Class 54 Rating, Add	214.06	
			For Class 55 Rating, Add	475.79	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,174.37	756.81
			For Class 52 Rating, Deduct	-333.05	
			For Class 54 Rating, Add	227.08	
			For Class 55 Rating, Add	504.72	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,351.69	759.33
			For Class 52 Rating, Deduct	-352.13	
			For Class 54 Rating, Add	240.09	
			For Class 55 Rating, Add	533.64	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,529.01	761.85
			For Class 52 Rating, Deduct	-371.22	
			For Class 54 Rating, Add	253.10	
			For Class 55 Rating, Add	562.56	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,706.35	764.37
			For Class 52 Rating, Deduct	-390.30	
			For Class 54 Rating, Add	266.12	
			For Class 55 Rating, Add	591.48	
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,883.67	766.90
			For Class 52 Rating, Deduct	-409.39	
			For Class 54 Rating, Add	279.13	
			For Class 55 Rating, Add	620.41	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,060.99	769.42
			For Class 52 Rating, Deduct	-428.47	
			For Class 54 Rating, Add	292.14	
			For Class 55 Rating, Add	649.33	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,238.32	771.94
			For Class 52 Rating, Deduct	-447.56	
			For Class 54 Rating, Add	305.15	
			For Class 55 Rating, Add	678.25	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,415.64	774.46
			For Class 52 Rating, Deduct	-466.64	
			For Class 54 Rating, Add	318.17	
			For Class 55 Rating, Add	707.18	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,592.97	776.99
			For Class 52 Rating, Deduct	-485.73	
			For Class 54 Rating, Add	331.18	
			For Class 55 Rating, Add	736.10	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,770.30	779.51
			For Class 52 Rating, Deduct	-504.81	
			For Class 54 Rating, Add	344.19	
			For Class 55 Rating, Add	765.02	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,947.62	782.03
			For Class 52 Rating, Deduct	-523.90	
			For Class 54 Rating, Add	357.20	
			For Class 55 Rating, Add	793.95	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,124.93	784.55
			For Class 52 Rating, Deduct	-542.98	
			For Class 54 Rating, Add	370.22	
			For Class 55 Rating, Add	822.87	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,302.27	787.08
			For Class 52 Rating, Deduct	-562.07	
			For Class 54 Rating, Add	383.23	
			For Class 55 Rating, Add	851.79	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,479.59	789.60
			For Class 52 Rating, Deduct	-581.16	
			For Class 54 Rating, Add	396.24	
			For Class 55 Rating, Add	880.71	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,656.91	792.12
			For Class 52 Rating, Deduct	-600.24	
			For Class 54 Rating, Add	409.25	
			For Class 55 Rating, Add	909.64	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,834.24	794.64
			For Class 52 Rating, Deduct	-619.33	
			For Class 54 Rating, Add	422.27	
			For Class 55 Rating, Add	938.56	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,011.57	797.16
			For Class 52 Rating, Deduct	-638.41	
			For Class 54 Rating, Add	435.28	
			For Class 55 Rating, Add	967.48	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,188.89	799.69
			For Class 52 Rating, Deduct	-657.50	
			For Class 54 Rating, Add	448.29	
			For Class 55 Rating, Add	996.41	



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,366.22	802.21
			For Class 52 Rating, Deduct	-676.58	
			For Class 54 Rating, Add	461.31	
			For Class 55 Rating, Add	1,025.33	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,543.54	804.73
			For Class 52 Rating, Deduct	-695.67	
			For Class 54 Rating, Add	474.32	
			For Class 55 Rating, Add	1,054.25	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,720.87	807.25
			For Class 52 Rating, Deduct	-714.75	
			For Class 54 Rating, Add	487.33	
			For Class 55 Rating, Add	1,083.17	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,963.18	852.67
			For Class 52 Rating, Deduct	-733.84	
			For Class 54 Rating, Add	500.34	
			For Class 55 Rating, Add	1,112.10	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,140.50	855.19
			For Class 52 Rating, Deduct	-752.92	
			For Class 54 Rating, Add	513.36	
			For Class 55 Rating, Add	1,141.02	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,317.82	857.71
			For Class 52 Rating, Deduct	-772.01	
			For Class 54 Rating, Add	526.37	
			For Class 55 Rating, Add	1,169.94	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,495.15	860.23
			For Class 52 Rating, Deduct	-791.09	
			For Class 54 Rating, Add	539.38	
			For Class 55 Rating, Add	1,198.87	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,672.48	862.76
			For Class 52 Rating, Deduct	-810.18	
			For Class 54 Rating, Add	552.40	
			For Class 55 Rating, Add	1,227.79	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,849.81	865.28
			For Class 52 Rating, Deduct	-829.27	
			For Class 54 Rating, Add	565.41	
			For Class 55 Rating, Add	1,256.71	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,027.13	867.80
			For Class 52 Rating, Deduct	-848.35	
			For Class 54 Rating, Add	578.42	
			For Class 55 Rating, Add	1,285.64	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,204.45	870.32
			For Class 52 Rating, Deduct	-867.44	
			For Class 54 Rating, Add	591.43	
			For Class 55 Rating, Add	1,314.56	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,381.79	872.84
			For Class 52 Rating, Deduct	-886.52	
			For Class 54 Rating, Add	604.45	
			For Class 55 Rating, Add	1,343.48	
40 05 19 00-0950			<b>30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0954)</small>		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,192.53	1,039.35
			For Class 52 Rating, Deduct	-287.95	
			For Class 54 Rating, Add	196.33	
			For Class 55 Rating, Add	436.38	
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,446.98	1,041.87
			For Class 52 Rating, Deduct	-315.52	
			For Class 54 Rating, Add	215.13	
			For Class 55 Rating, Add	478.16	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,701.41	1,044.39
			For Class 52 Rating, Deduct	-343.09	
			For Class 54 Rating, Add	233.93	
			For Class 55 Rating, Add	519.94	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,955.85	1,046.92
			For Class 52 Rating, Deduct	-370.66	
			For Class 54 Rating, Add	252.72	
			For Class 55 Rating, Add	561.72	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955 EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,210.29	1,049.44
<i>For Class 52 Rating, Deduct</i>	-398.23	
<i>For Class 54 Rating, Add</i>	271.52	
<i>For Class 55 Rating, Add</i>	603.49	
40 05 19 00-0956 EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,464.72	1,051.96
<i>For Class 52 Rating, Deduct</i>	-425.79	
<i>For Class 54 Rating, Add</i>	290.31	
<i>For Class 55 Rating, Add</i>	645.27	
40 05 19 00-0957 EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,719.17	1,054.48
<i>For Class 52 Rating, Deduct</i>	-453.36	
<i>For Class 54 Rating, Add</i>	309.11	
<i>For Class 55 Rating, Add</i>	687.05	
40 05 19 00-0958 EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,973.60	1,057.00
<i>For Class 52 Rating, Deduct</i>	-480.93	
<i>For Class 54 Rating, Add</i>	327.91	
<i>For Class 55 Rating, Add</i>	728.83	
40 05 19 00-0959 EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,228.04	1,059.53
<i>For Class 52 Rating, Deduct</i>	-508.50	
<i>For Class 54 Rating, Add</i>	346.70	
<i>For Class 55 Rating, Add</i>	770.60	
40 05 19 00-0960 EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,482.48	1,062.05
<i>For Class 52 Rating, Deduct</i>	-536.07	
<i>For Class 54 Rating, Add</i>	365.50	
<i>For Class 55 Rating, Add</i>	812.38	
40 05 19 00-0961 EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,736.92	1,064.57
<i>For Class 52 Rating, Deduct</i>	-563.63	
<i>For Class 54 Rating, Add</i>	384.29	
<i>For Class 55 Rating, Add</i>	854.16	
40 05 19 00-0962 EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,991.36	1,067.09
<i>For Class 52 Rating, Deduct</i>	-591.20	
<i>For Class 54 Rating, Add</i>	403.09	
<i>For Class 55 Rating, Add</i>	895.94	
40 05 19 00-0963 EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,245.79	1,069.62
<i>For Class 52 Rating, Deduct</i>	-618.77	
<i>For Class 54 Rating, Add</i>	421.89	
<i>For Class 55 Rating, Add</i>	937.71	
40 05 19 00-0964 EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,500.23	1,072.14
<i>For Class 52 Rating, Deduct</i>	-646.34	
<i>For Class 54 Rating, Add</i>	440.68	
<i>For Class 55 Rating, Add</i>	979.49	
40 05 19 00-0965 EA 30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,754.68	1,074.66
<i>For Class 52 Rating, Deduct</i>	-673.90	
<i>For Class 54 Rating, Add</i>	459.48	
<i>For Class 55 Rating, Add</i>	1,021.27	
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,009.11	1,077.18
<i>For Class 52 Rating, Deduct</i>	-701.47	
<i>For Class 54 Rating, Add</i>	478.28	
<i>For Class 55 Rating, Add</i>	1,063.05	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,263.55	1,079.71
<i>For Class 52 Rating, Deduct</i>	-729.04	
<i>For Class 54 Rating, Add</i>	497.07	
<i>For Class 55 Rating, Add</i>	1,104.83	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,517.98	1,082.23
<i>For Class 52 Rating, Deduct</i>	-756.61	
<i>For Class 54 Rating, Add</i>	515.87	
<i>For Class 55 Rating, Add</i>	1,146.60	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,772.43	1,084.75
<i>For Class 52 Rating, Deduct</i>	-784.17	
<i>For Class 54 Rating, Add</i>	534.66	
<i>For Class 55 Rating, Add</i>	1,188.38	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,026.87	1,087.27
<i>For Class 52 Rating, Deduct</i>	-811.74	
<i>For Class 54 Rating, Add</i>	553.46	
<i>For Class 55 Rating, Add</i>	1,230.16	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,281.30	1,089.79
<i>For Class 52 Rating, Deduct</i>	-839.31	
<i>For Class 54 Rating, Add</i>	572.26	
<i>For Class 55 Rating, Add</i>	1,271.94	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,535.74	1,092.33
			For Class 52 Rating, Deduct	-866.88	
			For Class 54 Rating, Add	591.05	
			For Class 55 Rating, Add	1,313.71	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,790.17	1,094.85
			For Class 52 Rating, Deduct	-894.45	
			For Class 54 Rating, Add	609.85	
			For Class 55 Rating, Add	1,355.49	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,044.62	1,097.37
			For Class 52 Rating, Deduct	-922.01	
			For Class 54 Rating, Add	628.65	
			For Class 55 Rating, Add	1,397.27	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,299.06	1,099.89
			For Class 52 Rating, Deduct	-949.58	
			For Class 54 Rating, Add	647.44	
			For Class 55 Rating, Add	1,439.05	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,553.49	1,102.42
			For Class 52 Rating, Deduct	-977.15	
			For Class 54 Rating, Add	666.24	
			For Class 55 Rating, Add	1,480.82	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,807.93	1,104.94
			For Class 52 Rating, Deduct	-1,004.72	
			For Class 54 Rating, Add	685.03	
			For Class 55 Rating, Add	1,522.60	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,062.38	1,107.46
			For Class 52 Rating, Deduct	-1,032.29	
			For Class 54 Rating, Add	703.83	
			For Class 55 Rating, Add	1,564.38	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,316.81	1,109.98
			For Class 52 Rating, Deduct	-1,059.85	
			For Class 54 Rating, Add	722.63	
			For Class 55 Rating, Add	1,606.16	
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,571.25	1,112.51
			For Class 52 Rating, Deduct	-1,087.42	
			For Class 54 Rating, Add	741.42	
			For Class 55 Rating, Add	1,647.94	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,825.68	1,115.03
			For Class 52 Rating, Deduct	-1,114.99	
			For Class 54 Rating, Add	760.22	
			For Class 55 Rating, Add	1,689.71	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,080.13	1,117.55
			For Class 52 Rating, Deduct	-1,142.56	
			For Class 54 Rating, Add	779.02	
			For Class 55 Rating, Add	1,731.49	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,334.57	1,120.07
			For Class 52 Rating, Deduct	-1,170.12	
			For Class 54 Rating, Add	797.81	
			For Class 55 Rating, Add	1,773.27	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,589.00	1,122.59
			For Class 52 Rating, Deduct	-1,197.69	
			For Class 54 Rating, Add	816.61	
			For Class 55 Rating, Add	1,815.05	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,843.44	1,125.12
			For Class 52 Rating, Deduct	-1,225.26	
			For Class 54 Rating, Add	835.40	
			For Class 55 Rating, Add	1,856.82	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,097.88	1,127.64
			For Class 52 Rating, Deduct	-1,252.83	
			For Class 54 Rating, Add	854.20	
			For Class 55 Rating, Add	1,898.60	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,352.32	1,130.16
			For Class 52 Rating, Deduct	-1,280.39	
			For Class 54 Rating, Add	873.00	
			For Class 55 Rating, Add	1,940.38	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,606.76	1,132.68
			For Class 52 Rating, Deduct	-1,307.96	
			For Class 54 Rating, Add	891.79	
			For Class 55 Rating, Add	1,982.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 19 00-0989 36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b>		
40 05 19 00-0990 EA 36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,685.46	1,316.84
<i>For Class 52 Rating, Deduct</i>	-405.93	
<i>For Class 54 Rating, Add</i>	276.77	
<i>For Class 55 Rating, Add</i>	615.16	
40 05 19 00-0991 EA 36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,030.19	1,319.37
<i>For Class 52 Rating, Deduct</i>	-443.43	
<i>For Class 54 Rating, Add</i>	302.34	
<i>For Class 55 Rating, Add</i>	671.99	
40 05 19 00-0992 EA 36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,374.94	1,321.89
<i>For Class 52 Rating, Deduct</i>	-480.93	
<i>For Class 54 Rating, Add</i>	327.91	
<i>For Class 55 Rating, Add</i>	728.83	
40 05 19 00-0993 EA 36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,719.68	1,324.41
<i>For Class 52 Rating, Deduct</i>	-518.43	
<i>For Class 54 Rating, Add</i>	353.48	
<i>For Class 55 Rating, Add</i>	785.66	
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,064.42	1,326.93
<i>For Class 52 Rating, Deduct</i>	-555.93	
<i>For Class 54 Rating, Add</i>	379.04	
<i>For Class 55 Rating, Add</i>	842.49	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,409.16	1,329.46
<i>For Class 52 Rating, Deduct</i>	-593.43	
<i>For Class 54 Rating, Add</i>	404.61	
<i>For Class 55 Rating, Add</i>	899.32	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,753.91	1,331.98
<i>For Class 52 Rating, Deduct</i>	-630.93	
<i>For Class 54 Rating, Add</i>	430.18	
<i>For Class 55 Rating, Add</i>	956.15	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,098.65	1,334.50
<i>For Class 52 Rating, Deduct</i>	-668.43	
<i>For Class 54 Rating, Add</i>	455.75	
<i>For Class 55 Rating, Add</i>	1,012.98	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,443.39	1,337.02
<i>For Class 52 Rating, Deduct</i>	-705.94	
<i>For Class 54 Rating, Add</i>	481.32	
<i>For Class 55 Rating, Add</i>	1,069.81	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,788.13	1,339.54
<i>For Class 52 Rating, Deduct</i>	-743.44	
<i>For Class 54 Rating, Add</i>	506.89	
<i>For Class 55 Rating, Add</i>	1,126.65	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,132.88	1,342.07
<i>For Class 52 Rating, Deduct</i>	-780.94	
<i>For Class 54 Rating, Add</i>	532.46	
<i>For Class 55 Rating, Add</i>	1,183.48	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,477.62	1,344.59
<i>For Class 52 Rating, Deduct</i>	-818.44	
<i>For Class 54 Rating, Add</i>	558.03	
<i>For Class 55 Rating, Add</i>	1,240.31	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,822.35	1,347.11
<i>For Class 52 Rating, Deduct</i>	-855.94	
<i>For Class 54 Rating, Add</i>	583.60	
<i>For Class 55 Rating, Add</i>	1,297.14	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,167.09	1,349.63
<i>For Class 52 Rating, Deduct</i>	-893.44	
<i>For Class 54 Rating, Add</i>	609.16	
<i>For Class 55 Rating, Add</i>	1,353.97	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,511.84	1,352.16
<i>For Class 52 Rating, Deduct</i>	-930.94	
<i>For Class 54 Rating, Add</i>	634.73	
<i>For Class 55 Rating, Add</i>	1,410.80	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,856.58	1,354.68
<i>For Class 52 Rating, Deduct</i>	-968.44	
<i>For Class 54 Rating, Add</i>	660.30	
<i>For Class 55 Rating, Add</i>	1,467.63	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA		36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,201.32	1,357.20
			For Class 52 Rating, Deduct	-1,005.94	
			For Class 54 Rating, Add	685.87	
			For Class 55 Rating, Add	1,524.46	
40 05 19 00-1007	EA		36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,546.06	1,359.72
			For Class 52 Rating, Deduct	-1,043.45	
			For Class 54 Rating, Add	711.44	
			For Class 55 Rating, Add	1,581.29	
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,890.80	1,362.25
			For Class 52 Rating, Deduct	-1,080.95	
			For Class 54 Rating, Add	737.01	
			For Class 55 Rating, Add	1,638.13	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,235.55	1,364.77
			For Class 52 Rating, Deduct	-1,118.45	
			For Class 54 Rating, Add	762.58	
			For Class 55 Rating, Add	1,694.96	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,580.29	1,367.29
			For Class 52 Rating, Deduct	-1,155.95	
			For Class 54 Rating, Add	788.15	
			For Class 55 Rating, Add	1,751.79	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,925.03	1,369.81
			For Class 52 Rating, Deduct	-1,193.45	
			For Class 54 Rating, Add	813.72	
			For Class 55 Rating, Add	1,808.62	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,269.76	1,372.34
			For Class 52 Rating, Deduct	-1,230.95	
			For Class 54 Rating, Add	839.28	
			For Class 55 Rating, Add	1,865.45	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,614.51	1,374.87
			For Class 52 Rating, Deduct	-1,268.45	
			For Class 54 Rating, Add	864.85	
			For Class 55 Rating, Add	1,922.28	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,959.25	1,377.39
			For Class 52 Rating, Deduct	-1,305.95	
			For Class 54 Rating, Add	890.42	
			For Class 55 Rating, Add	1,979.11	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,303.99	1,379.91
			For Class 52 Rating, Deduct	-1,343.45	
			For Class 54 Rating, Add	915.99	
			For Class 55 Rating, Add	2,035.94	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,648.73	1,382.43
			For Class 52 Rating, Deduct	-1,380.96	
			For Class 54 Rating, Add	941.56	
			For Class 55 Rating, Add	2,092.78	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,993.48	1,384.96
			For Class 52 Rating, Deduct	-1,418.46	
			For Class 54 Rating, Add	967.13	
			For Class 55 Rating, Add	2,149.61	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,338.22	1,387.48
			For Class 52 Rating, Deduct	-1,455.96	
			For Class 54 Rating, Add	992.70	
			For Class 55 Rating, Add	2,206.44	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,682.96	1,390.00
			For Class 52 Rating, Deduct	-1,493.46	
			For Class 54 Rating, Add	1,018.27	
			For Class 55 Rating, Add	2,263.27	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,027.70	1,392.52
			For Class 52 Rating, Deduct	-1,530.96	
			For Class 54 Rating, Add	1,043.84	
			For Class 55 Rating, Add	2,320.10	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,372.45	1,395.05
			For Class 52 Rating, Deduct	-1,568.46	
			For Class 54 Rating, Add	1,069.41	
			For Class 55 Rating, Add	2,376.93	
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,717.19	1,397.57
			For Class 52 Rating, Deduct	-1,605.96	
			For Class 54 Rating, Add	1,094.97	
			For Class 55 Rating, Add	2,433.76	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,061.92	1,400.09
For Class 52 Rating, Deduct	-1,643.46	
For Class 54 Rating, Add	1,120.54	
For Class 55 Rating, Add	2,490.59	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,406.66	1,402.61
For Class 52 Rating, Deduct	-1,680.96	
For Class 54 Rating, Add	1,146.11	
For Class 55 Rating, Add	2,547.42	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,751.41	1,405.14
For Class 52 Rating, Deduct	-1,718.47	
For Class 54 Rating, Add	1,171.68	
For Class 55 Rating, Add	2,604.26	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,096.15	1,407.66
For Class 52 Rating, Deduct	-1,755.97	
For Class 54 Rating, Add	1,197.25	
For Class 55 Rating, Add	2,661.09	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,440.89	1,410.18
For Class 52 Rating, Deduct	-1,793.47	
For Class 54 Rating, Add	1,222.82	
For Class 55 Rating, Add	2,717.92	
<b>40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0001)</small>		
<b>40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	334.05	123.38
For Class 52 Rating, Deduct	-16.18	
For Class 54 Rating, Add	11.03	
For Class 55 Rating, Add	24.52	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	363.69	125.53
For Class 52 Rating, Deduct	-19.09	
For Class 54 Rating, Add	13.01	
For Class 55 Rating, Add	28.92	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	393.34	127.69
For Class 52 Rating, Deduct	-21.99	
For Class 54 Rating, Add	14.99	
For Class 55 Rating, Add	33.32	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	422.99	129.84
For Class 52 Rating, Deduct	-24.89	
For Class 54 Rating, Add	16.97	
For Class 55 Rating, Add	37.72	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	452.65	132.00
For Class 52 Rating, Deduct	-27.79	
For Class 54 Rating, Add	18.95	
For Class 55 Rating, Add	42.12	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	482.30	134.16
For Class 52 Rating, Deduct	-30.69	
For Class 54 Rating, Add	20.93	
For Class 55 Rating, Add	46.51	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	511.94	136.32
For Class 52 Rating, Deduct	-33.60	
For Class 54 Rating, Add	22.91	
For Class 55 Rating, Add	50.91	
40 05 19 00-1037 EA 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	541.59	138.47
For Class 52 Rating, Deduct	-36.50	
For Class 54 Rating, Add	24.88	
For Class 55 Rating, Add	55.31	
40 05 19 00-1038 EA 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	571.25	140.63
For Class 52 Rating, Deduct	-39.40	
For Class 54 Rating, Add	26.86	
For Class 55 Rating, Add	59.71	
40 05 19 00-1039 EA 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	600.89	142.79
For Class 52 Rating, Deduct	-42.30	
For Class 54 Rating, Add	28.84	
For Class 55 Rating, Add	64.10	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	630.54	144.94
			For Class 52 Rating, Deduct	-45.20	
			For Class 54 Rating, Add	30.82	
			For Class 55 Rating, Add	68.50	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	660.18	147.10
			For Class 52 Rating, Deduct	-48.10	
			For Class 54 Rating, Add	32.80	
			For Class 55 Rating, Add	72.90	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	689.83	149.26
			For Class 52 Rating, Deduct	-51.01	
			For Class 54 Rating, Add	34.78	
			For Class 55 Rating, Add	77.30	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	719.49	151.41
			For Class 52 Rating, Deduct	-53.91	
			For Class 54 Rating, Add	36.76	
			For Class 55 Rating, Add	81.69	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	749.13	153.57
			For Class 52 Rating, Deduct	-56.81	
			For Class 54 Rating, Add	38.73	
			For Class 55 Rating, Add	86.09	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	778.78	155.73
			For Class 52 Rating, Deduct	-59.71	
			For Class 54 Rating, Add	40.71	
			For Class 55 Rating, Add	90.49	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	808.42	157.88
			For Class 52 Rating, Deduct	-62.61	
			For Class 54 Rating, Add	42.69	
			For Class 55 Rating, Add	94.89	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	838.07	160.04
			For Class 52 Rating, Deduct	-65.51	
			For Class 54 Rating, Add	44.67	
			For Class 55 Rating, Add	99.28	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	867.72	162.20
			For Class 52 Rating, Deduct	-68.42	
			For Class 54 Rating, Add	46.65	
			For Class 55 Rating, Add	103.68	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	897.38	164.36
			For Class 52 Rating, Deduct	-71.32	
			For Class 54 Rating, Add	48.63	
			For Class 55 Rating, Add	108.08	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	927.03	166.51
			For Class 52 Rating, Deduct	-74.22	
			For Class 54 Rating, Add	50.61	
			For Class 55 Rating, Add	112.48	
40 05 19 00-1051	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	956.67	168.67
			For Class 52 Rating, Deduct	-77.12	
			For Class 54 Rating, Add	52.58	
			For Class 55 Rating, Add	116.88	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	986.33	170.83
			For Class 52 Rating, Deduct	-80.03	
			For Class 54 Rating, Add	54.56	
			For Class 55 Rating, Add	121.27	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,015.97	172.98
			For Class 52 Rating, Deduct	-82.93	
			For Class 54 Rating, Add	56.54	
			For Class 55 Rating, Add	125.67	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,045.62	175.14
			For Class 52 Rating, Deduct	-85.83	
			For Class 54 Rating, Add	58.52	
			For Class 55 Rating, Add	130.07	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,075.27	177.30
			For Class 52 Rating, Deduct	-88.73	
			For Class 54 Rating, Add	60.50	
			For Class 55 Rating, Add	134.47	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,104.91	179.45
			For Class 52 Rating, Deduct	-91.63	
			For Class 54 Rating, Add	62.48	
			For Class 55 Rating, Add	138.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,134.57	181.61
<i>For Class 52 Rating, Deduct</i>	-94.53	
<i>For Class 54 Rating, Add</i>	64.46	
<i>For Class 55 Rating, Add</i>	143.26	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,164.21	183.77
<i>For Class 52 Rating, Deduct</i>	-97.44	
<i>For Class 54 Rating, Add</i>	66.43	
<i>For Class 55 Rating, Add</i>	147.66	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,193.86	185.92
<i>For Class 52 Rating, Deduct</i>	-100.34	
<i>For Class 54 Rating, Add</i>	68.41	
<i>For Class 55 Rating, Add</i>	152.06	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,223.51	188.08
<i>For Class 52 Rating, Deduct</i>	-103.24	
<i>For Class 54 Rating, Add</i>	70.39	
<i>For Class 55 Rating, Add</i>	156.45	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,253.15	190.25
<i>For Class 52 Rating, Deduct</i>	-106.14	
<i>For Class 54 Rating, Add</i>	72.37	
<i>For Class 55 Rating, Add</i>	160.85	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,282.81	192.39
<i>For Class 52 Rating, Deduct</i>	-109.04	
<i>For Class 54 Rating, Add</i>	74.35	
<i>For Class 55 Rating, Add</i>	165.25	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,312.45	194.55
<i>For Class 52 Rating, Deduct</i>	-111.94	
<i>For Class 54 Rating, Add</i>	76.33	
<i>For Class 55 Rating, Add</i>	169.65	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,342.10	196.72
<i>For Class 52 Rating, Deduct</i>	-114.85	
<i>For Class 54 Rating, Add</i>	78.30	
<i>For Class 55 Rating, Add</i>	174.04	
40 05 19 00-1065 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,371.76	198.86
<i>For Class 52 Rating, Deduct</i>	-117.75	
<i>For Class 54 Rating, Add</i>	80.28	
<i>For Class 55 Rating, Add</i>	178.44	
40 05 19 00-1066 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,401.40	201.02
<i>For Class 52 Rating, Deduct</i>	-120.65	
<i>For Class 54 Rating, Add</i>	82.26	
<i>For Class 55 Rating, Add</i>	182.84	
40 05 19 00-1067 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,431.06	203.18
<i>For Class 52 Rating, Deduct</i>	-123.55	
<i>For Class 54 Rating, Add</i>	84.24	
<i>For Class 55 Rating, Add</i>	187.24	
40 05 19 00-1068 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,460.70	205.34
<i>For Class 52 Rating, Deduct</i>	-126.45	
<i>For Class 54 Rating, Add</i>	86.22	
<i>For Class 55 Rating, Add</i>	191.64	
<b>40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	418.95	155.30
<i>For Class 52 Rating, Deduct</i>	-20.20	
<i>For Class 54 Rating, Add</i>	13.77	
<i>For Class 55 Rating, Add</i>	30.61	
40 05 19 00-1071 EA 6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	454.68	157.46
<i>For Class 52 Rating, Deduct</i>	-23.77	
<i>For Class 54 Rating, Add</i>	16.21	
<i>For Class 55 Rating, Add</i>	36.03	
40 05 19 00-1072 EA 6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	490.43	159.60
<i>For Class 52 Rating, Deduct</i>	-27.34	
<i>For Class 54 Rating, Add</i>	18.64	
<i>For Class 55 Rating, Add</i>	41.44	
40 05 19 00-1073 EA 6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	526.16	161.77
<i>For Class 52 Rating, Deduct</i>	-30.92	
<i>For Class 54 Rating, Add</i>	21.08	
<i>For Class 55 Rating, Add</i>	46.85	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	561.89	163.93
			For Class 52 Rating, Deduct	-34.49	
			For Class 54 Rating, Add	23.51	
			For Class 55 Rating, Add	52.26	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	597.63	166.07
			For Class 52 Rating, Deduct	-38.06	
			For Class 54 Rating, Add	25.95	
			For Class 55 Rating, Add	57.68	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	633.36	168.24
			For Class 52 Rating, Deduct	-41.63	
			For Class 54 Rating, Add	28.38	
			For Class 55 Rating, Add	63.09	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	669.11	170.40
			For Class 52 Rating, Deduct	-45.20	
			For Class 54 Rating, Add	30.82	
			For Class 55 Rating, Add	68.50	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	704.84	172.55
			For Class 52 Rating, Deduct	-48.77	
			For Class 54 Rating, Add	33.26	
			For Class 55 Rating, Add	73.91	
40 05 19 00-1079	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	740.58	174.71
			For Class 52 Rating, Deduct	-52.35	
			For Class 54 Rating, Add	35.69	
			For Class 55 Rating, Add	79.33	
40 05 19 00-1080	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	776.31	176.87
			For Class 52 Rating, Deduct	-55.92	
			For Class 54 Rating, Add	38.12	
			For Class 55 Rating, Add	84.74	
40 05 19 00-1081	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	812.04	179.02
			For Class 52 Rating, Deduct	-59.49	
			For Class 54 Rating, Add	40.56	
			For Class 55 Rating, Add	90.15	
40 05 19 00-1082	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	847.79	181.17
			For Class 52 Rating, Deduct	-63.06	
			For Class 54 Rating, Add	43.00	
			For Class 55 Rating, Add	95.56	
40 05 19 00-1083	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	883.52	183.34
			For Class 52 Rating, Deduct	-66.63	
			For Class 54 Rating, Add	45.43	
			For Class 55 Rating, Add	100.98	
40 05 19 00-1084	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	919.26	185.49
			For Class 52 Rating, Deduct	-70.20	
			For Class 54 Rating, Add	47.87	
			For Class 55 Rating, Add	106.39	
40 05 19 00-1085	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	954.99	187.65
			For Class 52 Rating, Deduct	-73.77	
			For Class 54 Rating, Add	50.30	
			For Class 55 Rating, Add	111.80	
40 05 19 00-1086	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	990.74	189.81
			For Class 52 Rating, Deduct	-77.35	
			For Class 54 Rating, Add	52.74	
			For Class 55 Rating, Add	117.22	
40 05 19 00-1087	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,026.47	191.96
			For Class 52 Rating, Deduct	-80.92	
			For Class 54 Rating, Add	55.17	
			For Class 55 Rating, Add	122.63	
40 05 19 00-1088	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,062.20	194.12
			For Class 52 Rating, Deduct	-84.49	
			For Class 54 Rating, Add	57.61	
			For Class 55 Rating, Add	128.04	
40 05 19 00-1089	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,097.94	196.28
			For Class 52 Rating, Deduct	-88.06	
			For Class 54 Rating, Add	60.04	
			For Class 55 Rating, Add	133.45	
40 05 19 00-1090	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,133.67	198.43
			For Class 52 Rating, Deduct	-91.63	
			For Class 54 Rating, Add	62.48	
			For Class 55 Rating, Add	138.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,169.42	200.59
<i>For Class 52 Rating, Deduct</i>	-95.20	
<i>For Class 54 Rating, Add</i>	64.91	
<i>For Class 55 Rating, Add</i>	144.28	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,205.16	202.75
<i>For Class 52 Rating, Deduct</i>	-98.78	
<i>For Class 54 Rating, Add</i>	67.35	
<i>For Class 55 Rating, Add</i>	149.69	
40 05 19 00-1093 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,240.88	204.91
<i>For Class 52 Rating, Deduct</i>	-102.35	
<i>For Class 54 Rating, Add</i>	69.78	
<i>For Class 55 Rating, Add</i>	155.10	
40 05 19 00-1094 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,276.62	207.06
<i>For Class 52 Rating, Deduct</i>	-105.92	
<i>For Class 54 Rating, Add</i>	72.22	
<i>For Class 55 Rating, Add</i>	160.51	
40 05 19 00-1095 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,312.35	209.22
<i>For Class 52 Rating, Deduct</i>	-109.49	
<i>For Class 54 Rating, Add</i>	74.65	
<i>For Class 55 Rating, Add</i>	165.93	
40 05 19 00-1096 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,348.10	211.37
<i>For Class 52 Rating, Deduct</i>	-113.06	
<i>For Class 54 Rating, Add</i>	77.09	
<i>For Class 55 Rating, Add</i>	171.34	
40 05 19 00-1097 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,383.84	213.53
<i>For Class 52 Rating, Deduct</i>	-116.63	
<i>For Class 54 Rating, Add</i>	79.52	
<i>For Class 55 Rating, Add</i>	176.75	
40 05 19 00-1098 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,419.57	215.69
<i>For Class 52 Rating, Deduct</i>	-120.20	
<i>For Class 54 Rating, Add</i>	81.96	
<i>For Class 55 Rating, Add</i>	182.16	
40 05 19 00-1099 EA 6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,455.31	217.85
<i>For Class 52 Rating, Deduct</i>	-123.78	
<i>For Class 54 Rating, Add</i>	84.39	
<i>For Class 55 Rating, Add</i>	187.58	
40 05 19 00-1100 EA 6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,491.03	220.00
<i>For Class 52 Rating, Deduct</i>	-127.35	
<i>For Class 54 Rating, Add</i>	86.83	
<i>For Class 55 Rating, Add</i>	192.99	
40 05 19 00-1101 EA 6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,526.78	222.16
<i>For Class 52 Rating, Deduct</i>	-130.92	
<i>For Class 54 Rating, Add</i>	89.26	
<i>For Class 55 Rating, Add</i>	198.40	
40 05 19 00-1102 EA 6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,562.52	224.32
<i>For Class 52 Rating, Deduct</i>	-134.49	
<i>For Class 54 Rating, Add</i>	91.70	
<i>For Class 55 Rating, Add</i>	203.81	
40 05 19 00-1103 EA 6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,598.25	226.48
<i>For Class 52 Rating, Deduct</i>	-138.06	
<i>For Class 54 Rating, Add</i>	94.13	
<i>For Class 55 Rating, Add</i>	209.23	
40 05 19 00-1104 EA 6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,633.99	228.63
<i>For Class 52 Rating, Deduct</i>	-141.63	
<i>For Class 54 Rating, Add</i>	96.57	
<i>For Class 55 Rating, Add</i>	214.64	
40 05 19 00-1105 EA 6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,669.73	230.79
<i>For Class 52 Rating, Deduct</i>	-145.21	
<i>For Class 54 Rating, Add</i>	99.00	
<i>For Class 55 Rating, Add</i>	220.05	
40 05 19 00-1106 EA 6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,705.47	232.94
<i>For Class 52 Rating, Deduct</i>	-148.78	
<i>For Class 54 Rating, Add</i>	101.44	
<i>For Class 55 Rating, Add</i>	225.47	
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,741.20	235.10
<i>For Class 52 Rating, Deduct</i>	-152.35	
<i>For Class 54 Rating, Add</i>	103.87	
<i>For Class 55 Rating, Add</i>	230.88	



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA		6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,776.93	237.26
			<i>For Class 52 Rating, Deduct</i>	-155.92	
			<i>For Class 54 Rating, Add</i>	106.31	
			<i>For Class 55 Rating, Add</i>	236.29	
<b>40 05 19 00-1109</b>			<b>8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110	EA		8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	567.50	198.43
			<i>For Class 52 Rating, Deduct</i>	-29.35	
			<i>For Class 54 Rating, Add</i>	20.01	
			<i>For Class 55 Rating, Add</i>	44.48	
40 05 19 00-1111	EA		8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	615.42	200.59
			<i>For Class 52 Rating, Deduct</i>	-34.26	
			<i>For Class 54 Rating, Add</i>	23.36	
			<i>For Class 55 Rating, Add</i>	51.93	
40 05 19 00-1112	EA		8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	663.34	202.75
			<i>For Class 52 Rating, Deduct</i>	-39.18	
			<i>For Class 54 Rating, Add</i>	26.71	
			<i>For Class 55 Rating, Add</i>	59.37	
40 05 19 00-1113	EA		8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	711.24	204.91
			<i>For Class 52 Rating, Deduct</i>	-44.09	
			<i>For Class 54 Rating, Add</i>	30.06	
			<i>For Class 55 Rating, Add</i>	66.81	
40 05 19 00-1114	EA		8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	759.16	207.06
			<i>For Class 52 Rating, Deduct</i>	-49.00	
			<i>For Class 54 Rating, Add</i>	33.41	
			<i>For Class 55 Rating, Add</i>	74.25	
40 05 19 00-1115	EA		8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	807.06	209.22
			<i>For Class 52 Rating, Deduct</i>	-53.91	
			<i>For Class 54 Rating, Add</i>	36.76	
			<i>For Class 55 Rating, Add</i>	81.69	
40 05 19 00-1116	EA		8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	854.99	211.37
			<i>For Class 52 Rating, Deduct</i>	-58.82	
			<i>For Class 54 Rating, Add</i>	40.10	
			<i>For Class 55 Rating, Add</i>	89.14	
40 05 19 00-1117	EA		8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	902.90	213.53
			<i>For Class 52 Rating, Deduct</i>	-63.73	
			<i>For Class 54 Rating, Add</i>	43.45	
			<i>For Class 55 Rating, Add</i>	96.58	
40 05 19 00-1118	EA		8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	950.80	215.69
			<i>For Class 52 Rating, Deduct</i>	-68.64	
			<i>For Class 54 Rating, Add</i>	46.80	
			<i>For Class 55 Rating, Add</i>	104.02	
40 05 19 00-1119	EA		8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	998.72	217.85
			<i>For Class 52 Rating, Deduct</i>	-73.55	
			<i>For Class 54 Rating, Add</i>	50.15	
			<i>For Class 55 Rating, Add</i>	111.46	
40 05 19 00-1120	EA		8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,046.62	220.00
			<i>For Class 52 Rating, Deduct</i>	-78.46	
			<i>For Class 54 Rating, Add</i>	53.50	
			<i>For Class 55 Rating, Add</i>	118.91	
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,094.55	222.16
			<i>For Class 52 Rating, Deduct</i>	-83.37	
			<i>For Class 54 Rating, Add</i>	56.85	
			<i>For Class 55 Rating, Add</i>	126.35	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,142.46	224.32
			<i>For Class 52 Rating, Deduct</i>	-88.28	
			<i>For Class 54 Rating, Add</i>	60.19	
			<i>For Class 55 Rating, Add</i>	133.79	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,190.36	226.48
			<i>For Class 52 Rating, Deduct</i>	-93.19	
			<i>For Class 54 Rating, Add</i>	63.54	
			<i>For Class 55 Rating, Add</i>	141.23	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,238.28	228.63
			<i>For Class 52 Rating, Deduct</i>	-98.11	
			<i>For Class 54 Rating, Add</i>	66.89	
			<i>For Class 55 Rating, Add</i>	148.67	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125 EA 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,286.19	230.79
<i>For Class 52 Rating, Deduct</i>	-103.02	
<i>For Class 54 Rating, Add</i>	70.24	
<i>For Class 55 Rating, Add</i>	156.12	
40 05 19 00-1126 EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,334.11	232.94
<i>For Class 52 Rating, Deduct</i>	-107.93	
<i>For Class 54 Rating, Add</i>	73.59	
<i>For Class 55 Rating, Add</i>	163.56	
40 05 19 00-1127 EA 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,382.02	235.10
<i>For Class 52 Rating, Deduct</i>	-112.84	
<i>For Class 54 Rating, Add</i>	76.94	
<i>For Class 55 Rating, Add</i>	171.00	
40 05 19 00-1128 EA 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,429.93	237.26
<i>For Class 52 Rating, Deduct</i>	-117.75	
<i>For Class 54 Rating, Add</i>	80.28	
<i>For Class 55 Rating, Add</i>	178.44	
40 05 19 00-1129 EA 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,477.84	239.41
<i>For Class 52 Rating, Deduct</i>	-122.66	
<i>For Class 54 Rating, Add</i>	83.63	
<i>For Class 55 Rating, Add</i>	185.89	
40 05 19 00-1130 EA 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,525.75	241.58
<i>For Class 52 Rating, Deduct</i>	-127.57	
<i>For Class 54 Rating, Add</i>	86.98	
<i>For Class 55 Rating, Add</i>	193.33	
40 05 19 00-1131 EA 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,573.67	243.73
<i>For Class 52 Rating, Deduct</i>	-132.48	
<i>For Class 54 Rating, Add</i>	90.33	
<i>For Class 55 Rating, Add</i>	200.77	
40 05 19 00-1132 EA 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,621.57	245.88
<i>For Class 52 Rating, Deduct</i>	-137.39	
<i>For Class 54 Rating, Add</i>	93.68	
<i>For Class 55 Rating, Add</i>	208.21	
40 05 19 00-1133 EA 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,669.49	248.04
<i>For Class 52 Rating, Deduct</i>	-142.30	
<i>For Class 54 Rating, Add</i>	97.03	
<i>For Class 55 Rating, Add</i>	215.65	
40 05 19 00-1134 EA 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,717.40	250.21
<i>For Class 52 Rating, Deduct</i>	-147.21	
<i>For Class 54 Rating, Add</i>	100.37	
<i>For Class 55 Rating, Add</i>	223.10	
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,765.31	252.35
<i>For Class 52 Rating, Deduct</i>	-152.12	
<i>For Class 54 Rating, Add</i>	103.72	
<i>For Class 55 Rating, Add</i>	230.54	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,813.23	254.51
<i>For Class 52 Rating, Deduct</i>	-157.04	
<i>For Class 54 Rating, Add</i>	107.07	
<i>For Class 55 Rating, Add</i>	237.98	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,861.13	256.68
<i>For Class 52 Rating, Deduct</i>	-161.95	
<i>For Class 54 Rating, Add</i>	110.42	
<i>For Class 55 Rating, Add</i>	245.42	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,909.05	258.83
<i>For Class 52 Rating, Deduct</i>	-166.86	
<i>For Class 54 Rating, Add</i>	113.77	
<i>For Class 55 Rating, Add</i>	252.87	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,956.96	260.98
<i>For Class 52 Rating, Deduct</i>	-171.77	
<i>For Class 54 Rating, Add</i>	117.11	
<i>For Class 55 Rating, Add</i>	260.31	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,004.88	263.14
<i>For Class 52 Rating, Deduct</i>	-176.68	
<i>For Class 54 Rating, Add</i>	120.46	
<i>For Class 55 Rating, Add</i>	267.75	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,052.79	265.30
<i>For Class 52 Rating, Deduct</i>	-181.59	
<i>For Class 54 Rating, Add</i>	123.81	
<i>For Class 55 Rating, Add</i>	275.19	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,100.69	267.45
			<i>For Class 52 Rating, Deduct</i>	-186.50	
			<i>For Class 54 Rating, Add</i>	127.16	
			<i>For Class 55 Rating, Add</i>	282.63	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,148.61	269.61
			<i>For Class 52 Rating, Deduct</i>	-191.41	
			<i>For Class 54 Rating, Add</i>	130.51	
			<i>For Class 55 Rating, Add</i>	290.08	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,196.53	271.78
			<i>For Class 52 Rating, Deduct</i>	-196.32	
			<i>For Class 54 Rating, Add</i>	133.86	
			<i>For Class 55 Rating, Add</i>	297.52	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,244.44	273.92
			<i>For Class 52 Rating, Deduct</i>	-201.23	
			<i>For Class 54 Rating, Add</i>	137.21	
			<i>For Class 55 Rating, Add</i>	304.96	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,292.35	276.08
			<i>For Class 52 Rating, Deduct</i>	-206.14	
			<i>For Class 54 Rating, Add</i>	140.55	
			<i>For Class 55 Rating, Add</i>	312.40	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,340.25	278.25
			<i>For Class 52 Rating, Deduct</i>	-211.05	
			<i>For Class 54 Rating, Add</i>	143.90	
			<i>For Class 55 Rating, Add</i>	319.84	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,388.17	280.40
			<i>For Class 52 Rating, Deduct</i>	-215.97	
			<i>For Class 54 Rating, Add</i>	147.25	
			<i>For Class 55 Rating, Add</i>	327.29	
<b>40 05 19 00-1149</b>			<b>10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	709.98	241.58
			<i>For Class 52 Rating, Deduct</i>	-37.84	
			<i>For Class 54 Rating, Add</i>	25.80	
			<i>For Class 55 Rating, Add</i>	57.34	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	772.10	243.73
			<i>For Class 52 Rating, Deduct</i>	-44.31	
			<i>For Class 54 Rating, Add</i>	30.21	
			<i>For Class 55 Rating, Add</i>	67.15	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	834.21	245.88
			<i>For Class 52 Rating, Deduct</i>	-50.78	
			<i>For Class 54 Rating, Add</i>	34.62	
			<i>For Class 55 Rating, Add</i>	76.96	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	896.33	248.04
			<i>For Class 52 Rating, Deduct</i>	-57.26	
			<i>For Class 54 Rating, Add</i>	39.04	
			<i>For Class 55 Rating, Add</i>	86.77	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	958.45	250.21
			<i>For Class 52 Rating, Deduct</i>	-63.73	
			<i>For Class 54 Rating, Add</i>	43.45	
			<i>For Class 55 Rating, Add</i>	96.58	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,020.57	252.35
			<i>For Class 52 Rating, Deduct</i>	-70.20	
			<i>For Class 54 Rating, Add</i>	47.87	
			<i>For Class 55 Rating, Add</i>	106.39	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,082.69	254.51
			<i>For Class 52 Rating, Deduct</i>	-76.68	
			<i>For Class 54 Rating, Add</i>	52.28	
			<i>For Class 55 Rating, Add</i>	116.20	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,144.80	256.68
			<i>For Class 52 Rating, Deduct</i>	-83.15	
			<i>For Class 54 Rating, Add</i>	56.69	
			<i>For Class 55 Rating, Add</i>	126.01	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,206.92	258.83
			<i>For Class 52 Rating, Deduct</i>	-89.62	
			<i>For Class 54 Rating, Add</i>	61.11	
			<i>For Class 55 Rating, Add</i>	135.82	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159 EA 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,269.03	260.98
<i>For Class 52 Rating, Deduct</i>	-96.10	
<i>For Class 54 Rating, Add</i>	65.52	
<i>For Class 55 Rating, Add</i>	145.63	
40 05 19 00-1160 EA 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,331.15	263.14
<i>For Class 52 Rating, Deduct</i>	-102.57	
<i>For Class 54 Rating, Add</i>	69.93	
<i>For Class 55 Rating, Add</i>	155.44	
40 05 19 00-1161 EA 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,393.27	265.30
<i>For Class 52 Rating, Deduct</i>	-109.04	
<i>For Class 54 Rating, Add</i>	74.35	
<i>For Class 55 Rating, Add</i>	165.25	
40 05 19 00-1162 EA 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,455.38	267.45
<i>For Class 52 Rating, Deduct</i>	-115.52	
<i>For Class 54 Rating, Add</i>	78.76	
<i>For Class 55 Rating, Add</i>	175.06	
40 05 19 00-1163 EA 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,517.50	269.61
<i>For Class 52 Rating, Deduct</i>	-121.99	
<i>For Class 54 Rating, Add</i>	83.18	
<i>For Class 55 Rating, Add</i>	184.87	
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,579.63	271.78
<i>For Class 52 Rating, Deduct</i>	-128.46	
<i>For Class 54 Rating, Add</i>	87.59	
<i>For Class 55 Rating, Add</i>	194.68	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,641.74	273.92
<i>For Class 52 Rating, Deduct</i>	-134.94	
<i>For Class 54 Rating, Add</i>	92.00	
<i>For Class 55 Rating, Add</i>	204.49	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,703.86	276.08
<i>For Class 52 Rating, Deduct</i>	-141.41	
<i>For Class 54 Rating, Add</i>	96.42	
<i>For Class 55 Rating, Add</i>	214.30	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,765.97	278.25
<i>For Class 52 Rating, Deduct</i>	-147.88	
<i>For Class 54 Rating, Add</i>	100.83	
<i>For Class 55 Rating, Add</i>	224.11	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,828.09	280.40
<i>For Class 52 Rating, Deduct</i>	-154.36	
<i>For Class 54 Rating, Add</i>	105.24	
<i>For Class 55 Rating, Add</i>	233.92	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,890.22	282.55
<i>For Class 52 Rating, Deduct</i>	-160.83	
<i>For Class 54 Rating, Add</i>	109.66	
<i>For Class 55 Rating, Add</i>	243.73	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,952.33	284.71
<i>For Class 52 Rating, Deduct</i>	-167.30	
<i>For Class 54 Rating, Add</i>	114.07	
<i>For Class 55 Rating, Add</i>	253.54	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,014.44	286.87
<i>For Class 52 Rating, Deduct</i>	-173.78	
<i>For Class 54 Rating, Add</i>	118.48	
<i>For Class 55 Rating, Add</i>	263.35	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,076.55	289.02
<i>For Class 52 Rating, Deduct</i>	-180.25	
<i>For Class 54 Rating, Add</i>	122.90	
<i>For Class 55 Rating, Add</i>	273.16	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,138.67	291.18
<i>For Class 52 Rating, Deduct</i>	-186.72	
<i>For Class 54 Rating, Add</i>	127.31	
<i>For Class 55 Rating, Add</i>	282.97	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,200.79	293.34
<i>For Class 52 Rating, Deduct</i>	-193.20	
<i>For Class 54 Rating, Add</i>	131.73	
<i>For Class 55 Rating, Add</i>	292.78	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,262.91	295.50
<i>For Class 52 Rating, Deduct</i>	-199.67	
<i>For Class 54 Rating, Add</i>	136.14	
<i>For Class 55 Rating, Add</i>	302.59	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,325.03	297.65
		<i>For Class 52 Rating, Deduct</i>	-206.14	
		<i>For Class 54 Rating, Add</i>	140.55	
		<i>For Class 55 Rating, Add</i>	312.40	
40 05 19 00-1177	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,387.14	299.80
		<i>For Class 52 Rating, Deduct</i>	-212.62	
		<i>For Class 54 Rating, Add</i>	144.97	
		<i>For Class 55 Rating, Add</i>	322.21	
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,449.26	301.97
		<i>For Class 52 Rating, Deduct</i>	-219.09	
		<i>For Class 54 Rating, Add</i>	149.38	
		<i>For Class 55 Rating, Add</i>	332.02	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,511.38	304.13
		<i>For Class 52 Rating, Deduct</i>	-225.56	
		<i>For Class 54 Rating, Add</i>	153.79	
		<i>For Class 55 Rating, Add</i>	341.83	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,573.50	306.27
		<i>For Class 52 Rating, Deduct</i>	-232.04	
		<i>For Class 54 Rating, Add</i>	158.21	
		<i>For Class 55 Rating, Add</i>	351.64	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,635.62	308.44
		<i>For Class 52 Rating, Deduct</i>	-238.51	
		<i>For Class 54 Rating, Add</i>	162.62	
		<i>For Class 55 Rating, Add</i>	361.45	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,697.72	310.60
		<i>For Class 52 Rating, Deduct</i>	-244.98	
		<i>For Class 54 Rating, Add</i>	167.03	
		<i>For Class 55 Rating, Add</i>	371.26	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,759.85	312.74
		<i>For Class 52 Rating, Deduct</i>	-251.46	
		<i>For Class 54 Rating, Add</i>	171.45	
		<i>For Class 55 Rating, Add</i>	381.07	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,821.96	314.90
		<i>For Class 52 Rating, Deduct</i>	-257.93	
		<i>For Class 54 Rating, Add</i>	175.86	
		<i>For Class 55 Rating, Add</i>	390.88	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,884.08	317.07
		<i>For Class 52 Rating, Deduct</i>	-264.40	
		<i>For Class 54 Rating, Add</i>	180.28	
		<i>For Class 55 Rating, Add</i>	400.69	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,946.20	319.22
		<i>For Class 52 Rating, Deduct</i>	-270.88	
		<i>For Class 54 Rating, Add</i>	184.69	
		<i>For Class 55 Rating, Add</i>	410.50	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,008.31	321.37
		<i>For Class 52 Rating, Deduct</i>	-277.35	
		<i>For Class 54 Rating, Add</i>	189.10	
		<i>For Class 55 Rating, Add</i>	420.31	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,070.44	323.54
		<i>For Class 52 Rating, Deduct</i>	-283.83	
		<i>For Class 54 Rating, Add</i>	193.52	
		<i>For Class 55 Rating, Add</i>	430.12	
40 05 19 00-1189		<b>12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	916.14	301.97
		<i>For Class 52 Rating, Deduct</i>	-50.45	
		<i>For Class 54 Rating, Add</i>	34.40	
		<i>For Class 55 Rating, Add</i>	76.45	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	993.48	304.13
		<i>For Class 52 Rating, Deduct</i>	-58.60	
		<i>For Class 54 Rating, Add</i>	39.95	
		<i>For Class 55 Rating, Add</i>	88.80	
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,070.81	306.27
		<i>For Class 52 Rating, Deduct</i>	-66.74	
		<i>For Class 54 Rating, Add</i>	45.51	
		<i>For Class 55 Rating, Add</i>	101.15	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,148.15	308.44
<i>For Class 52 Rating, Deduct</i>	-74.89	
<i>For Class 54 Rating, Add</i>	51.06	
<i>For Class 55 Rating, Add</i>	113.49	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,225.48	310.60
<i>For Class 52 Rating, Deduct</i>	-83.04	
<i>For Class 54 Rating, Add</i>	56.62	
<i>For Class 55 Rating, Add</i>	125.84	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,302.83	312.74
<i>For Class 52 Rating, Deduct</i>	-91.19	
<i>For Class 54 Rating, Add</i>	62.17	
<i>For Class 55 Rating, Add</i>	138.19	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,380.16	314.90
<i>For Class 52 Rating, Deduct</i>	-99.33	
<i>For Class 54 Rating, Add</i>	67.73	
<i>For Class 55 Rating, Add</i>	150.54	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,457.50	317.07
<i>For Class 52 Rating, Deduct</i>	-107.48	
<i>For Class 54 Rating, Add</i>	73.28	
<i>For Class 55 Rating, Add</i>	162.88	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,534.84	319.22
<i>For Class 52 Rating, Deduct</i>	-115.63	
<i>For Class 54 Rating, Add</i>	78.84	
<i>For Class 55 Rating, Add</i>	175.23	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,612.17	321.37
<i>For Class 52 Rating, Deduct</i>	-123.78	
<i>For Class 54 Rating, Add</i>	84.39	
<i>For Class 55 Rating, Add</i>	187.58	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,689.51	323.54
<i>For Class 52 Rating, Deduct</i>	-131.92	
<i>For Class 54 Rating, Add</i>	89.95	
<i>For Class 55 Rating, Add</i>	199.92	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,766.84	325.69
<i>For Class 52 Rating, Deduct</i>	-140.07	
<i>For Class 54 Rating, Add</i>	95.50	
<i>For Class 55 Rating, Add</i>	212.27	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,844.18	327.84
<i>For Class 52 Rating, Deduct</i>	-148.22	
<i>For Class 54 Rating, Add</i>	101.06	
<i>For Class 55 Rating, Add</i>	224.62	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,921.52	330.00
<i>For Class 52 Rating, Deduct</i>	-156.37	
<i>For Class 54 Rating, Add</i>	106.61	
<i>For Class 55 Rating, Add</i>	236.97	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,998.85	332.17
<i>For Class 52 Rating, Deduct</i>	-164.51	
<i>For Class 54 Rating, Add</i>	112.17	
<i>For Class 55 Rating, Add</i>	249.31	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,076.20	334.32
<i>For Class 52 Rating, Deduct</i>	-172.66	
<i>For Class 54 Rating, Add</i>	117.72	
<i>For Class 55 Rating, Add</i>	261.66	
40 05 19 00-1206 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,153.53	336.47
<i>For Class 52 Rating, Deduct</i>	-180.81	
<i>For Class 54 Rating, Add</i>	123.28	
<i>For Class 55 Rating, Add</i>	274.01	
40 05 19 00-1207 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,230.87	338.64
<i>For Class 52 Rating, Deduct</i>	-188.96	
<i>For Class 54 Rating, Add</i>	128.83	
<i>For Class 55 Rating, Add</i>	286.36	
40 05 19 00-1208 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,308.20	340.79
<i>For Class 52 Rating, Deduct</i>	-197.10	
<i>For Class 54 Rating, Add</i>	134.39	
<i>For Class 55 Rating, Add</i>	298.70	
40 05 19 00-1209 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,385.53	342.94
<i>For Class 52 Rating, Deduct</i>	-205.25	
<i>For Class 54 Rating, Add</i>	139.94	
<i>For Class 55 Rating, Add</i>	311.05	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,462.88	345.10
			<i>For Class 52 Rating, Deduct</i>	-213.40	
			<i>For Class 54 Rating, Add</i>	145.50	
			<i>For Class 55 Rating, Add</i>	323.40	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,540.21	347.26
			<i>For Class 52 Rating, Deduct</i>	-221.55	
			<i>For Class 54 Rating, Add</i>	151.05	
			<i>For Class 55 Rating, Add</i>	335.74	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,617.55	349.42
			<i>For Class 52 Rating, Deduct</i>	-229.69	
			<i>For Class 54 Rating, Add</i>	156.61	
			<i>For Class 55 Rating, Add</i>	348.09	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,694.88	351.57
			<i>For Class 52 Rating, Deduct</i>	-237.84	
			<i>For Class 54 Rating, Add</i>	162.17	
			<i>For Class 55 Rating, Add</i>	360.44	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,772.22	353.73
			<i>For Class 52 Rating, Deduct</i>	-245.99	
			<i>For Class 54 Rating, Add</i>	167.72	
			<i>For Class 55 Rating, Add</i>	372.79	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,849.57	355.89
			<i>For Class 52 Rating, Deduct</i>	-254.14	
			<i>For Class 54 Rating, Add</i>	173.28	
			<i>For Class 55 Rating, Add</i>	385.13	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,926.89	358.05
			<i>For Class 52 Rating, Deduct</i>	-262.28	
			<i>For Class 54 Rating, Add</i>	178.83	
			<i>For Class 55 Rating, Add</i>	397.48	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,004.23	360.20
			<i>For Class 52 Rating, Deduct</i>	-270.43	
			<i>For Class 54 Rating, Add</i>	184.39	
			<i>For Class 55 Rating, Add</i>	409.83	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,081.56	362.36
			<i>For Class 52 Rating, Deduct</i>	-278.58	
			<i>For Class 54 Rating, Add</i>	189.94	
			<i>For Class 55 Rating, Add</i>	422.17	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,158.91	364.52
			<i>For Class 52 Rating, Deduct</i>	-286.73	
			<i>For Class 54 Rating, Add</i>	195.50	
			<i>For Class 55 Rating, Add</i>	434.52	
40 05 19 00-1220	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,236.25	366.66
			<i>For Class 52 Rating, Deduct</i>	-294.87	
			<i>For Class 54 Rating, Add</i>	201.05	
			<i>For Class 55 Rating, Add</i>	446.87	
40 05 19 00-1221	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,313.58	368.83
			<i>For Class 52 Rating, Deduct</i>	-303.02	
			<i>For Class 54 Rating, Add</i>	206.61	
			<i>For Class 55 Rating, Add</i>	459.22	
40 05 19 00-1222	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,390.92	370.99
			<i>For Class 52 Rating, Deduct</i>	-311.17	
			<i>For Class 54 Rating, Add</i>	212.16	
			<i>For Class 55 Rating, Add</i>	471.56	
40 05 19 00-1223	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,468.24	373.14
			<i>For Class 52 Rating, Deduct</i>	-319.32	
			<i>For Class 54 Rating, Add</i>	217.72	
			<i>For Class 55 Rating, Add</i>	483.91	
40 05 19 00-1224	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,545.59	375.30
			<i>For Class 52 Rating, Deduct</i>	-327.46	
			<i>For Class 54 Rating, Add</i>	223.27	
			<i>For Class 55 Rating, Add</i>	496.26	
40 05 19 00-1225	EA		12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,622.93	377.46
			<i>For Class 52 Rating, Deduct</i>	-335.61	
			<i>For Class 54 Rating, Add</i>	228.83	
			<i>For Class 55 Rating, Add</i>	508.61	
40 05 19 00-1226	EA		12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,700.26	379.61
			<i>For Class 52 Rating, Deduct</i>	-343.76	
			<i>For Class 54 Rating, Add</i>	234.38	
			<i>For Class 55 Rating, Add</i>	520.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,777.60	381.76
<i>For Class 52 Rating, Deduct</i>	-351.91	
<i>For Class 54 Rating, Add</i>	239.94	
<i>For Class 55 Rating, Add</i>	533.30	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,854.93	383.93
<i>For Class 52 Rating, Deduct</i>	-360.06	
<i>For Class 54 Rating, Add</i>	245.49	
<i>For Class 55 Rating, Add</i>	545.65	
<b>40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,203.46	362.36
<i>For Class 52 Rating, Deduct</i>	-71.99	
<i>For Class 54 Rating, Add</i>	49.08	
<i>For Class 55 Rating, Add</i>	109.10	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,297.05	364.52
<i>For Class 52 Rating, Deduct</i>	-81.92	
<i>For Class 54 Rating, Add</i>	55.86	
<i>For Class 55 Rating, Add</i>	124.15	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,390.62	366.66
<i>For Class 52 Rating, Deduct</i>	-91.86	
<i>For Class 54 Rating, Add</i>	62.63	
<i>For Class 55 Rating, Add</i>	139.20	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,484.18	368.83
<i>For Class 52 Rating, Deduct</i>	-101.79	
<i>For Class 54 Rating, Add</i>	69.40	
<i>For Class 55 Rating, Add</i>	154.26	
40 05 19 00-1234 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,577.75	370.99
<i>For Class 52 Rating, Deduct</i>	-111.72	
<i>For Class 54 Rating, Add</i>	76.17	
<i>For Class 55 Rating, Add</i>	169.31	
40 05 19 00-1235 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,671.32	373.14
<i>For Class 52 Rating, Deduct</i>	-121.66	
<i>For Class 54 Rating, Add</i>	82.95	
<i>For Class 55 Rating, Add</i>	184.36	
40 05 19 00-1236 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.90	375.30
<i>For Class 52 Rating, Deduct</i>	-131.59	
<i>For Class 54 Rating, Add</i>	89.72	
<i>For Class 55 Rating, Add</i>	199.42	
40 05 19 00-1237 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,858.47	377.46
<i>For Class 52 Rating, Deduct</i>	-141.52	
<i>For Class 54 Rating, Add</i>	96.49	
<i>For Class 55 Rating, Add</i>	214.47	
40 05 19 00-1238 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,952.04	379.61
<i>For Class 52 Rating, Deduct</i>	-151.46	
<i>For Class 54 Rating, Add</i>	103.27	
<i>For Class 55 Rating, Add</i>	229.52	
40 05 19 00-1239 EA 14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,045.61	381.76
<i>For Class 52 Rating, Deduct</i>	-161.39	
<i>For Class 54 Rating, Add</i>	110.04	
<i>For Class 55 Rating, Add</i>	244.58	
40 05 19 00-1240 EA 14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,139.17	383.93
<i>For Class 52 Rating, Deduct</i>	-171.32	
<i>For Class 54 Rating, Add</i>	116.81	
<i>For Class 55 Rating, Add</i>	259.63	
40 05 19 00-1241 EA 14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,232.76	386.08
<i>For Class 52 Rating, Deduct</i>	-181.26	
<i>For Class 54 Rating, Add</i>	123.58	
<i>For Class 55 Rating, Add</i>	274.68	
40 05 19 00-1242 EA 14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,326.33	388.24
<i>For Class 52 Rating, Deduct</i>	-191.19	
<i>For Class 54 Rating, Add</i>	130.36	
<i>For Class 55 Rating, Add</i>	289.74	
40 05 19 00-1243 EA 14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,419.89	390.40
<i>For Class 52 Rating, Deduct</i>	-201.12	
<i>For Class 54 Rating, Add</i>	137.13	
<i>For Class 55 Rating, Add</i>	304.79	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,513.46	392.56
			For Class 52 Rating, Deduct	-211.05	
			For Class 54 Rating, Add	143.90	
			For Class 55 Rating, Add	319.84	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,607.04	394.71
			For Class 52 Rating, Deduct	-220.99	
			For Class 54 Rating, Add	150.67	
			For Class 55 Rating, Add	334.90	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,700.61	396.86
			For Class 52 Rating, Deduct	-230.92	
			For Class 54 Rating, Add	157.45	
			For Class 55 Rating, Add	349.95	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,794.17	399.03
			For Class 52 Rating, Deduct	-240.85	
			For Class 54 Rating, Add	164.22	
			For Class 55 Rating, Add	365.00	
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,887.75	401.18
			For Class 52 Rating, Deduct	-250.79	
			For Class 54 Rating, Add	170.99	
			For Class 55 Rating, Add	380.06	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,981.32	403.34
			For Class 52 Rating, Deduct	-260.72	
			For Class 54 Rating, Add	177.77	
			For Class 55 Rating, Add	395.11	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,074.89	405.50
			For Class 52 Rating, Deduct	-270.66	
			For Class 54 Rating, Add	184.54	
			For Class 55 Rating, Add	410.17	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,168.46	407.65
			For Class 52 Rating, Deduct	-280.59	
			For Class 54 Rating, Add	191.31	
			For Class 55 Rating, Add	425.22	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,262.03	409.81
			For Class 52 Rating, Deduct	-290.52	
			For Class 54 Rating, Add	198.08	
			For Class 55 Rating, Add	440.27	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,355.60	411.98
			For Class 52 Rating, Deduct	-300.46	
			For Class 54 Rating, Add	204.86	
			For Class 55 Rating, Add	455.33	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,449.17	414.12
			For Class 52 Rating, Deduct	-310.39	
			For Class 54 Rating, Add	211.63	
			For Class 55 Rating, Add	470.38	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,542.75	416.28
			For Class 52 Rating, Deduct	-320.32	
			For Class 54 Rating, Add	218.40	
			For Class 55 Rating, Add	485.43	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,636.32	418.44
			For Class 52 Rating, Deduct	-330.26	
			For Class 54 Rating, Add	225.17	
			For Class 55 Rating, Add	500.49	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,729.88	420.59
			For Class 52 Rating, Deduct	-340.19	
			For Class 54 Rating, Add	231.95	
			For Class 55 Rating, Add	515.54	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,823.46	422.75
			For Class 52 Rating, Deduct	-350.12	
			For Class 54 Rating, Add	238.72	
			For Class 55 Rating, Add	530.59	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,917.03	424.91
			For Class 52 Rating, Deduct	-360.06	
			For Class 54 Rating, Add	245.49	
			For Class 55 Rating, Add	545.65	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,010.60	427.07
			For Class 52 Rating, Deduct	-369.99	
			For Class 54 Rating, Add	252.26	
			For Class 55 Rating, Add	560.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,104.17	429.22
For Class 52 Rating, Deduct	-379.92	
For Class 54 Rating, Add	259.04	
For Class 55 Rating, Add	575.75	
40 05 19 00-1262 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,197.74	431.38
For Class 52 Rating, Deduct	-389.86	
For Class 54 Rating, Add	265.81	
For Class 55 Rating, Add	590.81	
40 05 19 00-1263 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.31	433.53
For Class 52 Rating, Deduct	-399.79	
For Class 54 Rating, Add	272.58	
For Class 55 Rating, Add	605.86	
40 05 19 00-1264 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,384.88	435.69
For Class 52 Rating, Deduct	-409.72	
For Class 54 Rating, Add	279.36	
For Class 55 Rating, Add	620.91	
40 05 19 00-1265 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,478.46	437.85
For Class 52 Rating, Deduct	-419.66	
For Class 54 Rating, Add	286.13	
For Class 55 Rating, Add	635.97	
40 05 19 00-1266 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,572.03	440.00
For Class 52 Rating, Deduct	-429.59	
For Class 54 Rating, Add	292.90	
For Class 55 Rating, Add	651.02	
40 05 19 00-1267 EA 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.59	442.17
For Class 52 Rating, Deduct	-439.52	
For Class 54 Rating, Add	299.67	
For Class 55 Rating, Add	666.07	
<b>40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1269 EA 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,401.63	414.12
For Class 52 Rating, Deduct	-85.16	
For Class 54 Rating, Add	58.06	
For Class 55 Rating, Add	129.05	
40 05 19 00-1270 EA 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,510.42	416.28
For Class 52 Rating, Deduct	-96.77	
For Class 54 Rating, Add	65.98	
For Class 55 Rating, Add	146.64	
40 05 19 00-1271 EA 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,619.22	418.44
For Class 52 Rating, Deduct	-108.37	
For Class 54 Rating, Add	73.89	
For Class 55 Rating, Add	164.24	
40 05 19 00-1272 EA 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,728.00	420.59
For Class 52 Rating, Deduct	-119.98	
For Class 54 Rating, Add	81.81	
For Class 55 Rating, Add	181.83	
40 05 19 00-1273 EA 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,836.79	422.75
For Class 52 Rating, Deduct	-131.59	
For Class 54 Rating, Add	89.72	
For Class 55 Rating, Add	199.42	
40 05 19 00-1274 EA 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,945.58	424.91
For Class 52 Rating, Deduct	-143.20	
For Class 54 Rating, Add	97.63	
For Class 55 Rating, Add	217.01	
40 05 19 00-1275 EA 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.38	427.07
For Class 52 Rating, Deduct	-154.80	
For Class 54 Rating, Add	105.55	
For Class 55 Rating, Add	234.60	
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,163.17	429.22
For Class 52 Rating, Deduct	-166.41	
For Class 54 Rating, Add	113.46	
For Class 55 Rating, Add	252.19	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,271.95	431.38
For Class 52 Rating, Deduct	-178.02	
For Class 54 Rating, Add	121.38	
For Class 55 Rating, Add	269.78	



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,380.74	433.53
			<i>For Class 52 Rating, Deduct</i>	-189.63	
			<i>For Class 54 Rating, Add</i>	129.29	
			<i>For Class 55 Rating, Add</i>	287.37	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,489.54	435.69
			<i>For Class 52 Rating, Deduct</i>	-201.23	
			<i>For Class 54 Rating, Add</i>	137.21	
			<i>For Class 55 Rating, Add</i>	304.96	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,598.33	437.85
			<i>For Class 52 Rating, Deduct</i>	-212.84	
			<i>For Class 54 Rating, Add</i>	145.12	
			<i>For Class 55 Rating, Add</i>	322.55	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,707.12	440.00
			<i>For Class 52 Rating, Deduct</i>	-224.45	
			<i>For Class 54 Rating, Add</i>	153.03	
			<i>For Class 55 Rating, Add</i>	340.14	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,815.90	442.17
			<i>For Class 52 Rating, Deduct</i>	-236.06	
			<i>For Class 54 Rating, Add</i>	160.95	
			<i>For Class 55 Rating, Add</i>	357.73	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,924.70	444.32
			<i>For Class 52 Rating, Deduct</i>	-247.66	
			<i>For Class 54 Rating, Add</i>	168.86	
			<i>For Class 55 Rating, Add</i>	375.32	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,033.50	446.48
			<i>For Class 52 Rating, Deduct</i>	-259.27	
			<i>For Class 54 Rating, Add</i>	176.78	
			<i>For Class 55 Rating, Add</i>	392.91	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,142.28	448.63
			<i>For Class 52 Rating, Deduct</i>	-270.88	
			<i>For Class 54 Rating, Add</i>	184.69	
			<i>For Class 55 Rating, Add</i>	410.50	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,251.07	450.79
			<i>For Class 52 Rating, Deduct</i>	-282.49	
			<i>For Class 54 Rating, Add</i>	192.60	
			<i>For Class 55 Rating, Add</i>	428.09	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,359.86	452.95
			<i>For Class 52 Rating, Deduct</i>	-294.09	
			<i>For Class 54 Rating, Add</i>	200.52	
			<i>For Class 55 Rating, Add</i>	445.69	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,468.65	455.10
			<i>For Class 52 Rating, Deduct</i>	-305.70	
			<i>For Class 54 Rating, Add</i>	208.43	
			<i>For Class 55 Rating, Add</i>	463.28	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,577.44	457.27
			<i>For Class 52 Rating, Deduct</i>	-317.31	
			<i>For Class 54 Rating, Add</i>	216.35	
			<i>For Class 55 Rating, Add</i>	480.87	
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,686.23	459.42
			<i>For Class 52 Rating, Deduct</i>	-328.92	
			<i>For Class 54 Rating, Add</i>	224.26	
			<i>For Class 55 Rating, Add</i>	498.46	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,795.03	461.57
			<i>For Class 52 Rating, Deduct</i>	-340.52	
			<i>For Class 54 Rating, Add</i>	232.18	
			<i>For Class 55 Rating, Add</i>	516.05	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,903.81	463.73
			<i>For Class 52 Rating, Deduct</i>	-352.13	
			<i>For Class 54 Rating, Add</i>	240.09	
			<i>For Class 55 Rating, Add</i>	533.64	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,012.60	465.90
			<i>For Class 52 Rating, Deduct</i>	-363.74	
			<i>For Class 54 Rating, Add</i>	248.00	
			<i>For Class 55 Rating, Add</i>	551.23	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,121.39	468.04
			<i>For Class 52 Rating, Deduct</i>	-375.35	
			<i>For Class 54 Rating, Add</i>	255.92	
			<i>For Class 55 Rating, Add</i>	568.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295 EA 16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,230.19	470.20
For Class 52 Rating, Deduct	-386.95	
For Class 54 Rating, Add	263.83	
For Class 55 Rating, Add	586.41	
40 05 19 00-1296 EA 16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,338.98	472.37
For Class 52 Rating, Deduct	-398.56	
For Class 54 Rating, Add	271.75	
For Class 55 Rating, Add	604.00	
40 05 19 00-1297 EA 16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,447.76	474.51
For Class 52 Rating, Deduct	-410.17	
For Class 54 Rating, Add	279.66	
For Class 55 Rating, Add	621.59	
40 05 19 00-1298 EA 16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,556.55	476.67
For Class 52 Rating, Deduct	-421.78	
For Class 54 Rating, Add	287.57	
For Class 55 Rating, Add	639.18	
40 05 19 00-1299 EA 16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.35	478.84
For Class 52 Rating, Deduct	-433.38	
For Class 54 Rating, Add	295.49	
For Class 55 Rating, Add	656.77	
40 05 19 00-1300 EA 16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,774.14	480.99
For Class 52 Rating, Deduct	-444.99	
For Class 54 Rating, Add	303.40	
For Class 55 Rating, Add	674.36	
40 05 19 00-1301 EA 16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,882.93	483.14
For Class 52 Rating, Deduct	-456.60	
For Class 54 Rating, Add	311.32	
For Class 55 Rating, Add	691.95	
40 05 19 00-1302 EA 16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,991.71	485.30
For Class 52 Rating, Deduct	-468.21	
For Class 54 Rating, Add	319.23	
For Class 55 Rating, Add	709.54	
40 05 19 00-1303 EA 16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,100.52	487.46
For Class 52 Rating, Deduct	-479.81	
For Class 54 Rating, Add	327.15	
For Class 55 Rating, Add	727.14	
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,209.30	489.61
For Class 52 Rating, Deduct	-491.42	
For Class 54 Rating, Add	335.06	
For Class 55 Rating, Add	744.73	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,318.09	491.77
For Class 52 Rating, Deduct	-503.03	
For Class 54 Rating, Add	342.97	
For Class 55 Rating, Add	762.32	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,426.88	493.93
For Class 52 Rating, Deduct	-514.64	
For Class 54 Rating, Add	350.89	
For Class 55 Rating, Add	779.91	
<b>40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,615.30	466.75
For Class 52 Rating, Deduct	-99.89	
For Class 54 Rating, Add	68.11	
For Class 55 Rating, Add	151.38	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.33	468.91
For Class 52 Rating, Deduct	-113.28	
For Class 54 Rating, Add	77.24	
For Class 55 Rating, Add	171.68	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,865.36	471.06
For Class 52 Rating, Deduct	-126.68	
For Class 54 Rating, Add	86.37	
For Class 55 Rating, Add	191.98	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,990.38	473.23
For Class 52 Rating, Deduct	-140.07	
For Class 54 Rating, Add	95.50	
For Class 55 Rating, Add	212.27	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,115.40	475.38
			For Class 52 Rating, Deduct	-153.46	
			For Class 54 Rating, Add	104.63	
			For Class 55 Rating, Add	232.57	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,240.43	477.53
			For Class 52 Rating, Deduct	-166.86	
			For Class 54 Rating, Add	113.77	
			For Class 55 Rating, Add	252.87	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,365.45	479.70
			For Class 52 Rating, Deduct	-180.25	
			For Class 54 Rating, Add	122.90	
			For Class 55 Rating, Add	273.16	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,490.48	481.85
			For Class 52 Rating, Deduct	-193.64	
			For Class 54 Rating, Add	132.03	
			For Class 55 Rating, Add	293.46	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,615.51	484.01
			For Class 52 Rating, Deduct	-207.04	
			For Class 54 Rating, Add	141.16	
			For Class 55 Rating, Add	313.76	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,740.52	486.16
			For Class 52 Rating, Deduct	-220.43	
			For Class 54 Rating, Add	150.29	
			For Class 55 Rating, Add	334.05	
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,865.55	488.32
			For Class 52 Rating, Deduct	-233.82	
			For Class 54 Rating, Add	159.43	
			For Class 55 Rating, Add	354.35	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,990.58	490.48
			For Class 52 Rating, Deduct	-247.22	
			For Class 54 Rating, Add	168.56	
			For Class 55 Rating, Add	374.65	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,115.60	492.63
			For Class 52 Rating, Deduct	-260.61	
			For Class 54 Rating, Add	177.69	
			For Class 55 Rating, Add	394.94	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,240.63	494.79
			For Class 52 Rating, Deduct	-274.00	
			For Class 54 Rating, Add	186.82	
			For Class 55 Rating, Add	415.24	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,365.65	496.95
			For Class 52 Rating, Deduct	-287.40	
			For Class 54 Rating, Add	195.95	
			For Class 55 Rating, Add	435.54	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,490.67	499.11
			For Class 52 Rating, Deduct	-300.79	
			For Class 54 Rating, Add	205.08	
			For Class 55 Rating, Add	455.83	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,615.70	501.26
			For Class 52 Rating, Deduct	-314.18	
			For Class 54 Rating, Add	214.22	
			For Class 55 Rating, Add	476.13	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,740.73	503.42
			For Class 52 Rating, Deduct	-327.58	
			For Class 54 Rating, Add	223.35	
			For Class 55 Rating, Add	496.43	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,865.76	505.58
			For Class 52 Rating, Deduct	-340.97	
			For Class 54 Rating, Add	232.48	
			For Class 55 Rating, Add	516.72	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,990.77	507.72
			For Class 52 Rating, Deduct	-354.36	
			For Class 54 Rating, Add	241.61	
			For Class 55 Rating, Add	537.02	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,115.80	509.89
			For Class 52 Rating, Deduct	-367.76	
			For Class 54 Rating, Add	250.74	
			For Class 55 Rating, Add	557.32	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329 EA 18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,240.84	512.05
<i>For Class 52 Rating, Deduct</i>	-381.15	
<i>For Class 54 Rating, Add</i>	259.88	
<i>For Class 55 Rating, Add</i>	577.62	
40 05 19 00-1330 EA 18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,365.85	514.20
<i>For Class 52 Rating, Deduct</i>	-394.54	
<i>For Class 54 Rating, Add</i>	269.01	
<i>For Class 55 Rating, Add</i>	597.91	
40 05 19 00-1331 EA 18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,490.88	516.36
<i>For Class 52 Rating, Deduct</i>	-407.94	
<i>For Class 54 Rating, Add</i>	278.14	
<i>For Class 55 Rating, Add</i>	618.21	
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,615.90	518.52
<i>For Class 52 Rating, Deduct</i>	-421.33	
<i>For Class 54 Rating, Add</i>	287.27	
<i>For Class 55 Rating, Add</i>	638.51	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,740.92	520.67
<i>For Class 52 Rating, Deduct</i>	-434.72	
<i>For Class 54 Rating, Add</i>	296.40	
<i>For Class 55 Rating, Add</i>	658.80	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,865.95	522.83
<i>For Class 52 Rating, Deduct</i>	-448.12	
<i>For Class 54 Rating, Add</i>	305.53	
<i>For Class 55 Rating, Add</i>	679.10	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,990.98	524.99
<i>For Class 52 Rating, Deduct</i>	-461.51	
<i>For Class 54 Rating, Add</i>	314.67	
<i>For Class 55 Rating, Add</i>	699.40	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,116.00	527.15
<i>For Class 52 Rating, Deduct</i>	-474.90	
<i>For Class 54 Rating, Add</i>	323.80	
<i>For Class 55 Rating, Add</i>	719.69	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,241.02	529.30
<i>For Class 52 Rating, Deduct</i>	-488.30	
<i>For Class 54 Rating, Add</i>	332.93	
<i>For Class 55 Rating, Add</i>	739.99	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,366.05	531.46
<i>For Class 52 Rating, Deduct</i>	-501.69	
<i>For Class 54 Rating, Add</i>	342.06	
<i>For Class 55 Rating, Add</i>	760.29	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,491.07	533.62
<i>For Class 52 Rating, Deduct</i>	-515.08	
<i>For Class 54 Rating, Add</i>	351.19	
<i>For Class 55 Rating, Add</i>	780.58	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,616.10	535.77
<i>For Class 52 Rating, Deduct</i>	-528.48	
<i>For Class 54 Rating, Add</i>	360.32	
<i>For Class 55 Rating, Add</i>	800.88	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,741.13	537.93
<i>For Class 52 Rating, Deduct</i>	-541.87	
<i>For Class 54 Rating, Add</i>	369.46	
<i>For Class 55 Rating, Add</i>	821.18	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,866.14	540.09
<i>For Class 52 Rating, Deduct</i>	-555.26	
<i>For Class 54 Rating, Add</i>	378.59	
<i>For Class 55 Rating, Add</i>	841.47	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,991.17	542.24
<i>For Class 52 Rating, Deduct</i>	-568.65	
<i>For Class 54 Rating, Add</i>	387.72	
<i>For Class 55 Rating, Add</i>	861.77	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,116.20	544.40
<i>For Class 52 Rating, Deduct</i>	-582.05	
<i>For Class 54 Rating, Add</i>	396.85	
<i>For Class 55 Rating, Add</i>	882.07	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,241.22	546.56
<i>For Class 52 Rating, Deduct</i>	-595.44	
<i>For Class 54 Rating, Add</i>	405.98	
<i>For Class 55 Rating, Add</i>	902.36	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346		<b>20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,876.63	532.76
		For Class 52 Rating, Deduct	-117.64	
		For Class 54 Rating, Add	80.21	
		For Class 55 Rating, Add	178.27	
40 05 19 00-1348	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,019.92	534.91
		For Class 52 Rating, Deduct	-133.04	
		For Class 54 Rating, Add	90.71	
		For Class 55 Rating, Add	201.62	
40 05 19 00-1349	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,163.20	537.06
		For Class 52 Rating, Deduct	-148.44	
		For Class 54 Rating, Add	101.21	
		For Class 55 Rating, Add	224.96	
40 05 19 00-1350	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,306.50	539.23
		For Class 52 Rating, Deduct	-163.84	
		For Class 54 Rating, Add	111.71	
		For Class 55 Rating, Add	248.30	
40 05 19 00-1351	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,449.79	541.38
		For Class 52 Rating, Deduct	-179.25	
		For Class 54 Rating, Add	122.21	
		For Class 55 Rating, Add	271.64	
40 05 19 00-1352	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,593.07	543.53
		For Class 52 Rating, Deduct	-194.65	
		For Class 54 Rating, Add	132.71	
		For Class 55 Rating, Add	294.98	
40 05 19 00-1353	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,736.36	545.70
		For Class 52 Rating, Deduct	-210.05	
		For Class 54 Rating, Add	143.22	
		For Class 55 Rating, Add	318.32	
40 05 19 00-1354	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,879.64	547.85
		For Class 52 Rating, Deduct	-225.45	
		For Class 54 Rating, Add	153.72	
		For Class 55 Rating, Add	341.66	
40 05 19 00-1355	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,022.94	550.01
		For Class 52 Rating, Deduct	-240.85	
		For Class 54 Rating, Add	164.22	
		For Class 55 Rating, Add	365.00	
40 05 19 00-1356	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,166.23	552.16
		For Class 52 Rating, Deduct	-256.26	
		For Class 54 Rating, Add	174.72	
		For Class 55 Rating, Add	388.35	
40 05 19 00-1357	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,309.51	554.32
		For Class 52 Rating, Deduct	-271.66	
		For Class 54 Rating, Add	185.22	
		For Class 55 Rating, Add	411.69	
40 05 19 00-1358	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,452.80	556.48
		For Class 52 Rating, Deduct	-287.06	
		For Class 54 Rating, Add	195.72	
		For Class 55 Rating, Add	435.03	
40 05 19 00-1359	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,596.08	558.63
		For Class 52 Rating, Deduct	-302.46	
		For Class 54 Rating, Add	206.23	
		For Class 55 Rating, Add	458.37	
40 05 19 00-1360	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,739.38	560.80
		For Class 52 Rating, Deduct	-317.87	
		For Class 54 Rating, Add	216.73	
		For Class 55 Rating, Add	481.71	
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,882.67	562.95
		For Class 52 Rating, Deduct	-333.27	
		For Class 54 Rating, Add	227.23	
		For Class 55 Rating, Add	505.05	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,025.96	565.11
		For Class 52 Rating, Deduct	-348.67	
		For Class 54 Rating, Add	237.73	
		For Class 55 Rating, Add	528.40	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	<b>40</b>
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,169.25	567.26
<i>For Class 52 Rating, Deduct</i>	-364.07	
<i>For Class 54 Rating, Add</i>	248.23	
<i>For Class 55 Rating, Add</i>	551.74	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,312.54	569.42
<i>For Class 52 Rating, Deduct</i>	-379.48	
<i>For Class 54 Rating, Add</i>	258.73	
<i>For Class 55 Rating, Add</i>	575.08	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,455.83	571.58
<i>For Class 52 Rating, Deduct</i>	-394.88	
<i>For Class 54 Rating, Add</i>	269.24	
<i>For Class 55 Rating, Add</i>	598.42	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,599.11	573.74
<i>For Class 52 Rating, Deduct</i>	-410.28	
<i>For Class 54 Rating, Add</i>	279.74	
<i>For Class 55 Rating, Add</i>	621.76	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,742.40	575.89
<i>For Class 52 Rating, Deduct</i>	-425.68	
<i>For Class 54 Rating, Add</i>	290.24	
<i>For Class 55 Rating, Add</i>	645.10	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,885.69	578.05
<i>For Class 52 Rating, Deduct</i>	-441.08	
<i>For Class 54 Rating, Add</i>	300.74	
<i>For Class 55 Rating, Add</i>	668.44	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,028.98	580.21
<i>For Class 52 Rating, Deduct</i>	-456.49	
<i>For Class 54 Rating, Add</i>	311.24	
<i>For Class 55 Rating, Add</i>	691.79	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,172.27	582.35
<i>For Class 52 Rating, Deduct</i>	-471.89	
<i>For Class 54 Rating, Add</i>	321.74	
<i>For Class 55 Rating, Add</i>	715.13	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,315.55	584.52
<i>For Class 52 Rating, Deduct</i>	-487.29	
<i>For Class 54 Rating, Add</i>	332.24	
<i>For Class 55 Rating, Add</i>	738.47	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,458.84	586.68
<i>For Class 52 Rating, Deduct</i>	-502.69	
<i>For Class 54 Rating, Add</i>	342.75	
<i>For Class 55 Rating, Add</i>	761.81	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,602.13	588.83
<i>For Class 52 Rating, Deduct</i>	-518.10	
<i>For Class 54 Rating, Add</i>	353.25	
<i>For Class 55 Rating, Add</i>	785.15	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,745.42	590.99
<i>For Class 52 Rating, Deduct</i>	-533.50	
<i>For Class 54 Rating, Add</i>	363.75	
<i>For Class 55 Rating, Add</i>	808.49	
40 05 19 00-1375 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,888.71	593.15
<i>For Class 52 Rating, Deduct</i>	-548.90	
<i>For Class 54 Rating, Add</i>	374.25	
<i>For Class 55 Rating, Add</i>	831.83	
40 05 19 00-1376 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,031.99	595.30
<i>For Class 52 Rating, Deduct</i>	-564.30	
<i>For Class 54 Rating, Add</i>	384.75	
<i>For Class 55 Rating, Add</i>	855.17	
40 05 19 00-1377 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,175.28	597.45
<i>For Class 52 Rating, Deduct</i>	-579.70	
<i>For Class 54 Rating, Add</i>	395.25	
<i>For Class 55 Rating, Add</i>	878.52	
40 05 19 00-1378 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,318.57	599.62
<i>For Class 52 Rating, Deduct</i>	-595.11	
<i>For Class 54 Rating, Add</i>	405.75	
<i>For Class 55 Rating, Add</i>	901.86	
40 05 19 00-1379 EA 20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,461.86	601.77
<i>For Class 52 Rating, Deduct</i>	-610.51	
<i>For Class 54 Rating, Add</i>	416.26	
<i>For Class 55 Rating, Add</i>	925.20	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,605.15	603.93
			<i>For Class 52 Rating, Deduct</i> .....	-625.91	
			<i>For Class 54 Rating, Add</i> .....	426.76	
			<i>For Class 55 Rating, Add</i> .....	948.54	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,748.43	606.09
			<i>For Class 52 Rating, Deduct</i> .....	-641.31	
			<i>For Class 54 Rating, Add</i> .....	437.26	
			<i>For Class 55 Rating, Add</i> .....	971.88	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,891.72	608.24
			<i>For Class 52 Rating, Deduct</i> .....	-656.72	
			<i>For Class 54 Rating, Add</i> .....	447.76	
			<i>For Class 55 Rating, Add</i> .....	995.22	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,035.01	610.40
			<i>For Class 52 Rating, Deduct</i> .....	-672.12	
			<i>For Class 54 Rating, Add</i> .....	458.26	
			<i>For Class 55 Rating, Add</i> .....	1,018.56	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,178.30	612.56
			<i>For Class 52 Rating, Deduct</i> .....	-687.52	
			<i>For Class 54 Rating, Add</i> .....	468.76	
			<i>For Class 55 Rating, Add</i> .....	1,041.91	
<b>40 05 19 00-1385</b>			<b>24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small></b>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,289.53	629.81
			<i>For Class 52 Rating, Deduct</i> .....	-146.88	
			<i>For Class 54 Rating, Add</i> .....	100.15	
			<i>For Class 55 Rating, Add</i> .....	222.59	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,466.30	631.97
			<i>For Class 52 Rating, Deduct</i> .....	-165.96	
			<i>For Class 54 Rating, Add</i> .....	113.16	
			<i>For Class 55 Rating, Add</i> .....	251.51	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,643.07	634.13
			<i>For Class 52 Rating, Deduct</i> .....	-185.05	
			<i>For Class 54 Rating, Add</i> .....	126.17	
			<i>For Class 55 Rating, Add</i> .....	280.43	
40 05 19 00-1389	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,819.85	636.28
			<i>For Class 52 Rating, Deduct</i> .....	-204.14	
			<i>For Class 54 Rating, Add</i> .....	139.18	
			<i>For Class 55 Rating, Add</i> .....	309.36	
40 05 19 00-1390	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,996.61	638.44
			<i>For Class 52 Rating, Deduct</i> .....	-223.22	
			<i>For Class 54 Rating, Add</i> .....	152.20	
			<i>For Class 55 Rating, Add</i> .....	338.28	
40 05 19 00-1391	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,173.38	640.60
			<i>For Class 52 Rating, Deduct</i> .....	-242.31	
			<i>For Class 54 Rating, Add</i> .....	165.21	
			<i>For Class 55 Rating, Add</i> .....	367.20	
40 05 19 00-1392	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,350.16	642.76
			<i>For Class 52 Rating, Deduct</i> .....	-261.39	
			<i>For Class 54 Rating, Add</i> .....	178.22	
			<i>For Class 55 Rating, Add</i> .....	396.13	
40 05 19 00-1393	EA		24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,526.93	644.91
			<i>For Class 52 Rating, Deduct</i> .....	-280.48	
			<i>For Class 54 Rating, Add</i> .....	191.23	
			<i>For Class 55 Rating, Add</i> .....	425.05	
40 05 19 00-1394	EA		24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,703.70	647.07
			<i>For Class 52 Rating, Deduct</i> .....	-299.56	
			<i>For Class 54 Rating, Add</i> .....	204.25	
			<i>For Class 55 Rating, Add</i> .....	453.97	
40 05 19 00-1395	EA		24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,880.47	649.22
			<i>For Class 52 Rating, Deduct</i> .....	-318.65	
			<i>For Class 54 Rating, Add</i> .....	217.26	
			<i>For Class 55 Rating, Add</i> .....	482.90	
40 05 19 00-1396	EA		24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,057.25	651.38
			<i>For Class 52 Rating, Deduct</i> .....	-337.73	
			<i>For Class 54 Rating, Add</i> .....	230.27	
			<i>For Class 55 Rating, Add</i> .....	511.82	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	<b>40</b>
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,234.01	653.54
<i>For Class 52 Rating, Deduct</i>	-356.82	
<i>For Class 54 Rating, Add</i>	243.29	
<i>For Class 55 Rating, Add</i>	540.74	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,410.79	655.69
<i>For Class 52 Rating, Deduct</i>	-375.90	
<i>For Class 54 Rating, Add</i>	256.30	
<i>For Class 55 Rating, Add</i>	569.67	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,587.56	657.86
<i>For Class 52 Rating, Deduct</i>	-394.99	
<i>For Class 54 Rating, Add</i>	269.31	
<i>For Class 55 Rating, Add</i>	598.59	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,764.32	660.01
<i>For Class 52 Rating, Deduct</i>	-414.07	
<i>For Class 54 Rating, Add</i>	282.32	
<i>For Class 55 Rating, Add</i>	627.51	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,941.11	662.16
<i>For Class 52 Rating, Deduct</i>	-433.16	
<i>For Class 54 Rating, Add</i>	295.34	
<i>For Class 55 Rating, Add</i>	656.43	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,117.87	664.33
<i>For Class 52 Rating, Deduct</i>	-452.25	
<i>For Class 54 Rating, Add</i>	308.35	
<i>For Class 55 Rating, Add</i>	685.36	
40 05 19 00-1403 EA 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,294.64	666.48
<i>For Class 52 Rating, Deduct</i>	-471.33	
<i>For Class 54 Rating, Add</i>	321.36	
<i>For Class 55 Rating, Add</i>	714.28	
40 05 19 00-1404 EA 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,471.41	668.63
<i>For Class 52 Rating, Deduct</i>	-490.42	
<i>For Class 54 Rating, Add</i>	334.37	
<i>For Class 55 Rating, Add</i>	743.20	
40 05 19 00-1405 EA 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,648.18	670.79
<i>For Class 52 Rating, Deduct</i>	-509.50	
<i>For Class 54 Rating, Add</i>	347.39	
<i>For Class 55 Rating, Add</i>	772.13	
40 05 19 00-1406 EA 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,824.97	672.96
<i>For Class 52 Rating, Deduct</i>	-528.59	
<i>For Class 54 Rating, Add</i>	360.40	
<i>For Class 55 Rating, Add</i>	801.05	
40 05 19 00-1407 EA 24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,001.73	675.11
<i>For Class 52 Rating, Deduct</i>	-547.67	
<i>For Class 54 Rating, Add</i>	373.41	
<i>For Class 55 Rating, Add</i>	829.97	
40 05 19 00-1408 EA 24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,178.50	677.26
<i>For Class 52 Rating, Deduct</i>	-566.76	
<i>For Class 54 Rating, Add</i>	386.43	
<i>For Class 55 Rating, Add</i>	858.90	
40 05 19 00-1409 EA 24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,355.27	679.43
<i>For Class 52 Rating, Deduct</i>	-585.84	
<i>For Class 54 Rating, Add</i>	399.44	
<i>For Class 55 Rating, Add</i>	887.82	
40 05 19 00-1410 EA 24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,532.04	681.58
<i>For Class 52 Rating, Deduct</i>	-604.93	
<i>For Class 54 Rating, Add</i>	412.45	
<i>For Class 55 Rating, Add</i>	916.74	
40 05 19 00-1411 EA 24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,708.82	683.73
<i>For Class 52 Rating, Deduct</i>	-624.01	
<i>For Class 54 Rating, Add</i>	425.46	
<i>For Class 55 Rating, Add</i>	945.66	
40 05 19 00-1412 EA 24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,885.59	685.89
<i>For Class 52 Rating, Deduct</i>	-643.10	
<i>For Class 54 Rating, Add</i>	438.48	
<i>For Class 55 Rating, Add</i>	974.59	
40 05 19 00-1413 EA 24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,062.36	688.06
<i>For Class 52 Rating, Deduct</i>	-662.18	
<i>For Class 54 Rating, Add</i>	451.49	
<i>For Class 55 Rating, Add</i>	1,003.51	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,239.12	690.20
			<i>For Class 52 Rating, Deduct</i> .....	-681.27	
			<i>For Class 54 Rating, Add</i> .....	464.50	
			<i>For Class 55 Rating, Add</i> .....	1,032.43	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,471.46	729.02
			<i>For Class 52 Rating, Deduct</i> .....	-700.36	
			<i>For Class 54 Rating, Add</i> .....	477.52	
			<i>For Class 55 Rating, Add</i> .....	1,061.36	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,648.23	731.19
			<i>For Class 52 Rating, Deduct</i> .....	-719.44	
			<i>For Class 54 Rating, Add</i> .....	490.53	
			<i>For Class 55 Rating, Add</i> .....	1,090.28	
40 05 19 00-1417	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,825.00	733.35
			<i>For Class 52 Rating, Deduct</i> .....	-738.53	
			<i>For Class 54 Rating, Add</i> .....	503.54	
			<i>For Class 55 Rating, Add</i> .....	1,119.20	
40 05 19 00-1418	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,001.78	735.50
			<i>For Class 52 Rating, Deduct</i> .....	-757.61	
			<i>For Class 54 Rating, Add</i> .....	516.55	
			<i>For Class 55 Rating, Add</i> .....	1,148.13	
40 05 19 00-1419	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,178.54	737.65
			<i>For Class 52 Rating, Deduct</i> .....	-776.70	
			<i>For Class 54 Rating, Add</i> .....	529.57	
			<i>For Class 55 Rating, Add</i> .....	1,177.05	
40 05 19 00-1420	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,355.31	739.82
			<i>For Class 52 Rating, Deduct</i> .....	-795.78	
			<i>For Class 54 Rating, Add</i> .....	542.58	
			<i>For Class 55 Rating, Add</i> .....	1,205.97	
40 05 19 00-1421	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,532.09	741.97
			<i>For Class 52 Rating, Deduct</i> .....	-814.87	
			<i>For Class 54 Rating, Add</i> .....	555.59	
			<i>For Class 55 Rating, Add</i> .....	1,234.90	
40 05 19 00-1422	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,708.86	744.12
			<i>For Class 52 Rating, Deduct</i> .....	-833.95	
			<i>For Class 54 Rating, Add</i> .....	568.60	
			<i>For Class 55 Rating, Add</i> .....	1,263.82	
40 05 19 00-1423	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,885.63	746.29
			<i>For Class 52 Rating, Deduct</i> .....	-853.04	
			<i>For Class 54 Rating, Add</i> .....	581.62	
			<i>For Class 55 Rating, Add</i> .....	1,292.74	
40 05 19 00-1424			<b>30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,456.88	888.65
			<i>For Class 52 Rating, Deduct</i> .....	-232.15	
			<i>For Class 54 Rating, Add</i> .....	158.28	
			<i>For Class 55 Rating, Add</i> .....	351.81	
40 05 19 00-1426	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,710.76	890.79
			<i>For Class 52 Rating, Deduct</i> .....	-259.72	
			<i>For Class 54 Rating, Add</i> .....	177.08	
			<i>For Class 55 Rating, Add</i> .....	393.59	
40 05 19 00-1427	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,964.64	892.95
			<i>For Class 52 Rating, Deduct</i> .....	-287.28	
			<i>For Class 54 Rating, Add</i> .....	195.88	
			<i>For Class 55 Rating, Add</i> .....	435.37	
40 05 19 00-1428	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,218.53	895.12
			<i>For Class 52 Rating, Deduct</i> .....	-314.85	
			<i>For Class 54 Rating, Add</i> .....	214.67	
			<i>For Class 55 Rating, Add</i> .....	477.15	
40 05 19 00-1429	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,472.42	897.27
			<i>For Class 52 Rating, Deduct</i> .....	-342.42	
			<i>For Class 54 Rating, Add</i> .....	233.47	
			<i>For Class 55 Rating, Add</i> .....	518.92	
40 05 19 00-1430	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,726.30	899.42
			<i>For Class 52 Rating, Deduct</i> .....	-369.99	
			<i>For Class 54 Rating, Add</i> .....	252.26	
			<i>For Class 55 Rating, Add</i> .....	560.70	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	<b>40</b>
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431 EA 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,980.18	901.58
<i>For Class 52 Rating, Deduct</i>	-397.56	
<i>For Class 54 Rating, Add</i>	271.06	
<i>For Class 55 Rating, Add</i>	602.48	
40 05 19 00-1432 EA 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,234.06	903.74
<i>For Class 52 Rating, Deduct</i>	-425.12	
<i>For Class 54 Rating, Add</i>	289.86	
<i>For Class 55 Rating, Add</i>	644.26	
40 05 19 00-1433 EA 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,487.95	905.89
<i>For Class 52 Rating, Deduct</i>	-452.69	
<i>For Class 54 Rating, Add</i>	308.65	
<i>For Class 55 Rating, Add</i>	686.03	
40 05 19 00-1434 EA 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,741.84	908.05
<i>For Class 52 Rating, Deduct</i>	-480.26	
<i>For Class 54 Rating, Add</i>	327.45	
<i>For Class 55 Rating, Add</i>	727.81	
40 05 19 00-1435 EA 30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,995.72	910.21
<i>For Class 52 Rating, Deduct</i>	-507.83	
<i>For Class 54 Rating, Add</i>	346.25	
<i>For Class 55 Rating, Add</i>	769.59	
40 05 19 00-1436 EA 30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,249.60	912.37
<i>For Class 52 Rating, Deduct</i>	-535.40	
<i>For Class 54 Rating, Add</i>	365.04	
<i>For Class 55 Rating, Add</i>	811.37	
40 05 19 00-1437 EA 30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,503.48	914.52
<i>For Class 52 Rating, Deduct</i>	-562.96	
<i>For Class 54 Rating, Add</i>	383.84	
<i>For Class 55 Rating, Add</i>	853.14	
40 05 19 00-1438 EA 30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,757.37	916.69
<i>For Class 52 Rating, Deduct</i>	-590.53	
<i>For Class 54 Rating, Add</i>	402.63	
<i>For Class 55 Rating, Add</i>	894.92	
40 05 19 00-1439 EA 30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,011.26	918.84
<i>For Class 52 Rating, Deduct</i>	-618.10	
<i>For Class 54 Rating, Add</i>	421.43	
<i>For Class 55 Rating, Add</i>	936.70	
40 05 19 00-1440 EA 30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,265.14	920.99
<i>For Class 52 Rating, Deduct</i>	-645.67	
<i>For Class 54 Rating, Add</i>	440.23	
<i>For Class 55 Rating, Add</i>	978.48	
40 05 19 00-1441 EA 30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,519.02	923.15
<i>For Class 52 Rating, Deduct</i>	-673.23	
<i>For Class 54 Rating, Add</i>	459.02	
<i>For Class 55 Rating, Add</i>	1,020.26	
40 05 19 00-1442 EA 30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,772.90	925.31
<i>For Class 52 Rating, Deduct</i>	-700.80	
<i>For Class 54 Rating, Add</i>	477.82	
<i>For Class 55 Rating, Add</i>	1,062.03	
40 05 19 00-1443 EA 30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,026.78	927.47
<i>For Class 52 Rating, Deduct</i>	-728.37	
<i>For Class 54 Rating, Add</i>	496.62	
<i>For Class 55 Rating, Add</i>	1,103.81	
40 05 19 00-1444 EA 30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,280.68	929.62
<i>For Class 52 Rating, Deduct</i>	-755.94	
<i>For Class 54 Rating, Add</i>	515.41	
<i>For Class 55 Rating, Add</i>	1,145.59	
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,534.56	931.78
<i>For Class 52 Rating, Deduct</i>	-783.50	
<i>For Class 54 Rating, Add</i>	534.21	
<i>For Class 55 Rating, Add</i>	1,187.37	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,788.44	933.94
<i>For Class 52 Rating, Deduct</i>	-811.07	
<i>For Class 54 Rating, Add</i>	553.00	
<i>For Class 55 Rating, Add</i>	1,229.14	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,042.32	936.09
<i>For Class 52 Rating, Deduct</i>	-838.64	
<i>For Class 54 Rating, Add</i>	571.80	
<i>For Class 55 Rating, Add</i>	1,270.92	



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,296.21	938.24
			<i>For Class 52 Rating, Deduct</i>	-866.21	
			<i>For Class 54 Rating, Add</i>	590.60	
			<i>For Class 55 Rating, Add</i>	1,312.70	
40 05 19 00-1449	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,550.10	940.41
			<i>For Class 52 Rating, Deduct</i>	-893.78	
			<i>For Class 54 Rating, Add</i>	609.39	
			<i>For Class 55 Rating, Add</i>	1,354.48	
40 05 19 00-1450	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,803.98	942.57
			<i>For Class 52 Rating, Deduct</i>	-921.34	
			<i>For Class 54 Rating, Add</i>	628.19	
			<i>For Class 55 Rating, Add</i>	1,396.25	
40 05 19 00-1451	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,057.86	944.71
			<i>For Class 52 Rating, Deduct</i>	-948.91	
			<i>For Class 54 Rating, Add</i>	646.99	
			<i>For Class 55 Rating, Add</i>	1,438.03	
40 05 19 00-1452	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,311.75	946.88
			<i>For Class 52 Rating, Deduct</i>	-976.48	
			<i>For Class 54 Rating, Add</i>	665.78	
			<i>For Class 55 Rating, Add</i>	1,479.81	
40 05 19 00-1453	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,565.63	949.04
			<i>For Class 52 Rating, Deduct</i>	-1,004.05	
			<i>For Class 54 Rating, Add</i>	684.58	
			<i>For Class 55 Rating, Add</i>	1,521.59	
40 05 19 00-1454	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,819.52	951.19
			<i>For Class 52 Rating, Deduct</i>	-1,031.62	
			<i>For Class 54 Rating, Add</i>	703.37	
			<i>For Class 55 Rating, Add</i>	1,563.37	
40 05 19 00-1455	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,073.40	953.34
			<i>For Class 52 Rating, Deduct</i>	-1,059.18	
			<i>For Class 54 Rating, Add</i>	722.17	
			<i>For Class 55 Rating, Add</i>	1,605.14	
40 05 19 00-1456	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,327.28	955.51
			<i>For Class 52 Rating, Deduct</i>	-1,086.75	
			<i>For Class 54 Rating, Add</i>	740.97	
			<i>For Class 55 Rating, Add</i>	1,646.92	
40 05 19 00-1457	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,581.17	957.66
			<i>For Class 52 Rating, Deduct</i>	-1,114.32	
			<i>For Class 54 Rating, Add</i>	759.76	
			<i>For Class 55 Rating, Add</i>	1,688.70	
40 05 19 00-1458	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,835.05	959.81
			<i>For Class 52 Rating, Deduct</i>	-1,141.89	
			<i>For Class 54 Rating, Add</i>	778.56	
			<i>For Class 55 Rating, Add</i>	1,730.48	
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,088.94	961.98
			<i>For Class 52 Rating, Deduct</i>	-1,169.45	
			<i>For Class 54 Rating, Add</i>	797.36	
			<i>For Class 55 Rating, Add</i>	1,772.25	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,342.82	964.13
			<i>For Class 52 Rating, Deduct</i>	-1,197.02	
			<i>For Class 54 Rating, Add</i>	816.15	
			<i>For Class 55 Rating, Add</i>	1,814.03	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,596.70	966.29
			<i>For Class 52 Rating, Deduct</i>	-1,224.59	
			<i>For Class 54 Rating, Add</i>	834.95	
			<i>For Class 55 Rating, Add</i>	1,855.81	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,850.59	968.44
			<i>For Class 52 Rating, Deduct</i>	-1,252.16	
			<i>For Class 54 Rating, Add</i>	853.74	
			<i>For Class 55 Rating, Add</i>	1,897.59	
40 05 19 00-1463			<b>36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,711.27	1,125.90
			<i>For Class 52 Rating, Deduct</i>	-330.59	
			<i>For Class 54 Rating, Add</i>	225.40	
			<i>For Class 55 Rating, Add</i>	500.99	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,055.46	1,128.06
For Class 52 Rating, Deduct	-368.09	
For Class 54 Rating, Add	250.97	
For Class 55 Rating, Add	557.82	
40 05 19 00-1466 EA 36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,399.64	1,130.21
For Class 52 Rating, Deduct	-405.59	
For Class 54 Rating, Add	276.54	
For Class 55 Rating, Add	614.66	
40 05 19 00-1467 EA 36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,743.83	1,132.37
For Class 52 Rating, Deduct	-443.09	
For Class 54 Rating, Add	302.11	
For Class 55 Rating, Add	671.49	
40 05 19 00-1468 EA 36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,088.02	1,134.53
For Class 52 Rating, Deduct	-480.59	
For Class 54 Rating, Add	327.68	
For Class 55 Rating, Add	728.32	
40 05 19 00-1469 EA 36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,432.21	1,136.68
For Class 52 Rating, Deduct	-518.10	
For Class 54 Rating, Add	353.25	
For Class 55 Rating, Add	785.15	
40 05 19 00-1470 EA 36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,776.39	1,138.83
For Class 52 Rating, Deduct	-555.60	
For Class 54 Rating, Add	378.82	
For Class 55 Rating, Add	841.98	
40 05 19 00-1471 EA 36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,120.58	1,141.00
For Class 52 Rating, Deduct	-593.10	
For Class 54 Rating, Add	404.39	
For Class 55 Rating, Add	898.81	
40 05 19 00-1472 EA 36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,464.78	1,143.16
For Class 52 Rating, Deduct	-630.60	
For Class 54 Rating, Add	429.95	
For Class 55 Rating, Add	955.64	
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,808.96	1,145.30
For Class 52 Rating, Deduct	-668.10	
For Class 54 Rating, Add	455.52	
For Class 55 Rating, Add	1,012.48	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,153.14	1,147.47
For Class 52 Rating, Deduct	-705.60	
For Class 54 Rating, Add	481.09	
For Class 55 Rating, Add	1,069.31	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,497.32	1,149.63
For Class 52 Rating, Deduct	-743.10	
For Class 54 Rating, Add	506.66	
For Class 55 Rating, Add	1,126.14	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,841.51	1,151.78
For Class 52 Rating, Deduct	-780.60	
For Class 54 Rating, Add	532.23	
For Class 55 Rating, Add	1,182.97	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,185.71	1,153.93
For Class 52 Rating, Deduct	-818.10	
For Class 54 Rating, Add	557.80	
For Class 55 Rating, Add	1,239.80	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,529.89	1,156.10
For Class 52 Rating, Deduct	-855.61	
For Class 54 Rating, Add	583.37	
For Class 55 Rating, Add	1,296.63	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,874.08	1,158.26
For Class 52 Rating, Deduct	-893.11	
For Class 54 Rating, Add	608.94	
For Class 55 Rating, Add	1,353.46	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,218.26	1,160.40
For Class 52 Rating, Deduct	-930.61	
For Class 54 Rating, Add	634.51	
For Class 55 Rating, Add	1,410.29	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,562.45	1,162.57
For Class 52 Rating, Deduct	-968.11	
For Class 54 Rating, Add	660.07	
For Class 55 Rating, Add	1,467.13	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA	36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,906.65	1,164.73
		<i>For Class 52 Rating, Deduct</i> .....	-1,005.61	
		<i>For Class 54 Rating, Add</i> .....	685.64	
		<i>For Class 55 Rating, Add</i> .....	1,523.96	
40 05 19 00-1483	EA	36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,250.83	1,166.88
		<i>For Class 52 Rating, Deduct</i> .....	-1,043.11	
		<i>For Class 54 Rating, Add</i> .....	711.21	
		<i>For Class 55 Rating, Add</i> .....	1,580.79	
40 05 19 00-1484	EA	36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,595.01	1,169.04
		<i>For Class 52 Rating, Deduct</i> .....	-1,080.61	
		<i>For Class 54 Rating, Add</i> .....	736.78	
		<i>For Class 55 Rating, Add</i> .....	1,637.62	
40 05 19 00-1485	EA	36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,939.19	1,171.20
		<i>For Class 52 Rating, Deduct</i> .....	-1,118.11	
		<i>For Class 54 Rating, Add</i> .....	762.35	
		<i>For Class 55 Rating, Add</i> .....	1,694.45	
40 05 19 00-1486	EA	36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,283.38	1,173.35
		<i>For Class 52 Rating, Deduct</i> .....	-1,155.61	
		<i>For Class 54 Rating, Add</i> .....	787.92	
		<i>For Class 55 Rating, Add</i> .....	1,751.28	
40 05 19 00-1487	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,627.58	1,175.50
		<i>For Class 52 Rating, Deduct</i> .....	-1,193.12	
		<i>For Class 54 Rating, Add</i> .....	813.49	
		<i>For Class 55 Rating, Add</i> .....	1,808.11	
40 05 19 00-1488	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,971.76	1,177.67
		<i>For Class 52 Rating, Deduct</i> .....	-1,230.62	
		<i>For Class 54 Rating, Add</i> .....	839.06	
		<i>For Class 55 Rating, Add</i> .....	1,864.94	
40 05 19 00-1489	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,315.95	1,179.82
		<i>For Class 52 Rating, Deduct</i> .....	-1,268.12	
		<i>For Class 54 Rating, Add</i> .....	864.63	
		<i>For Class 55 Rating, Add</i> .....	1,921.77	
40 05 19 00-1490	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,660.13	1,181.98
		<i>For Class 52 Rating, Deduct</i> .....	-1,305.62	
		<i>For Class 54 Rating, Add</i> .....	890.19	
		<i>For Class 55 Rating, Add</i> .....	1,978.61	
40 05 19 00-1491	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,004.32	1,184.14
		<i>For Class 52 Rating, Deduct</i> .....	-1,343.12	
		<i>For Class 54 Rating, Add</i> .....	915.76	
		<i>For Class 55 Rating, Add</i> .....	2,035.44	
40 05 19 00-1492	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,348.52	1,186.29
		<i>For Class 52 Rating, Deduct</i> .....	-1,380.62	
		<i>For Class 54 Rating, Add</i> .....	941.33	
		<i>For Class 55 Rating, Add</i> .....	2,092.27	
40 05 19 00-1493	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,692.70	1,188.45
		<i>For Class 52 Rating, Deduct</i> .....	-1,418.12	
		<i>For Class 54 Rating, Add</i> .....	966.90	
		<i>For Class 55 Rating, Add</i> .....	2,149.10	
40 05 19 00-1494	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,036.88	1,190.60
		<i>For Class 52 Rating, Deduct</i> .....	-1,455.62	
		<i>For Class 54 Rating, Add</i> .....	992.47	
		<i>For Class 55 Rating, Add</i> .....	2,205.93	
40 05 19 00-1495	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,381.06	1,192.76
		<i>For Class 52 Rating, Deduct</i> .....	-1,493.12	
		<i>For Class 54 Rating, Add</i> .....	1,018.04	
		<i>For Class 55 Rating, Add</i> .....	2,262.76	
40 05 19 00-1496	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,725.26	1,194.92
		<i>For Class 52 Rating, Deduct</i> .....	-1,530.62	
		<i>For Class 54 Rating, Add</i> .....	1,043.61	
		<i>For Class 55 Rating, Add</i> .....	2,319.59	
40 05 19 00-1497	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,069.44	1,197.08
		<i>For Class 52 Rating, Deduct</i> .....	-1,568.13	
		<i>For Class 54 Rating, Add</i> .....	1,069.18	
		<i>For Class 55 Rating, Add</i> .....	2,376.42	
40 05 19 00-1498	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,413.63	1,199.23
		<i>For Class 52 Rating, Deduct</i> .....	-1,605.63	
		<i>For Class 54 Rating, Add</i> .....	1,094.75	
		<i>For Class 55 Rating, Add</i> .....	2,433.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499 EA 36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,757.82	1,201.39
For Class 52 Rating, Deduct	-1,643.13	
For Class 54 Rating, Add	1,120.31	
For Class 55 Rating, Add	2,490.09	
40 05 19 00-1500 EA 36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,102.00	1,203.55
For Class 52 Rating, Deduct	-1,680.63	
For Class 54 Rating, Add	1,145.88	
For Class 55 Rating, Add	2,546.92	
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,446.20	1,205.70
For Class 52 Rating, Deduct	-1,718.13	
For Class 54 Rating, Add	1,171.45	
For Class 55 Rating, Add	2,603.75	
<b>40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,179.49	1,419.24
For Class 52 Rating, Deduct	-443.21	
For Class 54 Rating, Add	302.19	
For Class 55 Rating, Add	671.66	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,692.11	1,421.39
For Class 52 Rating, Deduct	-499.23	
For Class 54 Rating, Add	340.39	
For Class 55 Rating, Add	756.56	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,198.65	1,423.55
For Class 52 Rating, Deduct	-554.59	
For Class 54 Rating, Add	378.13	
For Class 55 Rating, Add	840.46	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,710.24	1,425.71
For Class 52 Rating, Deduct	-610.51	
For Class 54 Rating, Add	416.26	
For Class 55 Rating, Add	925.20	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,216.77	1,427.86
For Class 52 Rating, Deduct	-665.87	
For Class 54 Rating, Add	454.00	
For Class 55 Rating, Add	1,009.09	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,729.38	1,430.02
For Class 52 Rating, Deduct	-721.90	
For Class 54 Rating, Add	492.20	
For Class 55 Rating, Add	1,094.00	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,234.91	1,432.18
For Class 52 Rating, Deduct	-777.14	
For Class 54 Rating, Add	529.87	
For Class 55 Rating, Add	1,177.73	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,747.53	1,434.33
For Class 52 Rating, Deduct	-833.17	
For Class 54 Rating, Add	568.07	
For Class 55 Rating, Add	1,262.63	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,254.05	1,436.50
For Class 52 Rating, Deduct	-888.53	
For Class 54 Rating, Add	605.82	
For Class 55 Rating, Add	1,346.53	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,765.65	1,438.65
For Class 52 Rating, Deduct	-944.45	
For Class 54 Rating, Add	643.94	
For Class 55 Rating, Add	1,431.27	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,272.19	1,440.80
For Class 52 Rating, Deduct	-999.81	
For Class 54 Rating, Add	681.69	
For Class 55 Rating, Add	1,515.16	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,783.79	1,442.96
For Class 52 Rating, Deduct	-1,055.72	
For Class 54 Rating, Add	719.81	
For Class 55 Rating, Add	1,599.90	
40 05 19 00-1515 EA 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,290.32	1,445.12
For Class 52 Rating, Deduct	-1,111.08	
For Class 54 Rating, Add	757.56	
For Class 55 Rating, Add	1,683.79	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,797.86	1,447.28
			For Class 52 Rating, Deduct	-1,166.55	
			For Class 54 Rating, Add	795.38	
			For Class 55 Rating, Add	1,767.86	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,308.45	1,449.43
			For Class 52 Rating, Deduct	-1,222.36	
			For Class 54 Rating, Add	833.43	
			For Class 55 Rating, Add	1,852.43	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,814.98	1,451.60
			For Class 52 Rating, Deduct	-1,277.72	
			For Class 54 Rating, Add	871.17	
			For Class 55 Rating, Add	1,936.32	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,327.60	1,453.75
			For Class 52 Rating, Deduct	-1,333.74	
			For Class 54 Rating, Add	909.37	
			For Class 55 Rating, Add	2,021.23	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,834.12	1,455.90
			For Class 52 Rating, Deduct	-1,389.10	
			For Class 54 Rating, Add	947.12	
			For Class 55 Rating, Add	2,105.12	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,345.72	1,458.06
			For Class 52 Rating, Deduct	-1,445.02	
			For Class 54 Rating, Add	985.24	
			For Class 55 Rating, Add	2,189.86	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,852.26	1,460.22
			For Class 52 Rating, Deduct	-1,500.38	
			For Class 54 Rating, Add	1,022.99	
			For Class 55 Rating, Add	2,273.76	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,364.87	1,462.37
			For Class 52 Rating, Deduct	-1,556.41	
			For Class 54 Rating, Add	1,061.19	
			For Class 55 Rating, Add	2,358.66	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,871.41	1,464.53
			For Class 52 Rating, Deduct	-1,611.77	
			For Class 54 Rating, Add	1,098.93	
			For Class 55 Rating, Add	2,442.56	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,383.00	1,466.70
			For Class 52 Rating, Deduct	-1,667.68	
			For Class 54 Rating, Add	1,137.06	
			For Class 55 Rating, Add	2,527.30	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,889.53	1,468.84
			For Class 52 Rating, Deduct	-1,723.04	
			For Class 54 Rating, Add	1,174.80	
			For Class 55 Rating, Add	2,611.19	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,402.15	1,471.00
			For Class 52 Rating, Deduct	-1,779.07	
			For Class 54 Rating, Add	1,213.00	
			For Class 55 Rating, Add	2,696.10	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,908.68	1,473.16
			For Class 52 Rating, Deduct	-1,834.43	
			For Class 54 Rating, Add	1,250.75	
			For Class 55 Rating, Add	2,779.99	
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,419.27	1,475.31
			For Class 52 Rating, Deduct	-1,890.23	
			For Class 54 Rating, Add	1,288.80	
			For Class 55 Rating, Add	2,864.56	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,926.81	1,477.47
			For Class 52 Rating, Deduct	-1,945.70	
			For Class 54 Rating, Add	1,326.62	
			For Class 55 Rating, Add	2,948.63	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,331.88	1,479.63
			For Class 52 Rating, Deduct	-1,989.90	
			For Class 54 Rating, Add	1,356.75	
			For Class 55 Rating, Add	3,015.61	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,944.96	1,481.79
			For Class 52 Rating, Deduct	-2,056.98	
			For Class 54 Rating, Add	1,402.49	
			For Class 55 Rating, Add	3,117.26	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,451.48	1,483.94
For Class 52 Rating, Deduct	-2,112.34	
For Class 54 Rating, Add	1,440.23	
For Class 55 Rating, Add	3,201.15	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,963.08	1,486.10
For Class 52 Rating, Deduct	-2,168.26	
For Class 54 Rating, Add	1,478.36	
For Class 55 Rating, Add	3,285.89	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,469.60	1,488.26
For Class 52 Rating, Deduct	-2,223.61	
For Class 54 Rating, Add	1,516.10	
For Class 55 Rating, Add	3,369.79	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,982.22	1,490.42
For Class 52 Rating, Deduct	-2,279.64	
For Class 54 Rating, Add	1,554.30	
For Class 55 Rating, Add	3,454.69	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,487.75	1,492.57
For Class 52 Rating, Deduct	-2,334.89	
For Class 54 Rating, Add	1,591.97	
For Class 55 Rating, Add	3,538.42	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,000.36	1,494.72
For Class 52 Rating, Deduct	-2,390.92	
For Class 54 Rating, Add	1,630.17	
For Class 55 Rating, Add	3,623.33	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,506.89	1,496.89
For Class 52 Rating, Deduct	-2,446.28	
For Class 54 Rating, Add	1,667.92	
For Class 55 Rating, Add	3,707.22	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,018.48	1,499.04
For Class 52 Rating, Deduct	-2,502.19	
For Class 54 Rating, Add	1,706.04	
For Class 55 Rating, Add	3,791.96	
<b>40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,942.25	1,783.74
For Class 52 Rating, Deduct	-576.36	
For Class 54 Rating, Add	392.97	
For Class 55 Rating, Add	873.44	
40 05 19 00-1543 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,687.22	1,785.91
For Class 52 Rating, Deduct	-657.94	
For Class 54 Rating, Add	448.60	
For Class 55 Rating, Add	997.08	
40 05 19 00-1544 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,431.18	1,788.07
For Class 52 Rating, Deduct	-739.42	
For Class 54 Rating, Add	504.15	
For Class 55 Rating, Add	1,120.56	
40 05 19 00-1545 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,181.22	1,790.22
For Class 52 Rating, Deduct	-821.56	
For Class 54 Rating, Add	560.16	
For Class 55 Rating, Add	1,245.04	
40 05 19 00-1546 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,926.20	1,792.37
For Class 52 Rating, Deduct	-903.15	
For Class 54 Rating, Add	615.79	
For Class 55 Rating, Add	1,368.69	
40 05 19 00-1547 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,671.16	1,794.54
For Class 52 Rating, Deduct	-984.74	
For Class 54 Rating, Add	671.41	
For Class 55 Rating, Add	1,492.33	
40 05 19 00-1548 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,420.19	1,796.69
For Class 52 Rating, Deduct	-1,066.77	
For Class 54 Rating, Add	727.34	
For Class 55 Rating, Add	1,616.64	
40 05 19 00-1549 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,166.18	1,798.84
For Class 52 Rating, Deduct	-1,148.47	
For Class 54 Rating, Add	783.05	
For Class 55 Rating, Add	1,740.46	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,910.13	1,801.01
			For Class 52 Rating, Deduct	-1,229.95	
			For Class 54 Rating, Add	838.60	
			For Class 55 Rating, Add	1,863.93	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,660.18	1,803.17
			For Class 52 Rating, Deduct	-1,312.09	
			For Class 54 Rating, Add	894.61	
			For Class 55 Rating, Add	1,988.42	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,405.14	1,805.32
			For Class 52 Rating, Deduct	-1,393.68	
			For Class 54 Rating, Add	950.24	
			For Class 55 Rating, Add	2,112.06	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,155.18	1,807.48
			For Class 52 Rating, Deduct	-1,475.82	
			For Class 54 Rating, Add	1,006.24	
			For Class 55 Rating, Add	2,236.54	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,899.15	1,809.64
			For Class 52 Rating, Deduct	-1,557.30	
			For Class 54 Rating, Add	1,061.80	
			For Class 55 Rating, Add	2,360.02	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,644.11	1,811.79
			For Class 52 Rating, Deduct	-1,638.89	
			For Class 54 Rating, Add	1,117.42	
			For Class 55 Rating, Add	2,483.66	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,394.16	1,813.95
			For Class 52 Rating, Deduct	-1,721.03	
			For Class 54 Rating, Add	1,173.43	
			For Class 55 Rating, Add	2,608.15	
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,139.12	1,816.11
			For Class 52 Rating, Deduct	-1,802.62	
			For Class 54 Rating, Add	1,229.06	
			For Class 55 Rating, Add	2,731.79	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,883.08	1,818.26
			For Class 52 Rating, Deduct	-1,884.10	
			For Class 54 Rating, Add	1,284.61	
			For Class 55 Rating, Add	2,855.26	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,633.13	1,820.42
			For Class 52 Rating, Deduct	-1,966.24	
			For Class 54 Rating, Add	1,340.62	
			For Class 55 Rating, Add	2,979.75	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,378.09	1,822.58
			For Class 52 Rating, Deduct	-2,047.83	
			For Class 54 Rating, Add	1,396.25	
			For Class 55 Rating, Add	3,103.39	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,122.05	1,824.73
			For Class 52 Rating, Deduct	-2,129.30	
			For Class 54 Rating, Add	1,451.80	
			For Class 55 Rating, Add	3,226.86	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,872.09	1,826.89
			For Class 52 Rating, Deduct	-2,211.45	
			For Class 54 Rating, Add	1,507.81	
			For Class 55 Rating, Add	3,351.35	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,618.07	1,829.05
			For Class 52 Rating, Deduct	-2,293.15	
			For Class 54 Rating, Add	1,563.51	
			For Class 55 Rating, Add	3,475.16	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,362.03	1,831.20
			For Class 52 Rating, Deduct	-2,374.62	
			For Class 54 Rating, Add	1,619.06	
			For Class 55 Rating, Add	3,598.63	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,112.08	1,833.36
			For Class 52 Rating, Deduct	-2,456.77	
			For Class 54 Rating, Add	1,675.07	
			For Class 55 Rating, Add	3,723.12	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,857.05	1,835.52
			For Class 52 Rating, Deduct	-2,538.36	
			For Class 54 Rating, Add	1,730.70	
			For Class 55 Rating, Add	3,846.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,600.99	1,837.67
<i>For Class 52 Rating, Deduct</i>	-2,619.83	
<i>For Class 54 Rating, Add</i>	1,786.25	
<i>For Class 55 Rating, Add</i>	3,970.23	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,351.04	1,839.83
<i>For Class 52 Rating, Deduct</i>	-2,701.98	
<i>For Class 54 Rating, Add</i>	1,842.26	
<i>For Class 55 Rating, Add</i>	4,094.72	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,096.01	1,841.99
<i>For Class 52 Rating, Deduct</i>	-2,783.56	
<i>For Class 54 Rating, Add</i>	1,897.88	
<i>For Class 55 Rating, Add</i>	4,218.36	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,749.67	1,844.14
<i>For Class 52 Rating, Deduct</i>	-2,855.11	
<i>For Class 54 Rating, Add</i>	1,946.66	
<i>For Class 55 Rating, Add</i>	4,326.78	
40 05 19 00-1571 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,591.03	1,846.30
<i>For Class 52 Rating, Deduct</i>	-2,947.30	
<i>For Class 54 Rating, Add</i>	2,009.52	
<i>For Class 55 Rating, Add</i>	4,466.49	
40 05 19 00-1572 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,334.98	1,848.46
<i>For Class 52 Rating, Deduct</i>	-3,028.77	
<i>For Class 54 Rating, Add</i>	2,065.07	
<i>For Class 55 Rating, Add</i>	4,589.97	
40 05 19 00-1573 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,086.04	1,850.61
<i>For Class 52 Rating, Deduct</i>	-3,111.03	
<i>For Class 54 Rating, Add</i>	2,121.16	
<i>For Class 55 Rating, Add</i>	4,714.62	
40 05 19 00-1574 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,829.99	1,852.77
<i>For Class 52 Rating, Deduct</i>	-3,192.50	
<i>For Class 54 Rating, Add</i>	2,176.71	
<i>For Class 55 Rating, Add</i>	4,838.09	
40 05 19 00-1575 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	32,573.95	1,854.93
<i>For Class 52 Rating, Deduct</i>	-3,273.98	
<i>For Class 54 Rating, Add</i>	2,232.26	
<i>For Class 55 Rating, Add</i>	4,961.57	
40 05 19 00-1576 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,325.01	1,857.08
<i>For Class 52 Rating, Deduct</i>	-3,356.24	
<i>For Class 54 Rating, Add</i>	2,288.34	
<i>For Class 55 Rating, Add</i>	5,086.22	
40 05 19 00-1577 EA 48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,068.96	1,859.25
<i>For Class 52 Rating, Deduct</i>	-3,437.71	
<i>For Class 54 Rating, Add</i>	2,343.89	
<i>For Class 55 Rating, Add</i>	5,209.70	
40 05 19 00-1578 EA 48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,813.94	1,861.40
<i>For Class 52 Rating, Deduct</i>	-3,519.30	
<i>For Class 54 Rating, Add</i>	2,399.52	
<i>For Class 55 Rating, Add</i>	5,333.34	
40 05 19 00-1579 EA 48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,563.97	1,863.56
<i>For Class 52 Rating, Deduct</i>	-3,601.44	
<i>For Class 54 Rating, Add</i>	2,455.53	
<i>For Class 55 Rating, Add</i>	5,457.82	
<b>40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows</b>		
<small>(40 05 19 00-0001)</small>		
40 05 19 00-1581 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	296.68	104.06
40 05 19 00-1582 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	416.72	133.07
40 05 19 00-1583 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	582.49	150.73
40 05 19 00-1584 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	851.64	191.10
40 05 19 00-1585 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	1,053.64	211.91
40 05 19 00-1586 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	1,312.69	230.19
40 05 19 00-1587 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	1,617.14	283.80
40 05 19 00-1588 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	2,121.16	340.56
40 05 19 00-1589 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	2,613.11	428.86
40 05 19 00-1590 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	3,972.48	485.62
40 05 19 00-1591 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	6,677.96	643.28
40 05 19 00-1592 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	9,463.30	728.42
40 05 19 00-1593 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	15,842.73	832.49
40 05 19 00-1594 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	21,093.02	1,021.68

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1595			<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows</b> (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	281.46	104.06
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	392.37	133.07
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	520.60	150.73
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	762.35	191.10
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	940.00	211.91
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,081.35	230.19
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,361.45	283.80
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,777.20	340.56
40 05 19 00-1604	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,299.58	428.86
40 05 19 00-1605	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,026.84	485.62
40 05 19 00-1606	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	5,985.98	643.28
40 05 19 00-1607	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,958.01	728.42
40 05 19 00-1608	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	13,670.39	832.49
40 05 19 00-1609	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	18,635.56	1,021.68
40 05 19 00-1610			<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows</b> (40 05 19 00-0001)		
40 05 19 00-1611	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	280.44	104.06
40 05 19 00-1612	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	384.26	133.07
40 05 19 00-1613	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	513.49	150.73
40 05 19 00-1614	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	742.06	191.10
40 05 19 00-1615	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	984.64	211.91
40 05 19 00-1616	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,222.38	230.19
40 05 19 00-1617	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,392.90	283.80
40 05 19 00-1618	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,815.75	340.56
40 05 19 00-1619	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	2,467.00	428.86
40 05 19 00-1620	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	3,408.34	485.62
40 05 19 00-1621	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	6,053.96	643.28
40 05 19 00-1622	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	9,114.26	728.42
40 05 19 00-1623	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	13,981.88	832.49
40 05 19 00-1624	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	19,041.42	1,021.68
40 05 19 00-1625			<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows</b> (40 05 19 00-0001)		
40 05 19 00-1626	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	305.81	104.06
40 05 19 00-1627	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	431.94	133.07
40 05 19 00-1628	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	533.79	150.73
40 05 19 00-1629	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	814.10	191.10
40 05 19 00-1630	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,117.56	211.91
40 05 19 00-1631	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,256.88	230.19
40 05 19 00-1632	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,536.98	283.80
40 05 19 00-1633	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,815.75	340.56
40 05 19 00-1634	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	2,467.00	428.86
40 05 19 00-1635	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	3,545.32	485.62
40 05 19 00-1636	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	6,121.94	643.28
40 05 19 00-1637	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	9,181.23	728.42
40 05 19 00-1638	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	14,052.91	832.49
40 05 19 00-1639	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	19,184.48	1,021.68
40 05 19 00-1640			<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows</b> (40 05 19 00-0001)		
40 05 19 00-1641	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	393.73	118.57
40 05 19 00-1642	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	485.24	127.40
40 05 19 00-1643	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	546.79	141.90
40 05 19 00-1644	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	728.89	147.58
40 05 19 00-1645	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	770.15	162.08
40 05 19 00-1646	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	841.35	170.91
40 05 19 00-1647	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	783.69	158.30
40 05 19 00-1648	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	882.78	172.80
40 05 19 00-1649	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,013.86	181.64
40 05 19 00-1650	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,080.96	201.82
40 05 19 00-1651	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,013.86	181.64
40 05 19 00-1652	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,122.61	190.47
40 05 19 00-1653	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,250.60	210.64
40 05 19 00-1654	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,383.52	221.36
40 05 19 00-1655	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,169.13	208.43
40 05 19 00-1656	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,260.64	217.27
40 05 19 00-1657	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,446.44	237.45
40 05 19 00-1658	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,577.89	247.86
40 05 19 00-1659	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,689.14	257.00
40 05 19 00-1660	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,367.36	236.82
40 05 19 00-1661	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,633.39	245.65
40 05 19 00-1662	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,683.25	265.83
40 05 19 00-1663	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,777.14	276.23





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,926.95	285.38
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,101.51	312.18
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,763.00	280.96
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,880.88	289.80
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,328.48	309.98
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,416.29	320.39
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,663.51	329.52
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,607.73	356.33
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,776.54	384.70
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,473.63	309.35
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,592.53	318.17
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,789.51	338.35
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,931.09	348.76
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,195.56	357.91
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,444.17	384.70
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,528.77	413.09
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,709.55	408.52
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,406.10	427.59
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,688.84	436.74
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,283.44	463.55
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,138.15	491.92
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,094.88	536.07
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,492.99	564.45
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,060.54	470.16
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,839.87	479.31
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,383.89	506.12
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,326.29	534.49
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,970.08	578.64
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,687.81	607.02
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,271.96	685.85
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,698.81	531.34
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,031.80	558.14
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,152.19	586.52
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,962.37	630.67
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,449.93	659.05
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,310.50	737.88
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	17,362.97	780.46
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,618.98	761.53
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	18,074.71	840.36
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	18,605.95	882.94
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	23,777.26	934.97
<b>40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)</b>		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	352.48	104.06
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	541.52	133.07
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	791.51	150.73
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,123.56	191.10
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,582.27	211.91
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,843.34	230.19
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,390.29	283.80
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,960.27	340.56
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	4,033.60	428.86
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	5,914.50	485.62
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	10,394.59	643.28
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	15,803.78	728.42
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	24,482.39	832.49
<b>40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)</b>		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	371.76	104.06
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	503.98	133.07
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	817.89	150.73
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,104.29	191.10
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,479.79	211.91
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,745.94	230.19
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,156.93	283.80
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,708.64	340.56
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	3,572.96	428.86
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	5,037.85	485.62
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	8,246.59	643.28
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	11,776.68	728.42
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	21,832.15	832.49
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	23,551.49	1,021.68
<b>40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)</b>		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	506.88	167.12



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	628.08	205.60
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	876.45	229.56
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,255.57	298.31
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,661.94	325.43
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,217.68	350.02
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,516.55	441.47
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,065.65	504.54
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,866.99	636.98
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,673.94	703.20
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	9,636.38	971.24
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	13,864.28	1,113.14
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	28,582.63	1,286.57

**40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees**

(40 05 19 00-0001)

40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	632.89	186.68
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	779.67	190.47
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	781.48	214.43
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,024.33	210.64
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,013.97	234.61
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,069.37	249.75
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,294.23	221.36
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,293.00	245.33
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,365.66	260.47
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,626.95	309.02
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,877.84	230.19
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,840.08	254.16
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,921.87	269.30
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,032.99	317.86
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,155.72	334.57
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,275.61	257.00
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,100.87	280.96
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,069.01	296.10
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,427.71	344.66
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,358.66	361.37
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,627.63	376.83
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,780.27	285.38
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,104.30	309.35
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,530.05	324.48
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,543.77	373.04
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,766.93	389.76
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,018.65	405.20
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,233.27	469.85
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,116.33	329.52
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,084.37	353.50
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,148.91	368.63
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,285.39	417.18
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,414.21	433.90
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,458.91	449.35
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,162.61	513.99
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,256.76	548.69
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,072.21	357.91
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,524.09	381.87
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,684.01	397.01
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,833.68	445.57
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,293.27	462.29
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,399.87	477.73
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,552.62	542.38
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	5,969.86	577.06
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,176.94	616.64
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,209.99	460.70
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,254.24	475.84
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,462.76	524.40
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,488.09	541.12
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,511.49	556.56
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,676.41	621.21
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,773.60	655.89
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,017.99	744.20
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,246.65	782.03
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	9,948.16	659.37
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,639.02	671.35
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,713.43	705.72
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,800.94	719.28
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,841.89	731.57
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,955.82	777.31
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,025.92	808.84
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,215.55	875.06
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,467.62	908.17
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	15,002.76	1,042.18
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,732.70	570.45
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,044.87	619.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,070.18	635.72
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,116.93	651.17
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,262.56	715.81
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,434.85	750.50
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,568.63	838.79
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,816.71	876.63
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,302.97	1,065.83
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	27,348.53	1,165.16
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,714.66	738.20
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,738.08	753.65
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,907.04	818.29
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,959.60	852.99
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,187.73	941.28
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,412.49	979.11
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,033.99	1,168.32
<b>40 05 19 00-1830</b>	<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)</b>	
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	545.44	167.12
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	738.67	205.60
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,067.20	229.56
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,615.77	298.31
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,161.14	325.43
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,412.49	350.02
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,995.46	441.47
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,634.87	504.54
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,849.16	636.98
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	6,954.42	703.20
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	11,630.15	971.24
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	16,541.91	1,113.14
<b>40 05 19 00-1843</b>	<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)</b>	
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	448.03	167.12
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	623.00	205.60
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	891.67	229.56
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,171.36	298.31
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,656.86	325.43
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,140.56	350.02
<b>40 05 19 00-1850</b>	<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)</b>	
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	615.63	230.19
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	805.08	249.43
40 05 19 00-1853 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	854.66	278.13
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	985.82	253.53
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,076.03	286.95
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,115.63	308.39
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,268.03	273.71
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,396.80	307.13
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,526.69	328.58
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,894.90	405.52
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,632.83	284.12
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,722.02	317.54
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,852.93	338.98
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,240.43	415.92
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,116.01	438.94
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,046.37	326.69
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,176.26	348.13
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,428.80	425.07
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,639.21	448.09
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,768.57	469.85
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,437.03	353.50
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,585.18	374.94
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,837.73	451.88
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,067.42	474.90
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,256.05	496.66
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,488.01	599.14
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,538.87	381.87
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,686.02	403.31
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,900.00	480.25
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,128.68	503.27
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,587.79	525.03
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,918.60	627.52
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,097.41	668.51
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,298.77	426.02
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,456.05	447.46
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,655.83	524.40
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,899.73	547.42

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,974.30	569.18
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,839.82	671.67
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,026.74	712.66
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,520.63	845.10
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,344.23	454.40
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,458.90	475.84
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,721.59	552.78
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,882.28	575.80
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,978.16	597.56
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,279.55	700.05
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,825.07	741.04
40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,221.81	824.76
40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,952.74	920.78
40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,995.93	654.63
40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,051.22	676.39
40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,362.76	778.88
40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,469.51	819.88
40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,916.74	952.32
40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,561.54	999.61
40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,154.87	1,299.18
40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,284.43	832.80
40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,312.62	851.40
40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,575.20	934.97
40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,676.16	972.81
40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	12,045.30	1,083.18
40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	12,467.97	1,125.75
40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,842.01	1,370.13
40 05 19 00-1915 EA 36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,467.17	1,497.84
40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,600.35	749.24
40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,633.31	770.99
40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,931.66	873.48
40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,017.11	914.47
40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,432.88	1,046.92
40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,862.72	1,094.22
40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,993.08	1,393.78
40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,726.19	1,549.87
40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,590.68	1,740.65
40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,252.43	873.48
40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,551.79	975.96
40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,637.23	1,016.96
40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,028.66	1,149.40
40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,458.50	1,196.69
40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	24,556.68	1,496.27

### 40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	327.78	118.57
40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	415.23	127.40
40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	457.50	141.90
40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	555.39	147.58
40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	562.15	162.08
40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	654.66	170.91
40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	705.56	158.30
40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	730.58	172.80
40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	799.77	181.64
40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	899.34	201.82
40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,093.82	172.80
40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	876.88	181.64
40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	968.39	190.47
40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,064.92	210.64
40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,037.53	221.36
40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,293.26	193.93
40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,054.48	208.43
40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	998.86	217.27
40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,112.62	237.45
40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,372.93	247.86
40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,476.07	257.00
40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,635.23	236.82
40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,303.63	245.65
40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,431.61	265.83
40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,424.05	276.23
40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,634.74	285.38
40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,635.79	312.18
40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,678.78	280.96
40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,630.27	289.80
40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,765.36	309.98
40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,723.29	320.39
40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,983.70	329.52
40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	1,868.05	356.33
40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,296.62	384.70





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,194.79	318.17
40 05 19 00-1967 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,475.99	338.35
40 05 19 00-1968 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,661.19	348.76
40 05 19 00-1969 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,731.87	357.91
40 05 19 00-1970 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,426.49	384.70
40 05 19 00-1971 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,923.03	413.09
40 05 19 00-1972 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,083.52	408.52
40 05 19 00-1973 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,192.70	463.55
40 05 19 00-1974 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,370.65	491.92
40 05 19 00-1975 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,706.42	536.07
40 05 19 00-1976 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,196.86	564.45
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,712.20	506.12
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,000.74	534.49
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,381.15	578.64
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,939.59	607.02
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,998.59	685.85
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	9,685.91	659.05
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	10,949.87	737.88
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,375.00	780.46
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,298.65	761.53
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	13,802.06	840.36
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	15,417.95	882.94
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	17,263.27	934.97

**40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)**

40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	355.17	118.57
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	446.68	127.40
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	507.22	141.90
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	555.39	147.58
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	595.63	162.08
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	686.11	170.91
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	705.56	158.30
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	767.11	172.80
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	838.33	181.64
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	966.31	201.82
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	876.88	181.64
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	949.11	190.47
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,057.82	210.64
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,209.00	221.36
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,054.48	208.43
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,143.96	217.27
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,271.92	237.45
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,404.38	247.86
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,476.07	257.00
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,303.63	245.65
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,431.61	265.83
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,564.07	276.23
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,634.74	285.38
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,792.04	312.18
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,895.91	280.96
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,734.78	289.80
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,765.36	309.98
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,927.23	320.39
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,983.70	329.52
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,168.39	356.33
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,295.60	384.70
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,403.81	318.17
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,475.99	338.35
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,533.35	348.76
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,588.81	357.91
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,776.54	384.70
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,923.03	413.09
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,083.52	408.52
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,003.37	436.74
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,886.72	463.55
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,392.97	491.92
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,706.42	536.07
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,196.86	564.45
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,756.84	506.12
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,000.74	534.49
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,358.83	578.64
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,915.24	607.02
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,976.26	685.85
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,685.91	659.05
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,210.34	737.88
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,375.00	780.46
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	13,802.06	840.36
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	15,417.95	882.94
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	17,263.27	934.97

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2044			<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges</b> <sup>(40)</sup>		
			<small>05 19 00-0001</small>		
40 05 19 00-2045	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	126.03	41.00
40 05 19 00-2046	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	189.15	60.55
40 05 19 00-2047	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	272.30	71.90
40 05 19 00-2048	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	372.63	83.88
40 05 19 00-2049	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	479.84	98.38
40 05 19 00-2050	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	631.94	110.37
40 05 19 00-2051	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	754.24	126.14
40 05 19 00-2052	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	1,022.45	176.59
40 05 19 00-2053	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	1,356.19	220.73
40 05 19 00-2054	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	1,926.05	268.04
40 05 19 00-2055	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	2,707.25	312.18
40 05 19 00-2056	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	4,808.65	343.72
40 05 19 00-2057	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	6,766.69	378.40
40 05 19 00-2058	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	8,933.59	425.70
40 05 19 00-2059			<b>Ductile Iron Bolt Packs</b> <sup>(40 05 19)</sup>		
			Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2060	EA		4" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	36.78	
			Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	10.30	
			For Hot Dip Galvanized, Add	14.71	
40 05 19 00-2061	EA		6" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	56.75	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	15.89	
			For Hot Dip Galvanized, Add	22.70	
40 05 19 00-2062	EA		8" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	61.62	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	17.25	
			For Hot Dip Galvanized, Add	24.65	
40 05 19 00-2063	EA		10" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	138.42	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	38.76	
			For Hot Dip Galvanized, Add	55.37	
40 05 19 00-2064	EA		12" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	139.64	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	39.10	
			For Hot Dip Galvanized, Add	55.86	
40 05 19 00-2065	EA		14" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	156.45	
			Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	43.81	
			For Hot Dip Galvanized, Add	62.58	
40 05 19 00-2066	EA		16" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	263.00	
			Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	73.64	
			For Hot Dip Galvanized, Add	105.20	
40 05 19 00-2067	EA		18" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	382.08	
			Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	106.98	
			For Hot Dip Galvanized, Add	152.83	
40 05 19 00-2068	EA		20" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	482.42	
			Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	135.08	
			For Hot Dip Galvanized, Add	192.97	
40 05 19 00-2069	EA		24" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	690.25	
			Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	193.27	
			For Hot Dip Galvanized, Add	276.10	
40 05 19 00-2070	EA		30" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	1,090.70	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	305.40	
			For Hot Dip Galvanized, Add	436.28	
40 05 19 00-2071	EA		36" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	1,555.91	
			Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	435.65	
			For Hot Dip Galvanized, Add	622.36	
40 05 19 00-2072	EA		42" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	2,001.64	
			Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	560.46	
			For Hot Dip Galvanized, Add	800.66	
40 05 19 00-2073	EA		48" Pipe Diameter, Ductile Iron Flange Bolt Pack .....	2,446.44	
			Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	685.00	
			For Hot Dip Galvanized, Add	978.58	
40 05 19 00-2074			<b>Full Face Flange Gaskets, ANSI/AWWA C115/A21.15</b> <sup>(40 05 19)</sup>		
			Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2075			<b>Full Face Flange Styrene Butadiene (SBR) Gaskets</b> <sup>(40 05 19 00-2074)</sup>		
40 05 19 00-2076	EA		4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick .....	6.15	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077	EA			6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	7.82	
40 05 19 00-2078	EA			8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.62	
40 05 19 00-2079	EA			10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	12.29	
40 05 19 00-2080	EA			12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.41	
40 05 19 00-2081	EA			14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	22.35	
40 05 19 00-2082	EA			16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2083	EA			18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.06	
40 05 19 00-2084	EA			20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	44.70	
40 05 19 00-2085	EA			24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	48.05	
40 05 19 00-2086	EA			30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	62.02	
40 05 19 00-2087	EA			36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	70.96	
40 05 19 00-2088	EA			42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.99	
40 05 19 00-2089	EA			48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.25	
<b>40 05 19 00-2090</b>	<b>Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)</b>					
Note: (Acrylonitrile Butadiene)						
40 05 19 00-2091	EA			4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	19.00	
40 05 19 00-2092	EA			6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	26.82	
40 05 19 00-2093	EA			8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	41.35	
40 05 19 00-2094	EA			10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2095	EA			12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2096	EA			14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2097	EA			16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	112.87	
40 05 19 00-2098	EA			18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	113.43	
40 05 19 00-2099	EA			20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	117.90	
40 05 19 00-2100	EA			24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	124.60	
40 05 19 00-2101	EA			30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	138.01	
40 05 19 00-2102	EA			36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.98	
40 05 19 00-2103	EA			42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	216.24	
40 05 19 00-2104	EA			48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	236.35	
<b>40 05 19 00-2105</b>	<b>Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)</b>					
40 05 19 00-2106	EA			4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	16.76	
40 05 19 00-2107	EA			6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	21.79	
40 05 19 00-2108	EA			8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.61	
40 05 19 00-2109	EA			10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	34.64	
40 05 19 00-2110	EA			12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	38.55	
40 05 19 00-2111	EA			14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	63.70	
40 05 19 00-2112	EA			16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	76.55	
40 05 19 00-2113	EA			18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	77.11	
40 05 19 00-2114	EA			20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	78.78	
40 05 19 00-2115	EA			24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2116	EA			30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	112.31	
40 05 19 00-2117	EA			36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	127.95	
40 05 19 00-2118	EA			42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	183.27	
40 05 19 00-2119	EA			48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	202.27	
<b>40 05 19 00-2120</b>	<b>Full Face Flange Neoprene Gaskets (40 05 19 00-2074)</b>					
Note: (Polychloroprene)						
40 05 19 00-2121	EA			4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	19.56	
40 05 19 00-2122	EA			6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2123	EA			8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	41.91	
40 05 19 00-2124	EA			10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2125	EA			12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2126	EA			14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	64.82	
40 05 19 00-2127	EA			16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	113.98	
40 05 19 00-2128	EA			18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	114.54	
40 05 19 00-2129	EA			20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	121.25	
40 05 19 00-2130	EA			24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	122.92	
40 05 19 00-2131	EA			30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	133.54	
40 05 19 00-2132	EA			36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	150.30	
40 05 19 00-2133	EA			42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	217.91	
40 05 19 00-2134	EA			48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	238.59	
<b>40 05 19 00-2135</b>	<b>Full Face Flange FKM Gaskets (40 05 19 00-2074)</b>					
Note: (Fluoroelastomer Fluorel Viton®)						
40 05 19 00-2136	EA			4" Full Face Flange FKM Gasket, 1/8" Thick.....	57.07	
40 05 19 00-2137	EA			6" Full Face Flange FKM Gasket, 1/8" Thick.....	84.98	
40 05 19 00-2138	EA			8" Full Face Flange FKM Gasket, 1/8" Thick.....	113.51	
40 05 19 00-2139	EA			10" Full Face Flange FKM Gasket, 1/8" Thick.....	136.98	
40 05 19 00-2140	EA			12" Full Face Flange FKM Gasket, 1/8" Thick.....	178.20	
40 05 19 00-2141	EA			14" Full Face Flange FKM Gasket, 1/8" Thick.....	325.95	
40 05 19 00-2142	EA			16" Full Face Flange FKM Gasket, 1/8" Thick.....	373.51	
40 05 19 00-2143	EA			18" Full Face Flange FKM Gasket, 1/8" Thick.....	391.27	
40 05 19 00-2144	EA			20" Full Face Flange FKM Gasket, 1/8" Thick.....	417.27	
40 05 19 00-2145	EA			24" Full Face Flange FKM Gasket, 1/8" Thick.....	577.08	
40 05 19 00-2146	EA			30" Full Face Flange FKM Gasket, 1/8" Thick.....	691.86	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147 EA 36" Full Face Flange FKM Gasket, 1/8" Thick.....	729.91	
40 05 19 00-2148 EA 42" Full Face Flange FKM Gasket, 1/8" Thick.....	910.01	
40 05 19 00-2149 EA 48" Full Face Flange FKM Gasket, 1/8" Thick.....	953.76	
<b>40 05 19 00-2150 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)</b>		
40 05 19 00-2151 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	286.69	60.35
40 05 19 00-2152 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	395.10	73.67
40 05 19 00-2153 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	580.14	89.86
40 05 19 00-2154 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	793.46	109.62
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,006.04	133.67
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,603.69	163.08
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	2,507.98	199.03
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	2,598.75	242.74
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,183.49	296.21
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,554.80	361.31
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	4,575.26	440.88
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	6,772.98	537.80
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	17,474.17	656.18
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	22,310.90	800.49
<b>40 05 23 Stainless Steel Process Pipe and Tubing (40 05)</b>		
<b>40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)</b>		
<b>40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)</b>		
<sup>23)</sup> Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.		
40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	27.76	8.22
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	2.92	
For Work In Restricted Working Space, Add	4.96	
40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	31.41	9.43
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	3.06	
For Work In Restricted Working Space, Add	5.89	
40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	36.57	10.63
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	3.59	
For Work In Restricted Working Space, Add	6.83	
40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	41.94	12.84
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	4.53	
For Work In Restricted Working Space, Add	7.36	
40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	46.25	13.21
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	5.19	
For Work In Restricted Working Space, Add	7.89	
40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	56.01	17.45
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	6.33	
For Work In Restricted Working Space, Add	9.50	
40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	81.09	21.52
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	10.88	
For Work In Restricted Working Space, Add	11.77	
40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	102.50	24.94
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	14.17	
For Work In Restricted Working Space, Add	14.40	
40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	139.39	24.94
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	18.27	
<b>40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)</b>		
<b>40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)</b>		
<b>40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)</b>		
40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	7.20	2.71
For Work In Restricted Working Space, Add	1.61	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	8.35	3.21
For Work In Restricted Working Space, Add	1.94	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing.....	9.97	3.81
For Work In Restricted Working Space, Add	2.26	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	16.03	4.31
For Work In Restricted Working Space, Add	2.58	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	18.98	4.82
For Work In Restricted Working Space, Add	2.91	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	21.00	5.42
For Work In Restricted Working Space, Add	3.24	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing.....	23.52	6.52
For Work In Restricted Working Space, Add	3.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0021    0.049" Wall</b> <small>(40 05 23 23-0012)</small>		
40 05 23 23-0022    LF   1/4", 0.049" Wall, Type 304, Stainless Steel Tubing .....	11.84	3.21
For Work In Restricted Working Space, Add	1.94	
40 05 23 23-0023    LF   3/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....	13.21	3.81
For Work In Restricted Working Space, Add	2.26	
40 05 23 23-0024    LF   1/2", 0.049" Wall, Type 304, Stainless Steel Tubing .....	15.86	4.31
For Work In Restricted Working Space, Add	2.58	
40 05 23 23-0025    LF   5/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....	20.07	5.42
For Work In Restricted Working Space, Add	3.24	
40 05 23 23-0026    LF   3/4", 0.049" Wall, Type 304, Stainless Steel Tubing .....	22.99	6.52
For Work In Restricted Working Space, Add	3.88	
40 05 23 23-0027    LF   7/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....	25.87	7.52
For Work In Restricted Working Space, Add	4.53	
40 05 23 23-0028    LF   1", 0.049" Wall, Type 304, Stainless Steel Tubing .....	29.83	8.53
For Work In Restricted Working Space, Add	5.15	
<b>40 05 23 23-0029    0.065" Wall</b> <small>(40 05 23 23-0012)</small>		
40 05 23 23-0030    LF   1/4", 0.065" Wall, Type 304, Stainless Steel Tubing .....	13.82	3.81
For Work In Restricted Working Space, Add	2.26	
40 05 23 23-0031    LF   3/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....	15.90	4.31
For Work In Restricted Working Space, Add	2.58	
40 05 23 23-0032    LF   1/2", 0.065" Wall, Type 304, Stainless Steel Tubing .....	19.62	5.42
For Work In Restricted Working Space, Add	3.24	
40 05 23 23-0033    LF   5/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....	23.07	6.52
For Work In Restricted Working Space, Add	3.88	
40 05 23 23-0034    LF   3/4", 0.065" Wall, Type 304, Stainless Steel Tubing .....	27.21	7.52
For Work In Restricted Working Space, Add	4.53	
40 05 23 23-0035    LF   7/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....	31.25	8.53
For Work In Restricted Working Space, Add	5.15	
40 05 23 23-0036    LF   1", 0.065" Wall, Type 304, Stainless Steel Tubing .....	35.22	9.64
For Work In Restricted Working Space, Add	5.79	
<b>40 05 23 23-0037    Type 304 Tube Fittings</b> <small>(40 05 23 23-0011)</small>		
<b>40 05 23 23-0038    90 Degree Elbows</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0039    EA   1/4", Type 304, Stainless Steel, 90 Degree Elbow .....	44.49	10.83
For Work In Restricted Working Space, Add	6.47	
40 05 23 23-0040    EA   3/8", Type 304, Stainless Steel, 90 Degree Elbow .....	52.50	11.84
For Work In Restricted Working Space, Add	7.08	
40 05 23 23-0041    EA   1/2", Type 304, Stainless Steel, 90 Degree Elbow .....	78.56	13.35
For Work In Restricted Working Space, Add	8.03	
40 05 23 23-0042    EA   5/8", Type 304, Stainless Steel, 90 Degree Elbow .....	83.99	14.95
For Work In Restricted Working Space, Add	8.98	
40 05 23 23-0043    EA   3/4", Type 304, Stainless Steel, 90 Degree Elbow .....	93.90	16.15
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-0044    EA   7/8", Type 304, Stainless Steel, 90 Degree Elbow .....	127.75	17.95
For Work In Restricted Working Space, Add	10.75	
40 05 23 23-0045    EA   1", Type 304, Stainless Steel, 90 Degree Elbow .....	162.50	21.37
For Work In Restricted Working Space, Add	12.81	
<b>40 05 23 23-0046    Union Tees</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0047    EA   1/4", Type 304, Stainless Steel, Union Tee .....	70.48	16.15
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-0048    EA   3/8", Type 304, Stainless Steel, Union Tee .....	85.27	17.95
For Work In Restricted Working Space, Add	10.75	
40 05 23 23-0049    EA   1/2", Type 304, Stainless Steel, Union Tee .....	115.98	20.07
For Work In Restricted Working Space, Add	12.04	
40 05 23 23-0050    EA   5/8", Type 304, Stainless Steel, Union Tee .....	124.94	22.77
For Work In Restricted Working Space, Add	13.68	
40 05 23 23-0051    EA   3/4", Type 304, Stainless Steel, Union Tee .....	159.04	24.48
For Work In Restricted Working Space, Add	14.68	
40 05 23 23-0052    EA   7/8", Type 304, Stainless Steel, Union Tee .....	251.26	27.09
For Work In Restricted Working Space, Add	16.27	
40 05 23 23-0053    EA   1", Type 304, Stainless Steel, Union Tee .....	301.11	32.41
For Work In Restricted Working Space, Add	19.42	
<b>40 05 23 23-0054    Unions</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0055    EA   1/4", Type 304, Stainless Steel, Union .....	67.45	16.15
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-0056    EA   3/8", Type 304, Stainless Steel, Union .....	86.98	17.95
For Work In Restricted Working Space, Add	10.75	
40 05 23 23-0057    EA   1/2", Type 304, Stainless Steel, Union .....	117.10	20.07
For Work In Restricted Working Space, Add	12.04	
40 05 23 23-0058    EA   5/8", Type 304, Stainless Steel, Union .....	142.55	22.77
For Work In Restricted Working Space, Add	13.68	
40 05 23 23-0059    EA   3/4", Type 304, Stainless Steel, Union .....	169.76	24.48
For Work In Restricted Working Space, Add	14.68	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0060	EA	7/8", Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	259.81 16.27	27.09
40 05 23	23-0061	EA	1", Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	276.88 19.42	32.41
<b>40 05 23</b>	<b>23-0062</b>		<b>Male Connectors</b> <small>(40 05 23 23-0037)</small>		
40 05 23	23-0063	EA	1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	33.63 6.47	10.83
40 05 23	23-0064	EA	3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	41.83 7.08	11.84
40 05 23	23-0065	EA	1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	54.01 8.03	13.35
40 05 23	23-0066	EA	5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	60.85 8.98	14.95
40 05 23	23-0067	EA	3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	73.33 9.71	16.15
40 05 23	23-0068	EA	7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	109.71 10.75	17.95
40 05 23	23-0069	EA	1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	115.18 12.81	21.37
<b>40 05 23</b>	<b>23-0070</b>		<b>Type 304 Valves</b> <small>(40 05 23 23-0011)</small>		
<b>40 05 23</b>	<b>23-0071</b>		<b>Gate Valves</b> <small>(40 05 23 23-0070)</small>		
40 05 23	23-0072	EA	1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	163.83 8.77	16.15
40 05 23	23-0073	EA	3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	273.48 9.23	18.96
40 05 23	23-0074	EA	1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	285.42 12.81	21.37
40 05 23	23-0075	EA	3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	316.62 14.68	24.48
40 05 23	23-0076	EA	1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	293.40 19.42	32.41
<b>40 05 23</b>	<b>23-0077</b>		<b>Globe Valves</b> <small>(40 05 23 23-0070)</small>		
40 05 23	23-0078	EA	1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	166.04 8.77	16.15
40 05 23	23-0079	EA	3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	111.28 9.23	18.96
40 05 23	23-0080	EA	1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	198.18 12.81	21.37
40 05 23	23-0081	EA	3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	220.81 14.68	24.48
40 05 23	23-0082	EA	1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	321.17 19.42	32.41
<b>40 05 23</b>	<b>23-0083</b>		<b>Check Valves</b> <small>(40 05 23 23-0070)</small>		
40 05 23	23-0084	EA	1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	230.85 8.77	16.15
40 05 23	23-0085	EA	3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	232.38 9.23	18.96
40 05 23	23-0086	EA	1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	155.40 12.81	21.37
40 05 23	23-0087	EA	3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	163.28 14.68	24.48
40 05 23	23-0088	EA	1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	182.33 19.42	32.41
<b>40 05 23</b>	<b>23-0089</b>		<b>Plug Valves</b> <small>(40 05 23 23-0070)</small>		
40 05 23	23-0090	EA	1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	356.70 12.81	21.37
40 05 23	23-0091	EA	3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	390.86 14.68	24.48
40 05 23	23-0092	EA	1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	443.86 19.42	32.41
40 05 23	23-0093	EA	1-1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	614.15 21.97	36.62
40 05 23	23-0094	EA	2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	800.43 30.10	50.16
<b>40 05 23</b>	<b>23-0095</b>		<b>Type 316 Tubing</b> <small>(40 05 23 23-0011)</small>		
<b>40 05 23</b>	<b>23-0096</b>		<b>0.035" Wall</b> <small>(40 05 23 23-0095)</small>		
40 05 23	23-0097	LF	1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	7.48 1.61	2.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	9.71 1.94	3.21
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	10.80 2.26	3.81
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	18.22 2.58	4.31
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	20.68 2.91	4.82
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	26.23 3.24	5.42
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	27.57 3.88	6.52
<b>40 05 23 23-0104 0.049" Wall</b> <small>(40 05 23 23-0095)</small>		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	13.01 1.94	3.21
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	14.44 2.26	3.81
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	17.02 2.58	4.31
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	22.20 3.24	5.42
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	25.64 3.88	6.52
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	32.67 4.53	7.52
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	33.40 5.15	8.53
<b>40 05 23 23-0112 0.065" Wall</b> <small>(40 05 23 23-0095)</small>		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	15.22 2.26	3.81
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	16.97 2.58	4.31
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	21.30 3.24	5.42
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	25.38 3.88	6.52
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	30.74 4.53	7.52
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	33.88 5.15	8.53
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	39.45 5.79	9.64
<b>40 05 23 23-0120 Type 316 Tube Fittings</b> <small>(40 05 23 23-0011)</small>		
<b>40 05 23 23-0121 90 Degree Elbows</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	61.03 6.47	10.83
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	73.37 7.08	11.84
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	115.97 8.03	13.35
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	123.02 8.98	14.95
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	138.32 9.71	16.15
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	194.11 10.75	17.95
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	249.01 12.81	21.37
<b>40 05 23 23-0129 Union Tees</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	98.00 9.71	16.15
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	120.97 10.75	17.95
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	170.74 12.04	20.07
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	182.21 13.68	22.77
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	238.53 14.68	24.48
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	393.51 16.27	27.09
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	471.77 19.42	32.41



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0137 Unions</b> (40 05 23 23-0120)		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316.....	63.25	16.15
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316.....	80.87	17.95
For Work In Restricted Working Space, Add	10.75	
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316.....	107.90	20.07
For Work In Restricted Working Space, Add	12.04	
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316.....	130.96	22.77
For Work In Restricted Working Space, Add	13.68	
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316.....	155.31	24.48
For Work In Restricted Working Space, Add	14.68	
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316.....	235.24	27.09
For Work In Restricted Working Space, Add	16.27	
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316.....	251.52	32.41
For Work In Restricted Working Space, Add	19.42	
<b>40 05 23 23-0145 Male Connectors</b> (40 05 23 23-0120)		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	42.16	10.83
For Work In Restricted Working Space, Add	6.47	
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	54.71	11.84
For Work In Restricted Working Space, Add	7.08	
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	73.29	13.35
For Work In Restricted Working Space, Add	8.03	
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	82.70	14.95
For Work In Restricted Working Space, Add	8.98	
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	102.29	16.15
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	161.94	17.95
For Work In Restricted Working Space, Add	10.75	
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	166.44	21.37
For Work In Restricted Working Space, Add	12.81	
<b>40 05 23 23-0153 Type 316 Valves</b> (40 05 23 23-0011)		
<b>40 05 23 23-0154 Gate Valves</b> (40 05 23 23-0153)		
40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316.....	207.29	16.15
For Work In Restricted Working Space, Add	8.77	
40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316.....	351.85	18.96
For Work In Restricted Working Space, Add	9.23	
40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316.....	363.79	21.37
For Work In Restricted Working Space, Add	12.81	
40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316.....	403.05	24.48
For Work In Restricted Working Space, Add	14.68	
40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316.....	367.23	32.41
For Work In Restricted Working Space, Add	19.42	
40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316.....	502.00	33.60
For Work In Restricted Working Space, Add	20.17	
40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316.....	802.50	36.62
For Work In Restricted Working Space, Add	21.97	
40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316.....	956.00	50.16
For Work In Restricted Working Space, Add	30.10	
40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316.....	1,439.36	160.62
For Work In Restricted Working Space, Add	96.34	
<b>40 05 23 23-0164 Globe Valves</b> (40 05 23 23-0153)		
40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316.....	210.21	16.15
For Work In Restricted Working Space, Add	8.77	
40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316.....	137.28	18.96
For Work In Restricted Working Space, Add	9.23	
40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316.....	248.38	21.37
For Work In Restricted Working Space, Add	12.81	
40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316.....	276.30	24.48
For Work In Restricted Working Space, Add	14.68	
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316.....	403.97	32.41
For Work In Restricted Working Space, Add	19.42	
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316.....	502.90	33.40
For Work In Restricted Working Space, Add	20.02	
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316.....	831.67	36.62
For Work In Restricted Working Space, Add	21.97	
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316.....	985.17	50.16
For Work In Restricted Working Space, Add	30.10	
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316.....	1,254.61	160.62
For Work In Restricted Working Space, Add	96.34	
<b>40 05 23 23-0174 Check Valves</b> (40 05 23 23-0153)		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316.....	295.95	16.15
For Work In Restricted Working Space, Add	8.77	
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316.....	297.48	18.96
For Work In Restricted Working Space, Add	9.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	191.79 12.81	21.37
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	200.20 14.68	24.48
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	220.30 19.42	32.41
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	302.34 20.17	33.60
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	666.37 21.97	36.62
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	810.15 30.10	50.16
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,617.63 96.34	160.62
<b>40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	319.12 12.81	21.37
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	372.69 14.68	24.48
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	475.57 19.42	32.41
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	754.82 21.97	36.62
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	1,054.55 30.10	50.16
<b>40 05 23 23-0190 Diaphragm Valves, Teflon Lined</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	421.35 12.81	21.37
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	484.40 14.68	24.48
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	587.28 19.42	32.41
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	911.96 21.97	36.62
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	1,241.99 30.10	50.16
<b>40 05 23 23-0196 Strainers</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	422.34 12.81	21.37
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	505.25 14.75	24.58
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	661.16 19.57	32.61
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	819.64 20.17	33.60
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,027.71 21.97	36.62
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,481.58 30.10	50.16
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,035.68 40.03	66.72
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,965.12 60.20	100.32
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	3,801.58 96.31	160.52
<b>40 05 23 23-0206 Plug Valves</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	449.78 12.81	21.37
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	492.22 14.68	24.48
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	556.24 19.42	32.41
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	774.49 21.97	36.62
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,007.96 30.10	50.16
<b>40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place</b> <small>(40 05 23 23-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe	20.06	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe	21.66	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe	24.37	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe	25.57	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0217	EA		Cut And Prepare 1-1/2" Stainless Steel Pipe .....	27.08	
40 05 23 23-0218	EA		Cut And Prepare 2" Stainless Steel Pipe .....	29.08	
40 05 23 23-0219	EA		Cut And Prepare 2-1/2" Stainless Steel Pipe .....	31.09	
40 05 23 23-0220	EA		Cut And Prepare 3" Stainless Steel Pipe .....	34.10	
40 05 23 23-0221	EA		Cut And Prepare 4" Stainless Steel Pipe .....	37.10	
40 05 23 23-0222	EA		Cut And Prepare 6" Stainless Steel Pipe .....	40.11	
40 05 23 23-0223	EA		Cut And Prepare 8" Stainless Steel Pipe .....	43.13	
40 05 23 23-0224	EA		Cut And Prepare 10" Stainless Steel Pipe .....	47.14	
40 05 23 23-0225	EA		Cut And Prepare 12" Stainless Steel Pipe .....	51.15	
40 05 23 23-0226	EA		Cut And Prepare 14" Stainless Steel Pipe .....	55.16	
40 05 23 23-0227	EA		Cut And Prepare 16" Stainless Steel Pipe .....	59.17	
40 05 23 23-0228	EA		Cut And Prepare 18" Stainless Steel Pipe .....	62.18	
40 05 23 23-0229	EA		Cut And Prepare 20" Stainless Steel Pipe .....	65.19	
40 05 23 23-0230	EA		Cut And Prepare 24" Stainless Steel Pipe .....	69.20	
<b>40 05 23 23-0231</b>			<b>Stainless Steel Pipe And Fittings (40 05 23 23)</b>		
<b>40 05 23 23-0232</b>			<b>Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings</b>		
<b>40 05 23 23-0233</b>			<b>Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)</b>		
40 05 23 23-0234	LF		1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	14.14	4.31
			<i>For Work In Restricted Working Space, Add</i>	2.58	
40 05 23 23-0235	LF		3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	17.44	5.42
			<i>For Work In Restricted Working Space, Add</i>	3.24	
40 05 23 23-0236	LF		1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	21.39	6.52
			<i>For Work In Restricted Working Space, Add</i>	3.88	
40 05 23 23-0237	LF		1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting .....	25.64	7.52
			<i>For Work In Restricted Working Space, Add</i>	4.53	
40 05 23 23-0238	LF		1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting .....	29.63	8.53
			<i>For Work In Restricted Working Space, Add</i>	5.15	
40 05 23 23-0239	LF		2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	37.81	10.83
			<i>For Work In Restricted Working Space, Add</i>	6.47	
40 05 23 23-0240	LF		2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting .....	50.80	12.84
			<i>For Work In Restricted Working Space, Add</i>	7.72	
40 05 23 23-0241	LF		3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	63.85	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0242	LF		4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	86.28	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
<b>40 05 23 23-0243</b>			<b>150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)</b>		
40 05 23 23-0244	EA		1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	34.69	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0245	EA		3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	46.01	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0246	EA		1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	59.07	27.09
			<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0247	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....	82.58	37.12
			<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0248	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....	98.24	43.64
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0249	EA		2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	119.57	52.78
			<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0250	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....	199.02	83.57
			<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0251	EA		3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	256.27	107.84
			<i>For Work In Restricted Working Space, Add</i>	64.73	
40 05 23 23-0252	EA		4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	346.61	133.73
			<i>For Work In Restricted Working Space, Add</i>	80.26	
<b>40 05 23 23-0253</b>			<b>150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)</b>		
40 05 23 23-0254	EA		1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	35.23	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0255	EA		3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	46.87	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0256	EA		1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	59.34	27.09
			<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0257	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....	82.47	37.12
			<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0258	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....	96.96	43.64
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0259	EA		2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	119.27	52.78
			<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0260	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....	204.81	83.57
			<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0261	EA		3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	267.58	107.84
			<i>For Work In Restricted Working Space, Add</i>	64.73	
40 05 23 23-0262	EA		4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	359.78	133.73
			<i>For Work In Restricted Working Space, Add</i>	80.26	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees</b> <small>(40 05 23 23-0232)</small>						
40 05 23 23-0264	EA			1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	52.10	24.48
				<i>For Work In Restricted Working Space, Add</i>	14.68	
40 05 23 23-0265	EA			3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	69.72	32.41
				<i>For Work In Restricted Working Space, Add</i>	19.42	
40 05 23 23-0266	EA			1", 150#, Type 304 Stainless Steel Threaded Tee.....	86.62	40.13
				<i>For Work In Restricted Working Space, Add</i>	24.08	
40 05 23 23-0267	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Tee.....	124.15	55.78
				<i>For Work In Restricted Working Space, Add</i>	33.44	
40 05 23 23-0268	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	141.17	62.70
				<i>For Work In Restricted Working Space, Add</i>	37.62	
40 05 23 23-0269	EA			2", 150#, Type 304 Stainless Steel Threaded Tee.....	187.45	83.57
				<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0270	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	285.15	120.89
				<i>For Work In Restricted Working Space, Add</i>	72.53	
40 05 23 23-0271	EA			3", 150#, Type 304 Stainless Steel Threaded Tee.....	386.16	161.83
				<i>For Work In Restricted Working Space, Add</i>	97.09	
40 05 23 23-0272	EA			4", 150#, Type 304 Stainless Steel Threaded Tee.....	514.24	200.65
				<i>For Work In Restricted Working Space, Add</i>	120.39	
<b>40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers</b> <small>(40 05 23 23-0232)</small>						
40 05 23 23-0274	EA			3/4", 150#, Type 304 Stainless Steel Threaded Reducer.....	45.61	21.37
				<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0275	EA			1", 150#, Type 304 Stainless Steel Threaded Reducer.....	58.22	27.09
				<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0276	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer.....	80.15	37.12
				<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0277	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer.....	95.63	43.64
				<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0278	EA			2", 150#, Type 304 Stainless Steel Threaded Reducer.....	119.63	52.78
				<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0279	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer.....	197.31	83.57
				<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0280	EA			3", 150#, Type 304 Stainless Steel Threaded Reducer.....	258.61	107.84
				<i>For Work In Restricted Working Space, Add</i>	64.73	
40 05 23 23-0281	EA			4", 150#, Type 304 Stainless Steel Threaded Reducer.....	338.52	133.73
				<i>For Work In Restricted Working Space, Add</i>	80.26	
<b>40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps</b> <small>(40 05 23 23-0232)</small>						
40 05 23 23-0283	EA			1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	17.73	8.13
				<i>For Work In Restricted Working Space, Add</i>	4.85	
40 05 23 23-0284	EA			3/4", 150#, Type 304 Stainless Steel Threaded Cap.....	23.51	10.83
				<i>For Work In Restricted Working Space, Add</i>	6.47	
40 05 23 23-0285	EA			1", 150#, Type 304 Stainless Steel Threaded Cap.....	29.65	13.35
				<i>For Work In Restricted Working Space, Add</i>	8.03	
40 05 23 23-0286	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Cap.....	43.12	18.96
				<i>For Work In Restricted Working Space, Add</i>	11.36	
40 05 23 23-0287	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	49.59	21.37
				<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0288	EA			2", 150#, Type 304 Stainless Steel Threaded Cap.....	63.02	27.09
				<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0289	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	96.11	40.13
				<i>For Work In Restricted Working Space, Add</i>	24.08	
40 05 23 23-0290	EA			3", 150#, Type 304 Stainless Steel Threaded Cap.....	127.52	52.78
				<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0291	EA			4", 150#, Type 304 Stainless Steel Threaded Cap.....	170.86	66.92
				<i>For Work In Restricted Working Space, Add</i>	40.13	
<b>40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions</b> <small>(40 05 23 23-0232)</small>						
40 05 23 23-0293	EA			1/2", 150#, Type 304 Stainless Steel Threaded Union.....	55.46	24.48
				<i>For Work In Restricted Working Space, Add</i>	14.68	
40 05 23 23-0294	EA			3/4", 150#, Type 304 Stainless Steel Threaded Union.....	72.99	32.41
				<i>For Work In Restricted Working Space, Add</i>	19.42	
40 05 23 23-0295	EA			1", 150#, Type 304 Stainless Steel Threaded Union.....	92.73	40.13
				<i>For Work In Restricted Working Space, Add</i>	24.08	
40 05 23 23-0296	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Union.....	133.13	55.78
				<i>For Work In Restricted Working Space, Add</i>	33.44	
40 05 23 23-0297	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Union.....	149.88	62.70
				<i>For Work In Restricted Working Space, Add</i>	37.62	
40 05 23 23-0298	EA			2", 150#, Type 304 Stainless Steel Threaded Union.....	196.52	83.57
				<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0299	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Union.....	330.19	125.41
				<i>For Work In Restricted Working Space, Add</i>	75.24	
40 05 23 23-0300	EA			3", 150#, Type 304 Stainless Steel Threaded Union.....	423.60	161.83
				<i>For Work In Restricted Working Space, Add</i>	97.09	
40 05 23 23-0301	EA			4", 150#, Type 304 Stainless Steel Threaded Union.....	429.83	133.78
				<i>For Work In Restricted Working Space, Add</i>	80.27	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0302			<b>150#, Type 304 Stainless Steel Threaded Couplings</b> (40 05 23 23-0232)		
40 05 23 23-0303	EA		1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	34.47	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0304	EA		3/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	45.71	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0305	EA		1", 150#, Type 304 Stainless Steel Threaded Coupling.....	58.83	27.09
			<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0306	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	81.62	37.12
			<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0307	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	95.91	43.64
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0308	EA		2", 150#, Type 304 Stainless Steel Threaded Coupling.....	117.84	52.78
			<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0309	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	194.08	83.57
			<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0310	EA		3", 150#, Type 304 Stainless Steel Threaded Coupling.....	250.48	107.84
			<i>For Work In Restricted Working Space, Add</i>	64.73	
40 05 23 23-0311	EA		4", 150#, Type 304 Stainless Steel Threaded Coupling.....	321.50	133.73
			<i>For Work In Restricted Working Space, Add</i>	80.26	
40 05 23 23-0312			<b>Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings</b> (40 05 23 23-0231)		
40 05 23 23-0313			<b>Type 316, Schedule 40 Stainless Steel Threaded Pipe</b> (40 05 23 23-0312)		
40 05 23 23-0314	LF		1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	17.07	4.31
			<i>For Work In Restricted Working Space, Add</i>	2.58	
40 05 23 23-0315	LF		3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	20.32	5.42
			<i>For Work In Restricted Working Space, Add</i>	3.24	
40 05 23 23-0316	LF		1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	25.53	6.52
			<i>For Work In Restricted Working Space, Add</i>	3.88	
40 05 23 23-0317	LF		1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	31.06	7.52
			<i>For Work In Restricted Working Space, Add</i>	4.53	
40 05 23 23-0318	LF		1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	36.05	8.53
			<i>For Work In Restricted Working Space, Add</i>	5.15	
40 05 23 23-0319	LF		2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	46.40	10.83
			<i>For Work In Restricted Working Space, Add</i>	6.47	
40 05 23 23-0320	LF		2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	62.81	12.84
			<i>For Work In Restricted Working Space, Add</i>	7.72	
40 05 23 23-0321	LF		3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	81.77	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0322	LF		4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	109.59	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0323			<b>150#, Type 316 Stainless Steel Threaded 90 Degree Elbows</b> (40 05 23 23-0312)		
40 05 23 23-0324	EA		1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	35.39	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0325	EA		3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	47.05	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0326	EA		1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	59.71	27.09
			<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0327	EA		1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	83.72	37.12
			<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0328	EA		1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	99.77	43.64
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0329	EA		2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	121.46	52.78
			<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0330	EA		2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	202.04	83.57
			<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0331	EA		3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	263.68	107.84
			<i>For Work In Restricted Working Space, Add</i>	64.73	
40 05 23 23-0332	EA		4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	355.61	133.73
			<i>For Work In Restricted Working Space, Add</i>	80.26	
40 05 23 23-0333			<b>150#, Type 316 Stainless Steel Threaded 45 Degree Elbows</b> (40 05 23 23-0312)		
40 05 23 23-0334	EA		1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	35.96	16.15
			<i>For Work In Restricted Working Space, Add</i>	9.71	
40 05 23 23-0335	EA		3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	47.41	21.37
			<i>For Work In Restricted Working Space, Add</i>	12.81	
40 05 23 23-0336	EA		1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	60.13	27.09
			<i>For Work In Restricted Working Space, Add</i>	16.27	
40 05 23 23-0337	EA		1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	83.60	37.12
			<i>For Work In Restricted Working Space, Add</i>	22.29	
40 05 23 23-0338	EA		1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	98.28	43.64
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0339	EA		2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	121.04	52.78
			<i>For Work In Restricted Working Space, Add</i>	31.68	
40 05 23 23-0340	EA		2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	207.66	83.57
			<i>For Work In Restricted Working Space, Add</i>	50.16	
40 05 23 23-0341	EA		3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	274.13	107.84
			<i>For Work In Restricted Working Space, Add</i>	64.73	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	377.45 80.26	133.73
<b>40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees</b> (40 05 23 23-0312)		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	52.84 14.68	24.48
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	70.48 19.42	32.41
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	87.47 24.08	40.13
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	125.88 33.44	55.78
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	142.88 37.62	62.70
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	189.70 50.16	83.57
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	294.34 72.53	120.89
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	398.68 97.09	161.83
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	523.58 120.39	200.65
<b>40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers</b> (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	46.25 12.81	21.37
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	60.11 16.27	27.09
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	80.51 22.29	37.12
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	97.49 26.17	43.64
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	122.89 31.68	52.78
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.73 50.16	83.57
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	266.80 64.73	107.84
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	352.18 80.26	133.73
<b>40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps</b> (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	18.15 4.85	8.13
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	23.82 6.47	10.83
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	30.21 8.03	13.35
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	44.65 11.36	18.96
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	51.40 12.81	21.37
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	65.38 16.27	27.09
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	100.03 24.08	40.13
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	131.50 31.68	52.78
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	178.75 40.13	66.92
<b>40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions</b> (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	56.36 14.68	24.48
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	76.37 19.42	32.41
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	94.44 24.08	40.13
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	136.04 33.44	55.78
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	153.27 37.62	62.70
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	200.45 50.16	83.57
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	336.22 75.24	125.41
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	442.40 97.09	161.83

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	469.89 80.27	133.78
<b>40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)</b>		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	35.88 9.71	16.15
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	46.37 12.81	21.37
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	59.46 16.27	27.09
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	82.62 22.29	37.12
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	97.10 26.17	43.64
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	119.50 31.68	52.78
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	199.86 50.16	83.57
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	257.93 64.73	107.84
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	332.67 80.26	133.73
<b>40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)</b>		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	15.57 2.52	4.20
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	18.57 3.08	5.14
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	24.40 3.62	6.07
40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	29.83 4.52	7.57
40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	33.21 5.09	8.50
40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	41.08 6.31	10.55
40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	48.97 7.21	12.05
40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	57.63 8.12	13.54
40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	72.12 9.61	16.07
40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	104.66 12.63	21.11
40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	173.71 23.37	36.38
40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	220.62 25.71	40.00
40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	263.38 28.57	44.47
40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	323.12 32.14	50.00
40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	356.18 36.73	57.14
40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	399.58 42.85	66.66
40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	552.32 51.43	79.99
40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	719.44 64.28	99.99
<b>40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)</b>		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	109.49 31.95	47.93
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	116.03 33.91	50.87
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	127.75 37.27	55.90
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	139.37 40.62	60.93
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.93 44.86	67.28
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	171.81 49.91	74.86
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	222.23 63.87	95.80
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	260.61 74.86	112.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	316.79 89.60	134.40
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	421.67 111.93	167.90
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	701.34 183.66	275.49
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,007.49 244.88	367.32
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,519.01 367.32	550.98
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,790.08 428.54	642.81
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,087.36 488.83	733.24
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,632.24 612.20	918.30
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,673.55 857.08	1,285.62
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	5,267.29 1,224.40	1,836.61
<b>40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow</b> <small>(40 05 23 23-0392)</small>		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	110.37 31.95	47.93
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	116.91 33.91	50.87
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	128.81 37.27	55.90
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	140.78 40.62	60.93
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	154.11 44.86	67.28
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	171.81 49.91	74.86
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	221.35 63.87	95.80
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	259.02 74.86	112.29
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	313.80 89.60	134.40
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	406.00 111.93	167.90
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	671.13 183.66	275.49
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	953.70 244.88	367.32
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,433.85 367.32	550.98
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,685.55 428.54	642.81
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,958.36 488.83	733.24
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,462.83 612.20	918.30
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,444.95 857.08	1,285.62
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	4,943.01 1,224.40	1,836.61
<b>40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee</b> <small>(40 05 23 23-0392)</small>		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	145.04 40.61	60.91
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	175.85 49.85	74.78
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	196.38 56.01	84.02
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	223.65 63.87	95.80
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	238.21 68.56	102.84
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	259.64 74.78	112.16
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	327.96 89.60	134.40
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	393.30 112.29	168.43
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	448.57 126.02	189.03
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	635.95 168.03	252.04

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	995.14 244.88	367.32
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,519.01 367.32	550.98
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,939.74 459.15	688.72
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,372.83 551.77	827.66
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,879.11 673.10	1,009.65
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	3,664.16 857.08	1,285.62
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	4,881.21 1,127.74	1,691.62
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	7,341.67 1,714.16	2,571.25
<b>40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)</b>		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	130.34 33.93	50.89
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	155.82 41.57	62.36
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	187.20 46.71	70.07
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	199.15 53.25	79.88
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	210.28 57.22	85.83
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	260.84 62.36	93.53
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	308.65 74.75	112.11
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	381.81 93.42	140.14
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	485.71 106.75	160.12
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	853.83 153.05	229.58
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,358.25 204.07	306.10
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,955.54 306.10	459.15
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,368.85 367.74	551.62
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,926.79 448.58	672.87
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	3,771.43 571.39	857.08
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	5,301.67 751.83	1,127.73
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	8,258.35 1,141.76	1,712.64
<b>40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)</b>		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	108.82 30.85	46.28
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	119.46 33.62	50.43
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	132.42 37.27	55.90
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	141.91 40.62	60.93
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	155.34 44.86	67.28
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	204.09 56.05	84.08
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	231.20 63.82	95.72
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	270.41 74.78	112.16
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	347.60 95.20	142.79
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	538.38 146.93	220.39
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	681.58 183.66	275.49
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	914.54 244.88	367.32
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,275.74 321.41	482.10
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,482.10 366.27	549.41





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,832.92 459.15	688.72
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,540.27 612.20	918.30
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,699.01 918.30	1,377.45
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	125.37 30.85	46.28
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	131.61 33.62	50.43
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	140.74 37.27	55.90
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	157.05 40.62	60.93
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	166.25 44.86	67.28
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	216.06 56.05	84.08
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	242.99 63.82	95.72
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	279.53 74.78	112.16
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	380.51 95.20	142.79
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	608.93 146.93	220.39
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	819.20 183.66	275.49
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,041.70 244.88	367.32
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,569.09 321.41	482.10
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,818.23 366.27	549.41
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,243.15 459.15	688.72
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,197.65 612.20	918.30
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,570.24 918.30	1,377.45
<b>40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps</b> <small>(40 05 23 23-0392)</small>		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	58.71 15.98	23.96
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	63.91 16.96	25.43
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	70.22 18.64	27.95
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	77.12 20.31	30.47
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	83.39 22.43	33.64
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	90.74 24.95	37.43
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	117.37 31.94	47.91
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	134.10 37.43	56.15
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	161.31 44.80	67.20
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	206.38 56.05	84.08
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	341.27 91.83	137.75
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	454.59 122.44	183.66
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	672.74 183.66	275.48
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	788.44 214.27	321.41
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	910.42 244.42	366.62
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,147.46 306.10	459.15
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,590.10 428.54	642.81
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,325.47 612.20	918.29
<b>40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings</b> <small>(40 05 23 23-0231)</small>		
<b>40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe</b> <small>(40 05 23 23-0541)</small>		



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	17.33	4.20
<i>For Work In Restricted Working Space, Add</i>	2.52	
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	21.06	5.14
<i>For Work In Restricted Working Space, Add</i>	3.08	
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	25.75	6.07
<i>For Work In Restricted Working Space, Add</i>	3.62	
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	32.18	7.47
<i>For Work In Restricted Working Space, Add</i>	4.52	
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	37.02	8.40
<i>For Work In Restricted Working Space, Add</i>	5.09	
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	47.36	10.75
<i>For Work In Restricted Working Space, Add</i>	6.31	
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	58.55	12.15
<i>For Work In Restricted Working Space, Add</i>	7.21	
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	57.46	13.54
<i>For Work In Restricted Working Space, Add</i>	8.12	
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	93.48	15.88
<i>For Work In Restricted Working Space, Add</i>	9.61	
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	144.74	21.02
<i>For Work In Restricted Working Space, Add</i>	12.63	
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	253.88	36.18
<i>For Work In Restricted Working Space, Add</i>	23.37	
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	320.33	40.00
<i>For Work In Restricted Working Space, Add</i>	25.71	
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	398.29	44.28
<i>For Work In Restricted Working Space, Add</i>	28.57	
<b>40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	110.20	47.93
<i>For Work In Restricted Working Space, Add</i>	31.95	
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	116.74	50.87
<i>For Work In Restricted Working Space, Add</i>	33.91	
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	128.28	55.90
<i>For Work In Restricted Working Space, Add</i>	37.27	
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	139.75	60.93
<i>For Work In Restricted Working Space, Add</i>	40.62	
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	154.28	67.28
<i>For Work In Restricted Working Space, Add</i>	44.86	
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	173.04	74.86
<i>For Work In Restricted Working Space, Add</i>	49.91	
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	226.80	95.80
<i>For Work In Restricted Working Space, Add</i>	63.87	
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	267.30	112.29
<i>For Work In Restricted Working Space, Add</i>	74.86	
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	328.05	134.40
<i>For Work In Restricted Working Space, Add</i>	89.60	
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	493.65	167.90
<i>For Work In Restricted Working Space, Add</i>	111.93	
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	799.43	275.49
<i>For Work In Restricted Working Space, Add</i>	183.66	
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	1,206.51	367.32
<i>For Work In Restricted Working Space, Add</i>	244.88	
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	1,777.14	550.98
<i>For Work In Restricted Working Space, Add</i>	367.32	
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	2,103.22	642.81
<i>For Work In Restricted Working Space, Add</i>	428.54	
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	2,489.64	733.24
<i>For Work In Restricted Working Space, Add</i>	488.83	
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	3,191.19	918.30
<i>For Work In Restricted Working Space, Add</i>	612.20	
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	4,363.45	1,285.62
<i>For Work In Restricted Working Space, Add</i>	857.08	
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow .....	6,251.55	1,836.61
<i>For Work In Restricted Working Space, Add</i>	1,224.40	
<b>40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	111.43	47.93
<i>For Work In Restricted Working Space, Add</i>	31.95	
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	117.97	50.87
<i>For Work In Restricted Working Space, Add</i>	33.91	
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	129.16	55.90
<i>For Work In Restricted Working Space, Add</i>	37.27	
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	140.65	60.93
<i>For Work In Restricted Working Space, Add</i>	40.62	
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	155.16	67.28
<i>For Work In Restricted Working Space, Add</i>	44.86	
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	173.23	74.86
<i>For Work In Restricted Working Space, Add</i>	49.91	
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow .....	226.80	95.80
<i>For Work In Restricted Working Space, Add</i>	63.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	262.37 74.86	112.29
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	330.69 89.60	134.40
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	433.63 111.93	167.90
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	736.51 183.66	275.49
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,049.32 244.88	367.32
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,545.25 367.32	550.98
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,764.11 428.54	642.81
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,085.89 488.83	733.24
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,627.91 612.20	918.30
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,603.39 857.08	1,285.62
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	5,212.02 1,224.40	1,836.61
<b>40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	145.74 40.61	60.91
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	176.55 49.85	74.78
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	197.08 56.01	84.02
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	225.44 63.87	95.80
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	238.91 68.56	102.84
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	260.52 74.78	112.16
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	330.34 89.60	134.40
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	396.99 112.29	168.43
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	452.62 126.02	189.03
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	663.93 168.03	252.04
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,078.20 244.88	367.32
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,773.92 367.32	550.98
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,208.52 459.15	688.72
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,914.42 551.77	827.66
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	3,669.80 673.10	1,009.65
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	4,737.71 857.08	1,285.62
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	6,140.47 1,127.74	1,691.62
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	9,386.86 1,714.16	2,571.25
<b>40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	132.63 33.93	50.89
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	158.11 41.57	62.36
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	198.21 46.71	70.07
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	202.49 53.25	79.88
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	210.28 57.22	85.83
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	249.59 62.36	93.53
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	283.83 74.75	112.11
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	368.79 93.42	140.14
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	487.82 106.75	160.12
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	779.13 153.05	229.58

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,381.62 204.07	306.10
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,002.30 306.10	459.15
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,303.24 367.74	551.62
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,844.62 448.58	672.87
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	3,664.28 571.39	857.08
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	5,141.20 751.83	1,127.73
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	8,002.79 1,141.76	1,712.64
<b>40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0641)</b>		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	110.58 30.85	46.28
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	121.22 33.62	50.43
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	132.55 37.27	55.90
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	143.67 40.62	60.93
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	156.39 44.86	67.28
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	204.09 56.05	84.08
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	224.86 63.82	95.72
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	261.40 74.78	112.16
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	349.01 95.20	142.79
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	568.27 146.93	220.39
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	732.90 183.66	275.49
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	960.35 244.88	367.32
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,378.54 321.41	482.10
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,611.33 366.27	549.41
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,094.61 459.15	688.72
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,848.95 612.20	918.30
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	4,018.68 918.30	1,377.45
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	126.08 30.85	46.28
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	135.30 33.62	50.43
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	153.41 37.27	55.90
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	163.56 40.62	60.93
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	176.28 44.86	67.28
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	216.06 56.05	84.08
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	264.82 63.82	95.72
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	294.32 74.78	112.16
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	395.12 95.20	142.79
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	610.46 146.93	220.39
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	817.87 183.66	275.49
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,110.89 244.88	367.32
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,747.54 321.41	482.10
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,983.75 366.27	549.41
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,576.41 459.15	688.72
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	3,362.12 612.20	918.30



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	5,299.23 918.30	1,377.45
<b>40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)</b>		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	59.23 15.98	23.96
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	63.38 16.96	25.43
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	70.74 18.64	27.95
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	79.48 20.31	30.47
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	85.68 22.43	33.64
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	90.56 24.95	37.43
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	116.19 31.94	47.91
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	134.80 37.43	56.15
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	163.42 44.80	67.20
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	219.40 56.05	84.08
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	362.18 91.83	137.75
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	484.16 122.44	183.66
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	729.10 183.66	275.48
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	840.06 214.27	321.41
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	981.43 244.42	366.62
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,231.62 306.10	459.15
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,702.33 428.54	642.81
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	2,513.12 612.20	918.29
<b>40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)</b>		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	17.81 2.52	4.20
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	21.15 3.08	5.14
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	28.26 3.62	6.07
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	34.44 4.52	7.57
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	38.28 5.09	8.50
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	47.34 6.31	10.55
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	56.75 7.21	12.05
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	67.17 8.12	13.54
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	84.64 9.61	16.07
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	124.20 12.63	21.11
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	203.63 23.37	36.38
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	262.75 25.71	40.00
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	315.89 28.57	44.47
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	390.56 32.14	50.00
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	429.18 36.73	57.14
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	479.76 42.85	66.66
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	671.27 51.43	79.99
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	877.21 64.28	99.99



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows</b> (40 05 23 23-0685)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	110.37 31.95	47.93
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	116.91 33.91	50.87
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	128.81 37.27	55.90
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	140.90 40.62	60.93
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	154.99 44.86	67.28
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	173.04 49.91	74.86
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	224.52 63.87	95.80
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	263.95 74.86	112.29
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	321.89 89.60	134.40
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	435.04 111.93	167.90
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	726.25 183.66	275.49
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,065.08 244.88	367.32
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,597.52 367.32	550.98
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,863.96 428.54	642.81
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,204.21 488.83	733.24
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,772.36 612.20	918.30
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,873.71 857.08	1,285.62
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	5,564.71 1,224.40	1,836.61
<b>40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows</b> (40 05 23 23-0685)		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	111.43 31.95	47.93
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	117.97 33.91	50.87
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	129.86 37.27	55.90
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	142.31 40.62	60.93
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	154.99 44.86	67.28
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	173.04 49.91	74.86
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	223.46 63.87	95.80
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	262.37 74.86	112.29
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	318.20 89.60	134.40
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	413.22 111.93	167.90
40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	687.09 183.66	275.49
40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,049.32 244.88	367.32
40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,545.25 367.32	550.98
40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,814.97 428.54	642.81
40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,114.41 488.83	733.24
40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,666.60 612.20	918.30
40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,778.69 857.08	1,285.62
40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	5,438.15 1,224.40	1,836.61
<b>40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees</b> (40 05 23 23-0685)		
40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee ..... <i>For Work In Restricted Working Space, Add</i>	147.33 40.61	60.91





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	178.14 49.85	74.78
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	198.67 56.01	84.02
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	227.88 63.87	95.80
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	241.55 68.56	102.84
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	262.64 74.78	112.16
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	318.37 89.60	134.40
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	399.11 112.29	168.43
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	456.49 126.02	189.03
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	658.65 168.03	252.04
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,054.82 244.88	367.32
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,633.63 367.32	550.98
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,091.61 459.15	688.72
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,654.43 551.77	827.66
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,151.82 673.10	1,009.65
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,007.28 857.08	1,285.62
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,381.58 1,127.74	1,691.62
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,780.52 1,714.16	2,571.25
<b>40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)</b>		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	135.79 33.93	50.89
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	162.33 41.57	62.36
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	195.13 46.71	70.07
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	204.60 53.25	79.88
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	217.84 57.22	85.83
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	283.72 62.36	93.53
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	288.06 74.75	112.11
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	381.81 93.42	140.14
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	518.27 106.75	160.12
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	948.50 153.05	229.58
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,673.97 204.07	306.10
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,224.50 306.10	459.15
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,547.05 367.74	551.62
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,149.96 448.58	672.87
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,062.46 571.39	857.08
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,737.48 751.83	1,127.73
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,952.47 1,141.76	1,712.64
<b>40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)</b>		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	110.41 30.85	46.28
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	121.40 33.62	50.43
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	135.24 37.27	55.90
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	143.14 40.62	60.93
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	156.39 44.86	67.28

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	203.35 56.05	84.08
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	235.42 63.82	95.72
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	262.66 74.78	112.16
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	356.23 95.20	142.79
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	547.40 146.93	220.39
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	702.69 183.66	275.49
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	939.45 244.88	367.32
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,310.04 321.41	482.10
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,514.58 366.27	549.41
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,880.66 459.15	688.72
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,614.04 612.20	918.30
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,829.80 918.30	1,377.45
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	124.09 30.85	46.28
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	137.65 33.62	50.43
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	154.50 37.27	55.90
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	165.67 40.62	60.93
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	170.30 44.86	67.28
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	222.57 56.05	84.08
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	255.14 63.82	95.72
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	289.39 74.78	112.16
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	402.16 95.20	142.79
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	646.95 146.93	220.39
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	874.13 183.66	275.49
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,117.35 244.88	367.32
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,647.41 321.41	482.10
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,922.34 366.27	549.41
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,387.28 459.15	688.72
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,424.28 612.20	918.30
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,792.02 918.30	1,377.45
<b>40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0885)</b>		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	60.99 15.98	23.96
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	66.90 16.96	25.43
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	73.38 18.64	27.95
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	80.18 20.31	30.47
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	87.09 22.43	33.64
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	92.85 24.95	37.43
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	116.70 31.94	47.91
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	137.79 37.43	56.15
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	165.00 44.80	67.20
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	212.89 56.05	84.08
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	352.86 91.83	137.75



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	468.67 122.44	183.66
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	693.34 183.66	275.48
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	807.01 214.27	321.41
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	926.11 244.42	366.62
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,165.44 306.10	459.15
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,618.78 428.54	642.81
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,413.77 612.20	918.29
<b>40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)</b>		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	20.31 2.52	4.20
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	24.66 3.08	5.14
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	30.32 3.62	6.07
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	37.90 4.52	7.47
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	43.72 5.09	8.40
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	56.17 6.31	10.75
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	70.09 7.21	12.15
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	67.62 8.12	13.54
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	114.04 9.61	15.88
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	179.08 12.63	21.02
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	312.74 23.37	36.18
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	398.82 25.71	40.00
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	499.66 28.57	44.28
<b>40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)</b>		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	111.25 31.95	47.93
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	117.79 33.91	50.87
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	129.69 37.27	55.90
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	141.29 40.62	60.93
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	155.87 44.86	67.28
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	175.15 49.91	74.86
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	231.03 63.87	95.80
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	273.10 74.86	112.29
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	341.96 89.60	134.40
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	505.44 111.93	167.90
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	861.01 183.66	275.49
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,359.70 244.88	367.32
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,953.92 367.32	550.98
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,200.35 428.54	642.81
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,643.39 488.83	733.24
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,364.66 612.20	918.30
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,570.36 857.08	1,285.62

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	6,616.27 1,224.40	1,836.61
<b>40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)</b>		
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	113.01 31.95	47.93
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	119.55 33.91	50.87
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	130.74 37.27	55.90
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	141.80 40.62	60.93
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	156.92 44.86	67.28
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	175.15 49.91	74.86
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	231.03 63.87	95.80
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	266.24 74.86	112.29
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	328.93 89.60	134.40
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	451.94 111.93	167.90
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	766.74 183.66	275.49
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,142.45 244.88	367.32
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,663.09 367.32	550.98
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,899.35 428.54	642.81
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,149.56 488.83	733.24
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,749.88 612.20	918.30
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,759.40 857.08	1,285.62
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,533.27 1,224.40	1,836.61
<b>40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)</b>		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	148.38 40.61	60.91
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	179.19 49.85	74.78
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	199.72 56.01	84.02
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	229.41 63.87	95.80
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	241.55 68.56	102.84
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	263.34 74.78	112.16
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	324.64 89.60	134.40
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	402.45 112.29	168.43
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	462.30 126.02	189.03
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	700.01 168.03	252.04
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,161.08 244.88	367.32
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,914.19 367.32	550.98
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,360.58 459.15	688.72
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,287.15 551.77	827.66
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,063.59 673.10	1,009.65
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,250.18 857.08	1,285.62
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,833.68 1,127.74	1,691.62
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,877.77 1,714.16	2,571.25
<b>40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	139.14 33.93	50.89
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	164.62 41.57	62.36
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	209.21 46.71	70.07
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	210.06 53.25	79.88
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	217.84 57.22	85.83
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	284.77 62.36	93.53
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	295.62 74.75	112.11
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	389.38 93.42	140.14
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	523.02 106.75	160.12
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	854.98 153.05	229.58
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	1,697.36 204.07	306.10
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,271.26 306.10	459.15
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	2,598.35 367.74	551.62
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	3,214.22 448.58	672.87
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	4,146.25 571.39	857.08
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	5,862.97 751.83	1,127.73
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee ..... <i>For Work In Restricted Working Space, Add</i>	9,152.33 1,141.76	1,712.64
<b>40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (#40 05 23 23-0834)</b>		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	113.22 30.85	46.28
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	124.21 33.62	50.43
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	136.52 37.27	55.90
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	146.31 40.62	60.93
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	158.33 44.86	67.28
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	209.54 56.05	84.08
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	228.56 63.82	95.72
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	265.10 74.78	112.16
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	357.46 95.20	142.79
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	584.23 146.93	220.39
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	772.06 183.66	275.49
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	989.25 244.88	367.32
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,404.90 321.41	482.10
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,615.53 366.27	549.41
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,132.83 459.15	688.72
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,883.77 612.20	918.30
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	4,170.40 918.30	1,377.45
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	133.11 30.85	46.28
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	142.34 33.62	50.43
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	163.65 37.27	55.90
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	171.13 40.62	60.93
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	184.73 44.86	67.28
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	222.57 56.05	84.08



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	279.42 63.82	95.72
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	308.75 74.78	112.16
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	429.09 95.20	142.79
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	637.83 146.93	220.39
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	889.91 183.66	275.49
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,224.94 244.88	367.32
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,800.89 321.41	482.10
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,071.41 366.27	549.41
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,756.01 459.15	688.72
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	3,561.79 612.20	918.30
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	5,340.16 918.30	1,377.45
<b>40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)</b>		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	61.35 15.98	23.96
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	66.73 16.96	25.43
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	73.74 18.64	27.95
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	83.44 20.31	30.47
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	84.45 22.43	33.64
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	95.31 24.95	37.43
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	119.90 31.94	47.91
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	138.32 37.43	56.15
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	168.88 44.80	67.20
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	229.08 56.05	84.08
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	383.28 91.83	137.75
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	513.43 122.44	183.66
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	766.54 183.66	275.48
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	877.95 214.27	321.41
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	989.66 244.42	366.62
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,258.49 306.10	459.15
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,735.92 428.54	642.81
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	2,641.88 612.20	918.29
<b>40 05 23 23-0978 Valves (40 05 23 23-0231)</b>		
<b>40 05 23 23-0979 Gate Valves, Class 150 (40 05 23 23-0978)</b>		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged ..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	491.86 18.06 -115.47 405.76	48.16
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged ..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	534.87 21.07 -124.29 436.76	50.16
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged ..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	659.99 28.40 -151.23 531.42	75.25
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged ..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	831.14 32.72 -193.16 678.76	87.79



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged	938.58	110.50
For Work In Restricted Working Space, Add	41.44	
For Class 200, Deduct	-214.12	
For Class 300, Add	752.42	
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged	1,114.48	133.73
For Work In Restricted Working Space, Add	50.16	
For Class 200, Deduct	-253.39	
For Class 300, Add	890.43	
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged	1,595.66	145.47
For Work In Restricted Working Space, Add	54.72	
For Class 300, Add	1,328.46	
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged	1,797.96	170.55
For Work In Restricted Working Space, Add	64.04	
For Class 300, Add	1,489.43	
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged	2,385.25	285.92
For Work In Restricted Working Space, Add	107.49	
For Class 300, Add	1,905.33	
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged	3,976.41	361.17
For Work In Restricted Working Space, Add	135.92	
For Class 300, Add	3,311.93	
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged	8,636.05	461.49
For Work In Restricted Working Space, Add	171.98	
For Class 300, Add	7,579.00	
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged	12,161.09	561.81
For Work In Restricted Working Space, Add	210.68	
For Class 300, Add	10,771.29	
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged	18,290.17	682.21
For Work In Restricted Working Space, Add	255.37	
For Class 300, Add	16,392.59	
<b>40 05 23 23-0993 Globe Valves, Class 150</b> (40 05 23 23-0978)		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged	669.98	48.16
For Work In Restricted Working Space, Add	18.06	
For Class 200, Deduct	-163.12	
For Class 300, Add	573.19	
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged	741.86	50.16
For Work In Restricted Working Space, Add	21.07	
For Class 200, Deduct	-179.66	
For Class 300, Add	631.33	
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged	925.35	75.25
For Work In Restricted Working Space, Add	28.40	
For Class 200, Deduct	-222.21	
For Class 300, Add	780.86	
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged	1,375.35	110.50
For Work In Restricted Working Space, Add	41.44	
For Class 200, Deduct	-330.96	
For Class 300, Add	1,162.99	
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged	1,678.40	133.73
For Work In Restricted Working Space, Add	50.16	
For Class 200, Deduct	-404.24	
For Class 300, Add	1,420.52	
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged	3,363.86	145.47
For Work In Restricted Working Space, Add	54.72	
For Class 300, Add	2,990.56	
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged	3,483.28	170.55
For Work In Restricted Working Space, Add	64.04	
For Class 300, Add	3,073.63	
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged	4,158.35	285.92
For Work In Restricted Working Space, Add	107.49	
For Class 300, Add	3,572.05	
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged	7,655.51	361.17
For Work In Restricted Working Space, Add	135.92	
For Class 300, Add	6,770.28	
<b>40 05 23 23-1003 Check Valves, Class 150</b> (40 05 23 23-0978)		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged	1,527.84	145.47
For Work In Restricted Working Space, Add	54.72	
For Class 300, Add	1,264.70	
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged	1,600.84	170.55
For Work In Restricted Working Space, Add	64.04	
For Class 300, Add	1,304.14	
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged	2,517.48	285.92
For Work In Restricted Working Space, Add	107.49	
For Class 300, Add	2,029.63	
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged	4,312.04	361.17
For Work In Restricted Working Space, Add	135.92	
For Class 300, Add	3,627.42	
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged	7,556.15	461.49
For Work In Restricted Working Space, Add	171.98	
For Class 300, Add	6,563.90	
<b>40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings</b> (40 05 23 23-0231)		

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting.....	75.55	29.13
For Work In Restricted Working Space, Add	19.42	
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting.....	99.84	38.83
For Work In Restricted Working Space, Add	25.89	
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting.....	123.13	48.16
For Work In Restricted Working Space, Add	32.11	
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting.....	176.44	68.14
For Work In Restricted Working Space, Add	45.43	
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting.....	195.77	76.84
For Work In Restricted Working Space, Add	51.23	
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting.....	245.41	97.61
For Work In Restricted Working Space, Add	65.08	
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting.....	429.93	150.49
For Work In Restricted Working Space, Add	100.33	
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting.....	572.52	192.11
For Work In Restricted Working Space, Add	128.07	
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting.....	750.45	240.77
For Work In Restricted Working Space, Add	160.52	
<b>40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)</b>		
<b>40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b>		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	48.28	16.18
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	60.83	21.57
For Work In Restricted Working Space, Add	12.95	
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	73.31	26.75
For Work In Restricted Working Space, Add	16.05	
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	100.83	37.86
For Work In Restricted Working Space, Add	22.72	
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	110.49	42.69
For Work In Restricted Working Space, Add	25.61	
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	141.36	54.22
For Work In Restricted Working Space, Add	32.54	
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	213.18	83.57
For Work In Restricted Working Space, Add	50.16	
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	261.55	170.55
For Work In Restricted Working Space, Add	64.04	
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	333.30	133.73
For Work In Restricted Working Space, Add	80.26	
<b>40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b>		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	57.48	16.18
For Work In Restricted Working Space, Add	9.71	
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	68.26	21.57
For Work In Restricted Working Space, Add	12.95	
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	78.61	26.75
For Work In Restricted Working Space, Add	16.05	
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	114.28	37.86
For Work In Restricted Working Space, Add	22.72	
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	123.94	42.69
For Work In Restricted Working Space, Add	25.61	
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	155.14	54.22
For Work In Restricted Working Space, Add	32.54	
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	243.95	83.57
For Work In Restricted Working Space, Add	50.16	
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	293.02	170.55
For Work In Restricted Working Space, Add	64.04	
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	381.75	133.73
For Work In Restricted Working Space, Add	80.26	
<b>40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	69.16	23.95
For Work In Restricted Working Space, Add	15.98	
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	74.20	25.43
For Work In Restricted Working Space, Add	16.96	
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange.....	82.63	27.95
For Work In Restricted Working Space, Add	18.64	
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	97.12	30.49
For Work In Restricted Working Space, Add	20.33	
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	104.04	33.60
For Work In Restricted Working Space, Add	22.40	
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	115.73	37.44
For Work In Restricted Working Space, Add	24.96	
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	155.54	47.87
For Work In Restricted Working Space, Add	31.91	
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange.....	178.30	56.05
For Work In Restricted Working Space, Add	37.37	
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	224.20	67.15
For Work In Restricted Working Space, Add	44.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	315.89 55.94	83.91
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	525.33 91.83	137.75
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	731.67 122.44	183.65
40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,117.13 183.66	275.48
40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,370.40 214.27	321.41
40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,670.96 244.42	366.62
40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,060.50 306.10	459.15
40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,724.35 428.54	642.81
40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,877.05 612.20	918.29
<b>40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	80.13 15.98	23.95
40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	83.40 16.96	25.43
40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	89.01 18.64	27.95
40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	109.48 20.33	30.49
40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	116.40 22.40	33.60
40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	126.34 24.96	37.44
40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	173.92 31.91	47.87
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	198.81 37.37	56.05
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	272.28 44.77	67.15
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	370.34 55.94	83.91
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	661.11 91.83	137.75
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	910.95 122.44	183.65
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,344.86 183.66	275.48
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,730.40 214.27	321.41
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,101.48 244.42	366.62
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,673.53 306.10	459.15
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,508.70 428.54	642.81
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,088.44 612.20	918.29
<b>40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	120.64 31.95	47.92
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	127.54 33.91	50.86
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	140.15 37.27	55.90
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	157.08 40.65	60.98
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	170.94 44.81	67.21
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	194.34 49.92	74.87
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	252.02 63.83	95.74
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	291.20 74.73	112.09
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	355.77 89.54	134.32
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	460.27 111.88	167.80
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	777.34 183.66	275.48
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,072.63 244.88	367.32

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,603.10 367.32	550.97
<b>40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	127.72 31.95	47.92
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	134.26 33.91	50.86
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	145.46 37.27	55.90
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	168.05 40.65	60.98
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	181.91 44.81	67.21
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	201.75 49.92	74.87
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	279.61 63.83	95.74
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	318.78 74.73	112.09
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	393.95 89.54	134.32
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	568.11 111.88	167.80
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	886.24 183.66	275.48
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,248.02 244.88	367.32
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,828.70 367.32	550.97
<b>40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	36.39 6.39	9.58
40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	38.16 6.78	10.17
40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	41.48 7.46	11.17
40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	51.36 8.30	12.44
40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	61.06 11.21	16.82
40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	70.84 12.44	18.66
40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	95.06 16.00	24.00
40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	120.71 22.42	33.63
40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	188.90 37.36	56.04
40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	254.19 48.04	72.05
40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	362.67 57.14	85.71
40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	527.70 68.57	102.85
40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	690.57 85.71	128.56
40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	875.03 107.13	160.70
40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,104.15 122.21	183.31
40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,318.73 153.05	229.58
40 05 23 23-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,768.72 214.27	321.41
40 05 23 23-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,566.66 306.10	459.15
<b>40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	43.59 6.39	9.58
40 05 23 23-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	44.90 6.78	10.17
40 05 23 23-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	47.14 7.46	11.17
40 05 23 23-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	58.07 8.30	12.44
40 05 23 23-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	67.77 11.21	16.82





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	74.38 12.44	18.66
40 05 23 23-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	119.81 16.00	24.00
40 05 23 23-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	143.87 22.42	33.63
40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	217.89 37.36	56.04
40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	373.70 48.04	72.05
40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	505.52 57.14	85.71
40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	701.66 68.57	102.85
40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	957.54 85.71	128.56
40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,320.30 107.13	160.70
40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,666.32 122.21	183.31
40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,164.79 153.05	229.58
40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,772.52 214.27	321.41
40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,217.67 306.10	459.15
<b>40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23-1019)</b>		
40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	54.66 9.71	16.18
40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	68.97 12.95	21.57
40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	81.07 16.05	26.75
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	112.49 22.72	37.86
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	122.15 25.61	42.69
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	154.09 32.54	54.22
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	231.57 50.16	83.57
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	285.25 64.04	170.55
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	366.54 80.26	133.73
<b>40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23-1019)</b>		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	66.68 9.71	16.18
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	77.46 12.95	21.57
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	87.81 16.05	26.75
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	131.96 22.72	37.86
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	141.62 25.61	42.69
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	170.70 32.54	54.22
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	278.95 50.16	83.57
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	328.74 64.04	170.55
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange ..... <i>For Work In Restricted Working Space, Add</i>	438.67 80.26	133.73
<b>40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23-1019)</b>		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	77.29 15.98	23.95
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	82.34 16.96	25.43
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	91.83 18.64	27.95
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	109.14 20.33	30.49
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	116.06 22.40	33.60
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	128.10 24.96	37.44

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	176.39 31.91	47.87
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	197.04 37.37	56.05
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	256.02 44.77	67.15
40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	371.06 55.94	83.91
40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	610.55 91.83	137.75
40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	873.83 122.44	183.65
40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,304.91 183.66	275.48
40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,525.92 214.27	321.41
40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,873.91 244.42	366.62
40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,307.03 306.10	459.15
40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,031.49 428.54	642.81
40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,312.30 612.20	918.29
<b>40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>		
40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	90.73 15.98	23.95
40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	94.00 16.96	25.43
40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	99.61 18.64	27.95
40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	124.00 20.33	30.49
40 05 23 23-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	130.92 22.40	33.60
40 05 23 23-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	144.02 24.96	37.44
40 05 23 23-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	204.33 31.91	47.87
40 05 23 23-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	227.45 37.37	56.05
40 05 23 23-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	325.31 44.77	67.15
40 05 23 23-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	501.53 55.94	83.91
40 05 23 23-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	795.14 91.83	137.75
40 05 23 23-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,128.06 122.44	183.65
40 05 23 23-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,663.80 183.66	275.48
40 05 23 23-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,194.28 214.27	321.41
40 05 23 23-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,688.89 244.42	366.62
40 05 23 23-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,428.22 306.10	459.15
40 05 23 23-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,458.34 428.54	642.81
40 05 23 23-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange ..... <i>For Work In Restricted Working Space, Add</i>	6,479.76 612.20	918.29
<b>40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	124.89 31.95	47.92
40 05 23 23-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	133.92 33.91	50.86
40 05 23 23-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	147.46 37.27	55.90
40 05 23 23-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	183.73 40.65	60.98
40 05 23 23-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	179.43 44.81	67.21
40 05 23 23-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	196.45 49.92	74.87
40 05 23 23-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	250.61 63.83	95.74
40 05 23 23-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	303.22 74.73	112.09
40 05 23 23-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	381.22 89.54	134.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	498.09 111.88	167.80
40 05 23 23-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	855.47 183.66	275.48
40 05 23 23-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,179.42 244.88	367.32
40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,745.95 367.32	550.97
<b>40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges</b> (40 05 23 23-1019)		
40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	134.79 31.95	47.92
40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	141.33 33.91	50.86
40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	152.53 37.27	55.90
40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	181.83 40.65	60.98
40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	195.69 44.81	67.21
40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	214.79 49.92	74.87
40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	310.37 63.83	95.74
40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	350.24 74.73	112.09
40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	442.74 89.54	134.32
40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	639.19 111.88	167.80
40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	959.44 183.66	275.48
40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,486.34 244.88	367.32
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,038.74 367.32	550.97
<b>40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges</b> (40 05 23 23-1019)		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	39.69 6.39	9.58
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	44.18 6.78	10.17
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	49.60 7.46	11.17
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	57.72 8.30	12.44
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	67.42 11.21	16.82
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	81.45 12.44	18.66
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	111.68 16.00	24.00
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	139.10 22.42	33.63
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	220.01 37.36	56.04
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	304.05 48.04	72.05
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	481.82 57.14	85.71
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	621.76 68.57	102.85
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	961.79 85.71	128.56
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,152.71 107.13	160.70
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,477.71 122.21	183.31
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,752.23 153.05	229.58
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,334.06 214.27	321.41
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,395.70 306.10	459.15
<b>40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges</b> (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	55.61 6.39	9.58
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	56.92 6.78	10.17

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	59.16 7.46	11.17
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	83.90 8.30	12.44
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	93.60 11.21	16.82
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	103.72 12.44	18.66
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	165.08 16.00	24.00
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	190.02 22.42	33.63
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	295.68 37.36	56.04
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	506.32 48.04	72.05
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	642.73 57.14	85.71
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,100.53 68.57	102.85
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,345.44 85.71	128.56
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,916.10 107.13	160.70
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,445.06 122.21	183.31
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,188.27 153.05	229.58
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,045.70 214.27	321.41
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	6,195.42 306.10	459.15
<b>40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23)</b> Note: For high pressure air (8000 PSIG working pressure).		
<b>40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)</b>		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness.....	17.68	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness.....	21.81	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness.....	26.34	
<b>40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268)</b> Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	59.09	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	63.49	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules.....	97.42	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	51.00	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	84.25	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	64.64	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	78.61	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules .....	120.92	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	76.63	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	118.88	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	76.22	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	97.88	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules .....	161.22	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	132.59	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	163.81	
<b>40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)</b>		
<b>40 05 23 23-1290 Needle Valves (40 05 23 23-1289)</b>		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....	292.60	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....	462.86	
<b>40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)</b>		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	280.10	
<b>40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)</b>		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,151.29	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back.....	291.22	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	57.79	



<b>Process Interconnections</b>	<b>40</b>	<b>40</b>
Common Work Results For Process Interconnections	40 05	
Stainless Steel Process Pipe and Tubing	40 05 23	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**END OF SECTION 40**



**40 Process Interconnections**

40 05 Common Work Results For Process Interconnections

40 05 23 Stainless Steel Process Pipe and Tubing



MINOR	DESCRIPTION
CSI	UOM

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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<b>Process Gas and Liquid Handling, Purification, and Storage Equipment</b>	<b>43</b>	<b>43</b>
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>43 Process Gas and Liquid Handling, Purification, and Storage Equipment</b>		
43 20 Liquid Handling Equipment <sup>(43)</sup>		
43 23 Dry Location Liquid Pumps <sup>(43 20)</sup>		
<b>43 23 78 Controlled Volume Horizontal Reciprocating Pumps <sup>(43 23)</sup></b>		
<b>43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps <sup>(43 23 78)</sup></b>		
43 23 78 31-0001 Diaphragm Pump <sup>(43 23 78 31)</sup>		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI .....	2,845.18	
43 24 Suspended Liquid Pumps <sup>(43 20)</sup>		
<b>43 24 41 Archimedes Screw Pumps <sup>(43 24)</sup></b>		
<b>43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps <sup>(43 24 41)</sup></b>		
43 24 41 23-0001 Positive Displacement Pump <sup>(43 24 41 23)</sup>		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing .....	2,353.20	
43 40 Gas and Liquid Storage <sup>(43)</sup>		
43 42 Pressurized Tanks And Vessels <sup>(43 40)</sup>		
<b>43 42 41 Metallic Specialty Pressure Tanks <sup>(43 42)</sup></b>		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls <sup>(43 42 41)</sup>		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank .....	1,292.78	106.89
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank .....	2,371.76	160.32
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank .....	3,365.23	171.01

**END OF SECTION 43**

**43 Process Gas and Liquid Handling, Purification, and Storage Equipment**

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 50 Custom Standards And Assemblies

### 50 89 CALTRANS Custom Standards And Assemblies <sup>(50)</sup>

#### 50 89 80 CALTRANS Construction Performance Requirements <sup>(50 89)</sup>

Note: Refer to [www.dot.ca.gov](http://www.dot.ca.gov) for CALTRANS Standard Plans and Specifications

#### 50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS <sup>(50 89 80)</sup>

##### 50 89 81 01 PAYMENT <sup>(50 89 81)</sup>

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0050 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION.....	0.00
Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.			

#### 50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION <sup>(50 89 80)</sup>

##### 50 89 82 12 TEMPORARY TRAFFIC CONTROL <sup>(50 89 82)</sup>

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN.....	841.09
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE.....	27.37
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE.....	8.32
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE.....	51.88
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE).....	45.82
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT).....	2.48
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE).....	3.49
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE).....	8.22
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT).....	0.54
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED).....	22.40
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE).....	44.41
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR.....	15.67
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS.....	24.34
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE).....	27.77
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER.....	2.36
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA).....	1,681.13
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE.....	415.38

##### 50 89 82 13 WATER POLLUTION CONTROL <sup>(50 89 82)</sup>

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN.....	540.00
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY.....	420.17
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT.....	2,160.00
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET.....	3.12
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL).....	753.71
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH.....	4.07
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH.....	0.87
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX).....	0.31
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER).....	10.73
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW.....	0.26
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED.....	0.87
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER.....	0.40
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER.....	5.82
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION.....	68.81
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL.....	7.91
Note: 12" Diameter, Type 1			
For >1,000 To 10,000, Deduct			-0.80
For >10,000, Deduct			-1.36
For 9" Diameter, Deduct			-0.86
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL.....	6.42
Note: 12" Diameter, Type 2			
For >1,000 To 10,000, Deduct			-0.58
For >10,000, Deduct			-0.99
For 9" Diameter, Deduct			-0.86
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM.....	9.40
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE.....	8.20
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE.....	2.31
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER.....	4.30
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE.....	1,627.05
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY.....	38.59
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY.....	420.17
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT.....	742.50
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT.....	795.00

#### 50 89 83 CALTRANS DIVISION III - GRADING <sup>(50 89 80)</sup>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**50 89 83 17****GENERAL** (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001	ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....	10,467.81
	Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill	

**50 89 83 19****EARTHWORK** (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY CALTRANS 190101 ROADWAY EXCAVATION.....	16.73
	For >1,000, Deduct	-2.51
50 89 83 19-0002	CY CALTRANS 190161 ROCK EXCAVATION.....	26.36
50 89 83 19-0003	TON CALTRANS 190185 SHOULDER BACKING.....	103.61
50 89 83 19-0004	CY CALTRANS 192502 SAND BEDDING.....	37.15
	For Up To 8, Add	7.43
	For >8 To 16, Add	3.72
	For >48 To 64, Deduct	-2.48
	For >64 To 96, Deduct	-4.33
	For >96, Deduct	-6.19
50 89 83 19-0005	CY CALTRANS 193118 CONCRETE BACKFILL.....	214.76
50 89 83 19-0006	CY CALTRANS 198010 IMPORTED BORROW (CY).....	66.62
50 89 83 19-0007	TON CALTRANS 198011 IMPORTED BORROW (TON).....	93.26
50 89 83 19-0008	SY CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1.....	2.75
	For Up To 50, Add	0.60
	For >50 To 150, Add	0.44
	For >150 To 250, Add	0.29
	For >250 To 500, Add	0.15
50 89 83 19-0009	SY CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2.....	1.16
	For Up To 50, Add	0.27
	For >50 To 150, Add	0.20
	For >150 To 250, Add	0.13
	For >250 To 500, Add	0.06
50 89 83 19-0010	SY CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1.....	3.19
	For Up To 50, Add	0.68
	For >50 To 150, Add	0.51
	For >150 To 250, Add	0.33
	For >250 To 500, Add	0.17
50 89 83 19-0011	SY CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2.....	1.57
	For Up To 50, Add	0.35
	For >50 To 150, Add	0.26
	For >150 To 250, Add	0.17
	For >250 To 500, Add	0.08
50 89 83 19-0012	SY CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3.....	1.50
	For Up To 50, Add	0.35
	For >50 To 150, Add	0.26
	For >150 To 250, Add	0.17
	For >250 To 500, Add	0.08
50 89 83 19-0013	SY CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID.....	2.53
	For Up To 50, Add	0.60
	For >50 To 150, Add	0.44
	For >150 To 250, Add	0.28
	For >250 To 500, Add	0.14
50 89 83 19-0014	SY CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT.....	1.96

**50 89 83 20****LANDSCAPE** (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF CALTRANS 200114 ROCK BLANKET.....	12.06
	For >5,000, Deduct	-1.66
50 89 83 20-0002	SY CALTRANS 200122 WEED GERMINATION.....	0.55
50 89 83 20-0003	SY CALTRANS 200123 CULTIVATION.....	2.41
50 89 83 20-0004	LB CALTRANS 202004 IRON SULFATE (LB).....	6.13
50 89 83 20-0005	CY CALTRANS 202006 SOIL AMENDMENT.....	83.25
50 89 83 20-0006	EA CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY.....	923.52
50 89 83 20-0007	EA CALTRANS 202027 RELOCATE WATER METER.....	923.52
50 89 83 20-0008	EA CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER.....	1,178.96
50 89 83 20-0009	LB CALTRANS 202037 ORGANIC FERTILIZER.....	6.22
50 89 83 20-0010	EA CALTRANS 202038 PACKET FERTILIZER.....	0.90
50 89 83 20-0011	LB CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	2.99
50 89 83 20-0012	EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	381.38
50 89 83 20-0013	EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	715.49





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B) .....	1,117.13	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B) .....	1,751.62	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E).....	1.88	
<i>For &gt;100 To 1,000, Deduct</i>	-0.12	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.19	
<i>For &gt;5,000, Deduct</i>	-0.23	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F).....	1.70	
<i>For &gt;100 To 1,000, Deduct</i>	-0.11	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.18	
<i>For &gt;5,000, Deduct</i>	-0.23	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H) .....	5.53	
<i>For &gt;10 To 100, Deduct</i>	-0.55	
<i>For &gt;100 To 1,000, Deduct</i>	-1.24	
<i>For &gt;1,000 To 10,000, Deduct</i>	-1.94	
<i>For &gt;10,000 To 25,000, Deduct</i>	-2.77	
<i>For &gt;25,000, Deduct</i>	-3.87	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I).....	18.72	
<i>For &gt;100 To 1,000, Deduct</i>	-1.30	
<i>For &gt;1,000 To 5,000, Deduct</i>	-2.14	
<i>For &gt;5,000, Deduct</i>	-2.61	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K).....	528.31	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M).....	5.42	
<i>For &gt;100 To 1,000, Deduct</i>	-0.33	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.52	
<i>For &gt;5,000, Deduct</i>	-0.65	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S).....	6.47	
<i>For &gt;100 To 1,000, Deduct</i>	-0.42	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.68	
<i>For &gt;5,000, Deduct</i>	-0.84	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P).....	5.06	
<i>For &gt;100 To 1,000, Deduct</i>	-0.30	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.47	
<i>For &gt;5,000, Deduct</i>	-0.60	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE .....	3,226.47	
<i>For &gt;5 To 10, Deduct</i>	-161.32	
<i>For &gt;10 To 20, Deduct</i>	-322.65	
<i>For &gt;20, Deduct</i>	-483.97	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A).....	24.86	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B).....	62.90	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U) .....	162.54	
50 89 83 20-0028 SY CALTRANS 204045 SOD .....	30.23	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH.....	0.96	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE .....	1.42	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH.....	95.88	
<i>For &gt;5 To 20, Deduct</i>	-7.69	
<i>For &gt;20 To 50, Deduct</i>	-11.53	
<i>For &gt;50, Deduct</i>	-16.33	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR .....	30.33	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR .....	22.14	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER.....	8.72	
50 89 83 20-0035 LF CALTRANS 206005 EDGING .....	11.58	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE .....	317.63	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE .....	449.76	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE .....	483.21	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE .....	519.52	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE .....	567.34	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE .....	830.41	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE .....	1,093.48	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR .....	619.77	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY .....	286.36	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY .....	312.02	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY .....	349.72	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY .....	372.65	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY .....	448.53	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY .....	693.49	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY .....	697.78	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	548.96	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	804.14	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	1,123.23	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	1,462.58	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	1,893.72	
50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....	2,323.58	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE) .....	7.76	
<i>For &gt;1,000, Deduct</i>	-0.39	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE) .....	9.85	
<i>For &gt;1,000, Deduct</i>	-0.49	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE) .....	12.04	
<i>For &gt;1,000, Deduct</i>	-0.60	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE) .....	15.61	
<i>For &gt;1,000, Deduct</i>	-0.78	
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE) .....	18.62	
<i>For &gt;1,000, Deduct</i>	-0.93	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE) .....	24.79	
<i>For &gt;1,000, Deduct</i>	-1.24	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	47.49	
<i>For &gt;1,000, Deduct</i>	-2.37	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	72.93	
<i>For &gt;1,000, Deduct</i>	-3.65	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	31.90	
<i>For &gt;1,000, Deduct</i>	-1.60	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	9.49	
<i>For &gt;1,000, Deduct</i>	-0.47	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	10.78	
<i>For &gt;1,000, Deduct</i>	-0.54	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	12.41	
<i>For &gt;1,000, Deduct</i>	-0.62	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	14.36	
<i>For &gt;1,000, Deduct</i>	-0.72	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	16.66	
<i>For &gt;1,000, Deduct</i>	-0.83	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	20.83	
<i>For &gt;1,000, Deduct</i>	-1.04	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	30.77	
<i>For &gt;1,000, Deduct</i>	-1.54	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	43.47	
<i>For &gt;1,000, Deduct</i>	-2.17	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	64.25	
<i>For &gt;1,000, Deduct</i>	-3.21	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	35.80	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	43.42	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	52.34	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	75.98	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	189.24	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	429.41	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	26.75	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	38.24	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	46.59	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	70.81	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	1.84	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	1.94	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	2,543.31	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	1,334.58	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	1,413.88	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	1,848.10	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	2,013.84	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	2,687.80	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	5,759.06	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	6,672.30	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	7,263.83	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	1,855.62	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,007.73	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	56.54	11.08
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	38.36	11.08
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	37.84	11.08
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	361.33	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	257.13	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	273.79	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	300.57	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	332.90	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	356.34	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	407.98	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	675.96	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	750.14	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,004.87	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	1,360.19	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	1,974.28	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.07	
<i>For &gt;1,000, Deduct</i>	-0.25	
<i>For Schedule 80, Add</i>	0.13	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.20	
<i>For &gt;1,000, Deduct</i>	-0.26	
<i>For Schedule 80, Add</i>	0.16	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.86	
<i>For &gt;1,000, Deduct</i>	-0.29	
<i>For Schedule 80, Add</i>	0.26	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.96	
<i>For &gt;1,000, Deduct</i>	-0.35	
<i>For Schedule 80, Add</i>	0.39	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.12	
<i>For &gt;1,000, Deduct</i>	-0.36	
<i>For Schedule 80, Add</i>	0.51	
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.41	
<i>For &gt;1,000, Deduct</i>	-0.42	
<i>For Schedule 80, Add</i>	0.87	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	10.15	
<i>For &gt;1,000, Deduct</i>	-0.51	
<i>For Schedule 80, Add</i>	1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) .....	13.20	
<i>For &gt;1,000, Deduct</i>	-0.66	
<i>For Schedule 80, Add</i>	1.57	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) .....	16.59	
<i>For &gt;1,000, Deduct</i>	-0.83	
<i>For Schedule 80, Add</i>	2.41	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) .....	22.66	
<i>For &gt;1,000, Deduct</i>	-1.13	
<i>For Schedule 80, Add</i>	5.36	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) .....	27.22	
<i>For &gt;1,000, Deduct</i>	-1.36	
<i>For Schedule 80, Add</i>	8.22	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) .....	54.77	
<i>For &gt;1,000, Deduct</i>	-2.74	
<i>For Schedule 80, Add</i>	25.56	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE) .....	8.86	
<i>For &gt;1,000, Deduct</i>	-0.44	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE) .....	10.87	
<i>For &gt;1,000, Deduct</i>	-0.54	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE) .....	13.20	
<i>For &gt;1,000, Deduct</i>	-0.66	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE) .....	16.59	
<i>For &gt;1,000, Deduct</i>	-0.83	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE) .....	22.98	
<i>For &gt;1,000, Deduct</i>	-1.15	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE .....	751.31	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE .....	1,118.24	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE .....	890.60	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE .....	1,270.71	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4") .....	252.98	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1") .....	334.02	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4") .....	575.25	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2") .....	781.52	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2") .....	1,119.36	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE .....	385.43	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE .....	270.47	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE .....	290.48	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE .....	317.93	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE .....	360.18	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE .....	404.46	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE .....	462.66	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE .....	734.23	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE .....	780.42	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE .....	1,128.97	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE .....	1,621.33	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE .....	3,279.47	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE .....	237.06	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE .....	258.99	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE .....	266.87	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE .....	293.68	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE .....	307.45	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE .....	336.60	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE .....	378.82	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE) .....	27.22	
<i>For &gt;1,000, Deduct</i>	-1.36	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT .....	22.74	
<i>For &gt;1,000, Deduct</i>	-1.14	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT .....	28.68	
<i>For &gt;1,000, Deduct</i>	-1.43	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT .....	20.10	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT .....	25.61	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT .....	29.79	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK) .....	20.39	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK) .....	25.23	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK) .....	31.21	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK) .....	35.12	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT .....	18.34	
<i>For &gt;1,000, Deduct</i>	-0.92	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT .....	21.18	
<i>For &gt;1,000, Deduct</i>	-1.06	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT .....	24.37	
<i>For &gt;1,000, Deduct</i>	-1.22	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT .....	31.72	
<i>For &gt;1,000, Deduct</i>	-1.59	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT .....	41.43	
<i>For &gt;1,000, Deduct</i>	-2.07	
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT .....	56.42	
<i>For &gt;1,000, Deduct</i>	-2.82	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT .....	79.43	
<i>For &gt;1,000, Deduct</i>	-3.97	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT .....	102.22	
<i>For &gt;1,000, Deduct</i>	-5.11	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT .....128.33  
For >1,000, Deduct -6.42

### 50 89 83 21 EROSION CONTROL (50 89 83)

Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.

50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL) .....301.49  
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY) .....66.62  
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON) .....83.26  
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT) .....0.10  
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE) .....4,576.09  
For >5 To 20, Deduct -309.04  
For >20 To 45, Deduct -583.91  
For >45, Deduct -939.01  
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD) .....0.44  
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE) .....2,151.15  
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT) .....0.08  
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE) .....3,143.99  
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH) .....0.20  
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING) .....0.91  
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET) .....0.29  
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM) .....1.03  
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH .....0.10  
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL .....7.91  
Note: 12" Diameter, Type 1  
For >1,000 To 10,000, Deduct -0.80  
For >10,000, Deduct -1.36  
For 9" Diameter, Deduct -0.86  
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL .....6.42  
Note: 12" Diameter, Type 2  
For >1,000 To 10,000, Deduct -0.58  
For >10,000, Deduct -0.99  
For 9" Diameter, Deduct -0.86  
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK .....7.37  
50 89 83 21-0018 SF CALTRANS 210420 STRAW .....0.19  
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED .....0.10  
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY) .....69.63  
For >100 To 1,000, Deduct -12.17  
For >1,000, Deduct -18.55  
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS .....0.04

### 50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)

#### 50 89 84 24 STABILIZED SOILS (50 89 84)

50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL .....11.36  
For 4% Lime Instead Of 5%, Deduct -0.36  
For 6% Lime Instead Of 5%, Add 0.36  
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL .....10.07

#### 50 89 84 25 AGGREGATE SUBBASES (50 89 84)

Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE .....97.97  
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE .....71.94  
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE .....69.33  
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE .....69.30  
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE .....69.27

#### 50 89 84 26 AGGREGATE BASES (50 89 84)

Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE .....97.94  
For Recycled Aggregate Base, Deduct -7.07  
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON) .....70.68  
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY) .....71.94  
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON) .....67.11  
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY) .....69.33

#### 50 89 84 27 CEMENT TREATED BASES (50 89 84)

Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.

50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON) .....39.70  
For Up To 500, Add 11.71  
For >500 To 1,000, Add 3.97  
For >5,000 To 10,000, Deduct -1.51  
For >10,000, Deduct -2.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	53.41	
<i>For Up To 500, Add</i>	15.78	
<i>For &gt;500 To 1,000, Add</i>	5.34	
<i>For &gt;5,000 To 10,000, Deduct</i>	-2.03	
<i>For &gt;10,000, Deduct</i>	-3.47	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	32.01	
<i>For Up To 500, Add</i>	9.41	
<i>For &gt;500 To 1,000, Add</i>	3.20	
<i>For &gt;5,000 To 10,000, Deduct</i>	-1.22	
<i>For &gt;10,000, Deduct</i>	-2.08	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	45.73	
<i>For Up To 500, Add</i>	13.47	
<i>For &gt;500 To 1,000, Add</i>	4.57	
<i>For &gt;5,000 To 10,000, Deduct</i>	-1.74	
<i>For &gt;10,000, Deduct</i>	-2.97	
<b>50 89 84 28 CONCRETE BASES (50 89 84)</b>		
Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE.....	225.72	
<b>50 89 84 29 TREATED PERMEABLE BASES (50 89 84)</b>		
Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE.....	689.41	
<i>For &gt;5,000 To 30,000, Deduct</i>	-75.89	
<i>For &gt;30,000 To 100,000, Deduct</i>	-141.48	
<i>For &gt;100,000, Deduct</i>	-175.64	
<b>50 89 84 30 RECLAIMED PAVEMENT (50 89 84)</b>		
Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT.....	17.72	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED.....	3.91	
<b>50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)</b>		
<b>50 89 85 37 BITUMINOUS SEALS (50 89 85)</b>		
Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL).....	0.90	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT).....	0.45	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT.....	4,982.58	
50 89 85 37-0004 SY CALTRANS 374491 NONPOLYMER ASPHALTIC EMULSION (SEAL COAT).....	2.61	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT).....	4.44	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS.....	69.84	
<i>For Up To 14, Add</i>	19.38	
<i>For &gt;14 To 35, Add</i>	6.98	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL).....	0.80	
<i>For Up To 150, Add</i>	0.17	
<i>For &gt;150 To 300, Add</i>	0.08	
<i>For &gt;300 To 500, Add</i>	0.04	
<i>For &gt;3,500 To 5,000, Deduct</i>	-0.02	
<i>For &gt;5,000, Deduct</i>	-0.05	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I).....	1.65	
Note: 1/8" thick.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.11	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II).....	2.16	
Note: 1/4" thick, 14 to 18 Lbs/SY.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.16	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III).....	2.73	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.26	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING.....	5.08	
<b>50 89 85 39 ASPHALT CONCRETE (50 89 85)</b>		
Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT.....	976.26	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A).....	31.53	
50 89 85 39-0003 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25).....	246.24	
50 89 85 39-0004 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100).....	216.47	
50 89 85 39-0005 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250).....	185.94	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250).....	158.04	
50 89 85 39-0007 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25).....	252.04	
50 89 85 39-0008 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED).....	152.99	
Note: Includes placement, rolling, finishing and sweeping.		



**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0009	SY		CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....0.99 Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Nonwoven Polypropylene		
			For Up To 50, Add	0.23	
			For >50 To 150, Add	0.17	
			For >150 To 250, Add	0.11	
			For >250 To 500, Add	0.06	
50 89 85 39-0010	LF		CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....8.13		
50 89 85 39-0011	LF		CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....5.90		
50 89 85 39-0012	LF		CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....3.05		
50 89 85 39-0013	LF		CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....13.05		
50 89 85 39-0014	LF		CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....8.45		
50 89 85 39-0015	LF		CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....4.48		
50 89 85 39-0016	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2".....14.22		
			For Up To 500, Add	2.09	
			For >500 To 1,000, Add	1.18	
			For >5,000 To 10,000, Deduct	-0.60	
			For >10,000 To 24,000, Deduct	-1.09	
			For >24,000 To 48,000, Deduct	-1.69	
			For >48,000, Deduct	-2.43	
50 89 85 39-0017	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3".....20.10		
			For Up To 300, Add	2.79	
			For >300 To 600, Add	2.34	
			For >3,000 To 6,000, Deduct	-0.87	
			For >6,000 To 16,000, Deduct	-1.59	
			For >16,000 To 32,000, Deduct	-2.47	
			For >32,000, Deduct	-3.54	
50 89 85 39-0018	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4".....27.69		
			For Up To 250, Add	3.61	
			For >250 To 500, Add	1.97	
			For >2,500 To 5,000, Deduct	-1.25	
			For >5,000 To 12,000, Deduct	-2.26	
			For >12,000 To 24,000, Deduct	-3.50	
			For >24,000, Deduct	-5.03	
50 89 85 39-0019	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6".....41.53		
			For Up To 160, Add	5.41	
			For >160 To 320, Add	2.95	
			For >1,600 To 3,200, Deduct	-1.87	
			For >3,200 To 8,000, Deduct	-3.39	
			For >8,000 To 16,000, Deduct	-5.26	
			For >16,000, Deduct	-7.54	
50 89 85 39-0020	TON		CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....152.99		
50 89 85 39-0021	TON		CALTRANS 397005 TACK COAT.....640.34		
50 89 85 39-0022	SF		CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY) .....137.45		
			For >500 To 1,000, Deduct	-13.75	
			For >1,000 To 2,500, Deduct	-24.74	
			For >2,500 To 5,000, Deduct	-35.74	
			For >5,000 To 10,000, Deduct	-46.73	
			For >10,000, Deduct	-57.73	
50 89 85 39-0023	SF		CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT).....2.33		
			For >500 To 1,000, Deduct	-0.23	
			For >1,000 To 2,500, Deduct	-0.42	
			For >2,500 To 5,000, Deduct	-0.61	
			For >5,000 To 10,000, Deduct	-0.79	
			For >10,000, Deduct	-0.98	
50 89 85 39-0024	LF		CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....4.38		
50 89 85 39-0025	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....3.50		
			For Up To 2,500, Add	2.63	
			For >2,500 To 5,000, Add	0.88	
			For >10,000 To 25,000, Deduct	-0.35	
			For >25,000, Deduct	-0.53	
50 89 85 39-0026	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....4.67		
			For Up To 2,500, Add	3.50	
			For >2,500 To 5,000, Add	1.17	
			For >10,000 To 25,000, Deduct	-0.47	
			For >25,000, Deduct	-0.70	

**50 89 85 40 CONCRETE PAVEMENT (50 89 85)**

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001	CY		CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT .....330.16		
			For >1,000 To 5,000, Deduct	-14.65	
			For >5,000, Deduct	-38.49	
50 89 85 40-0002	CY		CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT.....320.74		
			For >1,000 To 5,000, Deduct	-14.65	
			For >5,000, Deduct	-38.02	

**50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)**

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001	EA		CALTRANS 410096 DRILL AND BOND (DOWEL BAR) .....24.14		
50 89 85 41-0002	SY		CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE) .....351.97		
			For Up To 100, Add	465.44	
			For >100 To 250, Add	232.72	
50 89 85 41-0003	LF		CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....10.65		
50 89 85 41-0004	LF		CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4") .....12.06		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0005 LF CALTRANS 414224 REPLACE JOINT SEAL (PERFORMED COMPRESSION, 1-5/8" TO 2") .....	17.50	
50 89 85 41-0006 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE) .....	9.45	
50 89 85 41-0007 LF CALTRANS 414242 ISOLATION JOINT SEAL (PERFORMED COMPRESSION) .....	11.35	
50 89 85 41-0008 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER .....	53.26	
<i>For Up To 100, Add</i>	20.24	
<i>For &gt;100 To 250, Add</i>	11.59	
<i>For &gt;250 To 500, Add</i>	5.79	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.46	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.80	
<i>For &gt;5,000 To 10,000, Deduct</i>	-4.13	
<i>For &gt;10,000 To 20,000, Deduct</i>	-5.46	
<i>For &gt;20,000, Deduct</i>	-6.79	
50 89 85 41-0009 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE .....	39.31	
50 89 85 41-0010 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD) .....	16.66	
<i>For &gt;500 To 1,000, Deduct</i>	-1.67	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.00	
<i>For &gt;2,500 To 5,000, Deduct</i>	-4.33	
<i>For &gt;5,000 To 10,000, Deduct</i>	-5.66	
<i>For &gt;10,000, Deduct</i>	-7.00	
<b>50 89 85 42 GROOVE AND GRIND CONCRETE <small>(50 89 85)</small></b>		
<i>Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.</i>		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT .....	1.34	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK .....	2.02	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT .....	3.50	
<i>For Up To 2,500, Add</i>	2.63	
<i>For &gt;2,500 To 5,000, Add</i>	0.88	
<i>For &gt;10,000 To 25,000, Deduct</i>	-0.35	
<i>For &gt;25,000, Deduct</i>	-0.53	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK .....	22.14	
<i>For &gt;100 To 1,000, Deduct</i>	-11.07	
<i>For &gt;1,000, Deduct</i>	-16.61	
<b>50 89 86 CALTRANS DIVISION VI - STRUCTURES <small>(50 89 80)</small></b>		
<b>50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES <small>(50 89 86)</small></b>		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED) .....	13.84	20.26
<b>50 89 86 60 EXISTING STRUCTURES <small>(50 89 86)</small></b>		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1") .....	105.90	
<i>For Horizontal Cores, Add</i>	19.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	38.93	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2") .....	128.72	
<i>For Horizontal Cores, Add</i>	24.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	48.06	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3") .....	143.38	
<i>For Horizontal Cores, Add</i>	26.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.62	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4") .....	190.78	
<i>For Horizontal Cores, Add</i>	35.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	70.16	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5") .....	220.75	
<i>For Horizontal Cores, Add</i>	40.37	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	80.73	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6") .....	247.19	
<i>For Horizontal Cores, Add</i>	45.65	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	91.31	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7") .....	324.31	
<i>For Horizontal Cores, Add</i>	59.71	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	119.42	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8") .....	394.59	
<i>For Horizontal Cores, Add</i>	73.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	147.53	
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9") .....	72.57	
<i>For Horizontal Cores, Add</i>	7.65	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.30	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10") .....	430.78	
<i>For Horizontal Cores, Add</i>	79.29	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	158.59	
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12") .....	497.68	
<i>For Horizontal Cores, Add</i>	91.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	182.61	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2") .....	116.71	
<i>For Horizontal Cores, Add</i>	21.63	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.25	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2") .....	137.67	
<i>For Horizontal Cores, Add</i>	25.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.34	
<b>50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES <small>(50 89 80)</small></b>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**50 89 87 64****PLASTIC PIPE** (50 89 87)

Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 64-0001	LF	CALTRANS 641101 12" PLASTIC PIPE.....	34.30
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0002	LF	CALTRANS 641104 15" PLASTIC PIPE.....	42.21
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0003	LF	CALTRANS 641107 18" PLASTIC PIPE.....	52.01
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0004	LF	CALTRANS 641110 21" PLASTIC PIPE.....	60.62
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0005	LF	CALTRANS 641113 24" PLASTIC PIPE.....	69.93
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0006	LF	CALTRANS 641119 30" PLASTIC PIPE.....	99.31
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0007	LF	CALTRANS 641125 36" PLASTIC PIPE.....	121.46
		Note: Includes 1.30 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0008	LF	CALTRANS 641128 42" PLASTIC PIPE.....	206.93
		Note: Includes 1.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 64-0009	LF	CALTRANS 641131 48" PLASTIC PIPE.....	249.88
		Note: Includes 1.78 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38

**50 89 87 65****CONCRETE PIPE** (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 65-0001	LF	CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	46.34
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-2.32
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0002	LF	CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	57.24
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-2.86
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0003	LF	CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	66.08
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.30
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0004	LF	CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	84.04
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-4.20
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0005	LF	CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	97.66
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-4.88
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0006	LF	CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	120.29
		Note: Includes 0.98 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-6.01
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0007	LF	CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	128.54
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-6.43
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38
50 89 87 65-0008	LF	CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	143.01
		Note: Includes 1.19 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-7.15
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	157.35	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-7.87	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	199.47	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-9.97	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	237.16	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-11.86	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	290.99	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-14.55	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	349.20	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-17.46	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	512.26	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-25.61	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	593.81	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-29.69	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	707.86	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-35.39	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	896.93	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-44.85	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,088.50	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-54.43	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	64.80	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-3.24	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	125.97	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-6.30	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	139.99	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-7.00	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	153.87	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-7.69	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	46.34	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-2.32	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	57.24	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-2.86	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	66.08	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
<i>For &gt;1,000, Deduct</i>	-3.30	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.72	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.38	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	97.66	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	120.29	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.01	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	128.54	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	157.35	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	199.47	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	290.99	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.55	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	48.14	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	59.55	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.98	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	68.51	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	101.23	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.06	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	133.42	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.67	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	163.96	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.20	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	249.04	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.45	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	306.40	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.32	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0040 LF CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV).....	368.16	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0041 LF CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V).....	50.14	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.51	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0042 LF CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V).....	71.19	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.56	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V) .....	105.18	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.26	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V) .....	128.54	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V) .....	171.28	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.56	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V) .....	199.47	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V) .....	323.44	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-16.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V) .....	349.20	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.46	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V) .....	593.81	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-29.69	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) .....	46.72	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.34	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) .....	98.41	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.92	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	47.76	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	68.00	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.40	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0054 LF CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	86.53	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.33	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0055 LF CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	100.48	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.02	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	132.39	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.62	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	162.57	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0058 LF CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	207.03	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.35	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	246.54	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.33	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) .....	624.64	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-31.23	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT) .....	104.32	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.22	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT) .....	137.63	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT) .....	169.67	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.48	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT) .....	217.31	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT) .....	573.54	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-28.68	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III) .....	108.00	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.40	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III) .....	134.25	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.71	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III) .....	179.33	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II) .....	189.14	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.46	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III) .....	318.53	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.93	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE .....	60.96	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.05	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE .....	90.14	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.51	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE .....	118.27	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.91	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0074 LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE .....	143.42	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
<b>50 89 87 66 CORRUGATED METAL PIPE (50 89 87)</b>		
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.		
50 89 87 66-0001 LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK) .....	20.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	















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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....499.26 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....547.77 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....540.26 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....592.18 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....579.12 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....642.65 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....618.53 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....114.85 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK) .....87.52 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....96.01 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....162.02 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....80.07 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK) .....149.91 Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....138.21 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....40.31 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....42.70 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK) .....50.15 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....68.84 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....74.33 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK) .....121.26 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	
50 89 87 66-0129 LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....74.96 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.72 1.38	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0130	LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	79.82		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0131	LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	43.71		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0132	LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	46.67		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0133	LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	76.64		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0134	LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	83.45		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0135	LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	104.71		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0136	LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	121.37		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0137	LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	87.90		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0138	LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	141.75		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0139	LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	51.26		
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0140	LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	62.63		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0141	LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	70.08		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0142	LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	72.53		
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0143	LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	81.32		
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0144	LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	76.05		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0145	LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	91.11		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0146	LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	99.82		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0147	LF CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	107.34		
	Note: Includes 1.08 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0148	LF CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	119.61		
	Note: Includes 1.08 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0149	LF CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	130.57		
	Note: Includes 1.08 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 66-0150	LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	131.84		
	Note: Includes 1.30 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	146.35	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	160.01	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	152.53	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	169.28	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	185.20	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	181.19	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	196.07	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	214.12	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	211.60	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	228.02	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	265.15	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	285.71	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	437.45	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK).....	97.96	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK).....	192.40	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0166 LF CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	39.97	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0167 LF CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	53.79	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0168 LF CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	57.42	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0169 LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....	64.93	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0170 LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	29.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0171 LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	80.07	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

**50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)**

Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 67-0001	LF CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK).....		623.94	
	Note: Includes 4.05 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 67-0002	LF CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....		687.22	
	Note: Includes 5.30 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 67-0003	LF CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....		764.69	
	Note: Includes 6.22 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 67-0004	LF CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK) .....		888.42	
	Note: Includes 0.32 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
<b>50 89 87 68 SUBSURFACE DRAINS (50 89 87)</b>				
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.				
50 89 87 68-0001	LF CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....		22.06	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 68-0002	LF CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....		29.58	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 68-0003	LF CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....		31.94	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 68-0004	LF CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....		41.68	
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 68-0005	LF CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....		44.77	
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
50 89 87 68-0006	LF CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) .....		34.58	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.72	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38	
<b>50 89 87 69 OVERSIDE DRAINS (50 89 87)</b>				
Note: Includes constructing outside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.				
50 89 87 69-0001	LF CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK) .....		21.81	
50 89 87 69-0002	LF CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		27.35	
50 89 87 69-0003	LF CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		29.22	
50 89 87 69-0004	LF CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN .....		34.94	
50 89 87 69-0005	LF CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK) .....		37.53	
50 89 87 69-0006	LF CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		39.97	
50 89 87 69-0007	LF CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		49.40	
50 89 87 69-0008	LF CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		55.60	
50 89 87 69-0009	LF CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		53.79	
50 89 87 69-0010	LF CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		57.42	
50 89 87 69-0011	LF CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		64.93	
50 89 87 69-0012	LF CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		69.53	
50 89 87 69-0013	LF CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		74.41	
50 89 87 69-0014	LF CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		84.35	
50 89 87 69-0015	LF CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....		92.71	
50 89 87 69-0016	LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		98.83	
50 89 87 69-0017	LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		111.13	
50 89 87 69-0018	LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....		121.75	
50 89 87 69-0019	LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		129.09	
50 89 87 69-0020	LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		143.69	
50 89 87 69-0021	LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....		157.35	
50 89 87 69-0022	LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		165.48	
50 89 87 69-0023	LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		187.59	
50 89 87 69-0024	LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....		205.73	
50 89 87 69-0025	LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		226.15	
50 89 87 69-0026	LF CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		29.43	
50 89 87 69-0027	LF CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		31.31	
50 89 87 69-0028	LF CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		40.29	
50 89 87 69-0029	LF CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		42.74	
50 89 87 69-0030	LF CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		57.95	
50 89 87 69-0031	LF CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		61.62	
50 89 87 69-0032	LF CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		69.74	
50 89 87 69-0033	LF CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		75.13	
50 89 87 69-0034	LF CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		80.07	
50 89 87 69-0035	LF CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		90.81	
50 89 87 69-0036	LF CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....		100.57	
50 89 87 69-0037	LF CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....		106.10	
50 89 87 69-0038	LF CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....		119.34	
50 89 87 69-0039	LF CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....		131.03	

**50 Custom Standards And Assemblies**  
**50 89 CALTRANS Custom Standards And Assemblies**  
**50 89 80 CALTRANS Construction Performance Requirements**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

50 89 87 69-0040	LF	CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	153.84	
50 89 87 69-0041	LF	CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	170.26	
50 89 87 69-0042	LF	CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	177.37	
50 89 87 69-0043	LF	CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	201.02	
50 89 87 69-0044	LF	CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	131.75	
50 89 87 69-0045	LF	CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	53.24	
50 89 87 69-0046	LF	CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	77.11	
50 89 87 69-0047	LF	CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	73.63	
50 89 87 69-0048	LF	CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	96.01	
50 89 87 69-0049	LF	CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	159.34	
50 89 87 69-0050	LF	CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	255.24	
50 89 87 69-0051	LF	CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN	34.30	
50 89 87 69-0052	LF	CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN	52.01	
50 89 87 69-0053	EA	CALTRANS 692303 8" ANCHOR ASSEMBLY	510.57	
50 89 87 69-0054	EA	CALTRANS 692305 12" ANCHOR ASSEMBLY	634.08	
50 89 87 69-0055	EA	CALTRANS 692306 15" ANCHOR ASSEMBLY	708.98	
50 89 87 69-0056	EA	CALTRANS 692307 18" ANCHOR ASSEMBLY	789.48	
50 89 87 69-0057	EA	CALTRANS 692309 24" ANCHOR ASSEMBLY	967.65	
50 89 87 69-0058	EA	CALTRANS 692311 30" ANCHOR ASSEMBLY	1,160.07	
50 89 87 69-0059	EA	CALTRANS 692313 36" ANCHOR ASSEMBLY	1,352.65	
50 89 87 69-0060	EA	CALTRANS 692319 54" ANCHOR ASSEMBLY	1,932.06	

**50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)**

50 89 87 70-0001	LF	CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK)	129.09	
50 89 87 70-0002	LF	CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK)	129.09	
50 89 87 70-0003	LF	CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK)	143.69	
50 89 87 70-0004	LF	CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK)	157.35	
50 89 87 70-0005	LF	CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK)	188.16	
50 89 87 70-0006	LF	CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK)	187.59	
50 89 87 70-0007	LF	CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK)	205.73	
50 89 87 70-0008	LF	CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK)	131.03	
50 89 87 70-0009	LF	CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	137.36	
50 89 87 70-0010	LF	CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK)	153.84	
50 89 87 70-0011	LF	CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK)	170.26	
50 89 87 70-0012	LF	CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	201.02	
50 89 87 70-0013	LF	CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK)	66.22	23.18
		<i>For &gt;1,000, Deduct</i>	-3.31	
50 89 87 70-0014	LF	CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK)	89.76	25.29
		<i>For &gt;1,000, Deduct</i>	-4.49	
50 89 87 70-0015	LF	CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK)	100.47	26.49
		<i>For &gt;1,000, Deduct</i>	-5.02	
50 89 87 70-0016	LF	CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK)	139.60	34.77
		<i>For &gt;1,000, Deduct</i>	-6.98	
50 89 87 70-0017	LF	CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK)	182.57	57.72
		<i>For &gt;1,000, Deduct</i>	-9.13	
50 89 87 70-0018	LF	CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK)	195.86	57.72
		<i>For &gt;1,000, Deduct</i>	-9.79	
50 89 87 70-0019	LF	CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK)	248.61	66.61
		<i>For &gt;1,000, Deduct</i>	-12.43	
50 89 87 70-0020	LF	CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK)	288.39	77.71
		<i>For &gt;1,000, Deduct</i>	-14.42	
50 89 87 70-0021	LF	CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK)	383.30	93.25
		<i>For &gt;1,000, Deduct</i>	-19.17	
50 89 87 70-0022	LF	CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK)	645.19	104.35
		<i>For &gt;1,000, Deduct</i>	-32.26	
50 89 87 70-0023	LF	CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	738.84	117.67
		<i>For &gt;1,000, Deduct</i>	-36.94	
50 89 87 70-0024	EA	CALTRANS 705007 12" STEEL FLARED END SECTION	317.33	56.81
50 89 87 70-0025	EA	CALTRANS 705009 15" STEEL FLARED END SECTION	364.87	60.87
50 89 87 70-0026	EA	CALTRANS 705011 18" STEEL FLARED END SECTION	431.29	64.93
50 89 87 70-0027	EA	CALTRANS 705013 21" STEEL FLARED END SECTION	532.97	71.02
50 89 87 70-0028	EA	CALTRANS 705015 24" STEEL FLARED END SECTION	693.29	77.10
50 89 87 70-0029	EA	CALTRANS 705016 27" STEEL FLARED END SECTION	861.90	77.10
50 89 87 70-0030	EA	CALTRANS 705019 30" STEEL FLARED END SECTION	1,034.56	87.25
50 89 87 70-0031	EA	CALTRANS 705023 36" STEEL FLARED END SECTION	1,741.46	102.75
50 89 87 70-0032	EA	CALTRANS 705027 42" STEEL FLARED END SECTION	2,219.48	119.87
50 89 87 70-0033	EA	CALTRANS 705031 48" STEEL FLARED END SECTION	3,162.80	136.99
50 89 87 70-0034	EA	CALTRANS 705035 54" STEEL FLARED END SECTION	3,506.25	171.25
50 89 87 70-0035	EA	CALTRANS 705037 60" STEEL FLARED END SECTION	4,722.12	205.49
50 89 87 70-0036	EA	CALTRANS 705039 66" STEEL FLARED END SECTION	5,359.74	308.24
50 89 87 70-0037	EA	CALTRANS 705041 72" STEEL FLARED END SECTION	6,276.37	410.98
50 89 87 70-0038	EA	CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	366.22	56.81
50 89 87 70-0039	EA	CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	423.23	60.87
50 89 87 70-0040	EA	CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	503.64	64.93
50 89 87 70-0041	EA	CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	626.79	71.02
50 89 87 70-0042	EA	CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	822.67	77.10
50 89 87 70-0043	EA	CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	1,029.80	77.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0044 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,240.97	87.25
50 89 87 70-0045 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION.....	2,110.09	102.75
50 89 87 70-0046 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION.....	2,694.62	119.87
50 89 87 70-0047 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION.....	3,856.11	136.99
50 89 87 70-0048 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION.....	4,265.56	171.25
50 89 87 70-0049 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION.....	575.74	99.75
50 89 87 70-0050 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION.....	694.54	124.32
50 89 87 70-0051 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION.....	845.50	157.37
50 89 87 70-0052 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION.....	969.08	188.19
50 89 87 70-0053 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION.....	1,178.32	217.82
50 89 87 70-0054 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION.....	1,451.21	347.88
50 89 87 70-0055 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION.....	1,551.38	478.96
50 89 87 70-0056 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION.....	2,080.92	604.48
50 89 87 70-0057 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION.....	2,508.78	758.43
50 89 87 70-0058 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION.....	2,726.94	855.36
50 89 87 70-0059 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION.....	3,050.58	958.02
50 89 87 70-0060 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION.....	3,050.58	958.02
50 89 87 70-0061 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION.....	458.04	64.93
50 89 87 70-0062 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION.....	497.49	71.02
50 89 87 70-0063 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION.....	536.92	77.10
50 89 87 70-0064 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION.....	800.00	87.25
50 89 87 70-0065 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION.....	1,503.64	102.75
50 89 87 70-0066 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION.....	2,007.18	119.87
50 89 87 70-0067 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION.....	3,080.12	136.99
50 89 87 70-0068 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION.....	3,528.70	171.25
50 89 87 70-0069 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION.....	4,266.28	205.49

**50 89 87 71 EXISTING DRAINAGE FACILITIES** (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 89 87 71-0001 EA CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE.....	350.28	
50 89 87 71-0002 LF CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF).....	41.74	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.83	
For >1,000 To 2,000, Deduct	-5.74	
For >2,000 To 5,000, Deduct	-7.66	
For >5,000, Deduct	-9.57	
50 89 87 71-0003 CY CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL.....	214.76	
50 89 87 71-0004 CY CALTRANS 710370 SAND BACKFILL.....	52.60	
For Up To 10, Add	14.43	
For >10 To 25, Add	5.26	
50 89 87 71-0005 LF CALTRANS 710372 8" CURED-IN-PLACE PIPELINER.....	45.82	
For >10 To 25, Add	40.73	
For >25 To 50, Add	26.08	
For >50 To 100, Add	13.04	
For >500 To 1,000, Deduct	-1.63	
For >1,000 To 2,000, Deduct	-2.94	
For >2,000 To 5,000, Deduct	-4.57	
For >5,000, Deduct	-7.18	
50 89 87 71-0006 LF CALTRANS 710374 10" CURED-IN-PLACE PIPELINER.....	63.44	
For >10 To 25, Add	47.70	
For >25 To 50, Add	31.08	
For >50 To 100, Add	15.54	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-3.74	
For >2,000 To 5,000, Deduct	-5.79	
For >5,000, Deduct	-9.17	
50 89 87 71-0007 LF CALTRANS 710376 12" CURED-IN-PLACE PIPELINER.....	75.11	
For >10 To 25, Add	53.90	
For >25 To 50, Add	35.32	
For >50 To 100, Add	17.66	
For >500 To 1,000, Deduct	-2.36	
For >1,000 To 2,000, Deduct	-4.33	
For >2,000 To 5,000, Deduct	-6.69	
For >5,000, Deduct	-10.63	
50 89 87 71-0008 LF CALTRANS 710378 15" CURED-IN-PLACE PIPELINER.....	116.66	
For >10 To 25, Add	68.97	
For >25 To 50, Add	46.33	
For >50 To 100, Add	23.16	
For >500 To 1,000, Deduct	-3.31	
For >1,000 To 2,000, Deduct	-6.17	
For >2,000 To 5,000, Deduct	-9.48	
For >5,000, Deduct	-15.20	
50 89 87 71-0009 LF CALTRANS 710380 18" CURED-IN-PLACE PIPELINER.....	139.39	
For >10 To 25, Add	79.80	
For >25 To 50, Add	53.85	
For >50 To 100, Add	26.93	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-7.27	
For >2,000 To 5,000, Deduct	-11.16	
For >5,000, Deduct	-17.94	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0010 LF CALTRANS 710382 21" CURED-IN-PLACE PIPELINER.....	178.52	
For >10 To 25, Add	93.34	
For >25 To 50, Add	63.85	
For >50 To 100, Add	31.92	
For >500 To 1,000, Deduct	-4.76	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.74	
For >5,000, Deduct	-22.18	
50 89 87 71-0011 LF CALTRANS 710384 24" CURED-IN-PLACE PIPELINER.....	222.97	
For >10 To 25, Add	108.89	
For >25 To 50, Add	75.30	
For >50 To 100, Add	37.65	
For >500 To 1,000, Deduct	-5.76	
For >1,000 To 2,000, Deduct	-10.93	
For >2,000 To 5,000, Deduct	-16.69	
For >5,000, Deduct	-27.02	
50 89 87 71-0012 LF CALTRANS 710386 27" CURED-IN-PLACE PIPELINER.....	296.04	
For >10 To 25, Add	135.59	
For >25 To 50, Add	94.79	
For >50 To 100, Add	47.39	
For >500 To 1,000, Deduct	-7.43	
For >1,000 To 2,000, Deduct	-14.17	
For >2,000 To 5,000, Deduct	-21.59	
For >5,000, Deduct	-35.08	
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER.....	329.71	
For >10 To 25, Add	150.81	
For >25 To 50, Add	105.45	
For >50 To 100, Add	52.72	
For >500 To 1,000, Deduct	-8.27	
For >1,000 To 2,000, Deduct	-15.77	
For >2,000 To 5,000, Deduct	-24.04	
For >5,000, Deduct	-39.05	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER.....	394.77	
For >10 To 25, Add	175.49	
For >25 To 50, Add	123.32	
For >50 To 100, Add	61.66	
For >500 To 1,000, Deduct	-9.77	
For >1,000 To 2,000, Deduct	-18.69	
For >2,000 To 5,000, Deduct	-28.46	
For >5,000, Deduct	-46.30	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER.....	460.97	
For >10 To 25, Add	203.04	
For >25 To 50, Add	142.92	
For >50 To 100, Add	71.46	
For >500 To 1,000, Deduct	-11.37	
For >1,000 To 2,000, Deduct	-21.76	
For >2,000 To 5,000, Deduct	-33.12	
For >5,000, Deduct	-53.90	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER.....	528.84	
For >10 To 25, Add	234.77	
For >25 To 50, Add	165.02	
For >50 To 100, Add	82.51	
For >500 To 1,000, Deduct	-13.08	
For >1,000 To 2,000, Deduct	-25.03	
For >2,000 To 5,000, Deduct	-38.11	
For >5,000, Deduct	-62.00	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER.....	691.27	
For >10 To 25, Add	301.83	
For >25 To 50, Add	212.80	
For >50 To 100, Add	106.40	
For >500 To 1,000, Deduct	-16.98	
For >1,000 To 2,000, Deduct	-32.52	
For >2,000 To 5,000, Deduct	-49.50	
For >5,000, Deduct	-80.60	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER.....	882.89	
For >10 To 25, Add	396.81	
For >25 To 50, Add	278.32	
For >50 To 100, Add	139.16	
For >500 To 1,000, Deduct	-21.96	
For >1,000 To 2,000, Deduct	-41.97	
For >2,000 To 5,000, Deduct	-63.93	
For >5,000, Deduct	-103.94	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER.....	145.00	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-2.40	
For >2,000, Deduct	-4.80	
50 89 87 71-0020 LF CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER.....	163.87	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000, Deduct	-5.21	
50 89 87 71-0021 LF CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER.....	199.45	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,000, Deduct	-2.84	
For >2,000, Deduct	-5.68	
50 89 87 71-0022 LF CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	20.03	
50 89 87 71-0023 LF CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	29.67	
50 89 87 71-0024 LF CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	39.89	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0025	LF	CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	49.39	
50 89 87 71-0026	LF	CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	64.20	
50 89 87 71-0027	LF	CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	76.84	
50 89 87 71-0028	LF	CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	87.86	
50 89 87 71-0029	LF	CALTRANS 710448 12" CEMENTITIOUS PIPELINER	56.83	
50 89 87 71-0030	LF	CALTRANS 710450 15" CEMENTITIOUS PIPELINER	61.82	
50 89 87 71-0031	LF	CALTRANS 710452 18" CEMENTITIOUS PIPELINER	65.10	
50 89 87 71-0032	LF	CALTRANS 710454 21" CEMENTITIOUS PIPELINER	69.16	
50 89 87 71-0033	LF	CALTRANS 710456 24" CEMENTITIOUS PIPELINER	73.14	
50 89 87 71-0034	LF	CALTRANS 710458 27" CEMENTITIOUS PIPELINER	76.02	
50 89 87 71-0035	LF	CALTRANS 710460 30" CEMENTITIOUS PIPELINER	78.80	
50 89 87 71-0036	LF	CALTRANS 710462 36" CEMENTITIOUS PIPELINER	77.46	
50 89 87 71-0037	LF	CALTRANS 710478 36" WELDED STEEL PIPELINER	472.47	
50 89 87 71-0038	LF	CALTRANS 710480 42" WELDED STEEL PIPELINER	545.97	
50 89 87 71-0039	LF	CALTRANS 710482 48" WELDED STEEL PIPELINER	621.22	
50 89 87 71-0040	LF	CALTRANS 710484 54" WELDED STEEL PIPELINER	750.41	
50 89 87 71-0041	LF	CALTRANS 710486 60" WELDED STEEL PIPELINER	814.54	
50 89 87 71-0042	LF	CALTRANS 710488 66" WELDED STEEL PIPELINER	890.58	
50 89 87 71-0043	LF	CALTRANS 710490 72" WELDED STEEL PIPELINER	1,052.02	
50 89 87 71-0044	LF	CALTRANS 710491 78" WELDED STEEL PIPELINER	1,113.54	
50 89 87 71-0045	LF	CALTRANS 710492 84" WELDED STEEL PIPELINER	1,181.34	
50 89 87 71-0046	LF	CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	250.79	
50 89 87 71-0047	LF	CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")	312.00	
50 89 87 71-0048	LF	CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")	386.14	
50 89 87 71-0049	LF	CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")	463.50	
50 89 87 71-0050	LF	CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)	1,164.01	
50 89 87 71-0051	LF	CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)	52.04	
50 89 87 71-0052	LF	CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)	65.41	
50 89 87 71-0053	LF	CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)	80.30	
50 89 87 71-0054	LF	CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)	92.64	
50 89 87 71-0055	LF	CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)	106.03	
50 89 87 71-0056	LF	CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)	121.05	
50 89 87 71-0057	LF	CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)	136.58	
50 89 87 71-0058	LF	CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)	158.26	
50 89 87 71-0059	LF	CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)	181.00	
50 89 87 71-0060	LF	CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)	200.09	
50 89 87 71-0061	LF	CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)	219.19	
50 89 87 71-0062	LF	CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)	250.63	
50 89 87 71-0063	LF	CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)	282.08	
50 89 87 71-0064	LF	CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)	363.18	
50 89 87 71-0065	LF	CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)	443.24	
50 89 87 71-0066	LF	CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)	468.08	
50 89 87 71-0067	LF	CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)	587.00	
50 89 87 71-0068	LF	CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)	62.14	
50 89 87 71-0069	LF	CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)	78.12	
50 89 87 71-0070	LF	CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)	96.15	
50 89 87 71-0071	LF	CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)	111.02	
50 89 87 71-0072	LF	CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)	127.21	
50 89 87 71-0073	LF	CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)	145.40	
50 89 87 71-0074	LF	CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)	164.24	
50 89 87 71-0075	LF	CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)	190.69	
50 89 87 71-0076	LF	CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)	218.46	
50 89 87 71-0077	LF	CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26)	241.70	
50 89 87 71-0078	LF	CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26)	264.96	
50 89 87 71-0079	LF	CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)	303.52	
50 89 87 71-0080	LF	CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)	342.08	
50 89 87 71-0081	LF	CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)	442.23	
50 89 87 71-0082	LF	CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)	541.07	
50 89 87 71-0083	LF	CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)	571.45	
50 89 87 71-0084	LF	CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26)	718.05	
50 89 87 71-0085	LF	CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21)	75.18	
50 89 87 71-0086	LF	CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21)	94.53	
50 89 87 71-0087	LF	CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21)	116.63	
50 89 87 71-0088	LF	CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21)	134.77	
50 89 87 71-0089	LF	CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21)	154.56	
50 89 87 71-0090	LF	CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21)	176.85	
50 89 87 71-0091	LF	CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21)	199.96	
50 89 87 71-0092	LF	CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21)	232.58	
50 89 87 71-0093	LF	CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21)	266.84	
50 89 87 71-0094	LF	CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21)	295.45	
50 89 87 71-0095	LF	CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21)	324.08	
50 89 87 71-0096	LF	CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	371.83	
50 89 87 71-0097	LF	CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	419.60	
50 89 87 71-0098	LF	CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	544.33	
50 89 87 71-0099	LF	CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	667.44	
50 89 87 71-0100	LF	CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	704.97	
50 89 87 71-0101	LF	CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	887.33	

**50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)**



**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**50 89 88 73 CONCRETE CURBS AND SIDEWALKS** (50 89 88)

50 89 88 73-0001	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18" .....	23.32
	For Up To 20, Add	13.90
	For >20 To 50, Add	7.87
	For >50 To 100, Add	3.01
	For >500 To 1,000, Deduct	-3.01
	For >1,000, Deduct	-5.10
50 89 88 73-0002	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24" .....	26.86
	For Up To 20, Add	15.53
	For >20 To 50, Add	8.78
	For >50 To 100, Add	3.38
	For >500 To 1,000, Deduct	-3.38
	For >1,000, Deduct	-5.73
50 89 88 73-0003	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18" .....	24.76
	For Up To 20, Add	14.25
	For >20 To 50, Add	8.06
	For >50 To 100, Add	3.10
	For >500 To 1,000, Deduct	-3.10
	For >1,000, Deduct	-5.27
50 89 88 73-0004	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24" .....	28.82
	For Up To 20, Add	15.92
	For >20 To 50, Add	8.98
	For >50 To 100, Add	3.47
	For >500 To 1,000, Deduct	-3.47
	For >1,000, Deduct	-5.93
50 89 88 73-0005	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36" .....	40.17
	For Up To 20, Add	21.74
	For >20 To 50, Add	12.24
	For >50 To 100, Add	4.75
	For >500 To 1,000, Deduct	-4.75
	For >1,000, Deduct	-8.13
50 89 88 73-0006	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24" .....	35.28
	For Up To 20, Add	18.48
	For >20 To 50, Add	10.38
	For >50 To 100, Add	4.05
	For >500 To 1,000, Deduct	-4.05
	For >1,000, Deduct	-6.96
50 89 88 73-0007	LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36" .....	49.80
	For Up To 20, Add	25.54
	For >20 To 50, Add	14.33
	For >50 To 100, Add	5.61
	For >500 To 1,000, Deduct	-5.61
	For >1,000, Deduct	-9.65
50 89 88 73-0008	LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18" .....	30.90
	For Up To 20, Add	20.94
	For >20 To 50, Add	11.67
	For >50 To 100, Add	4.64
	For >500 To 1,000, Deduct	-3.95
	For >1,000, Deduct	-6.69
50 89 88 73-0009	LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24" .....	37.50
	For Up To 20, Add	25.40
	For >20 To 50, Add	14.15
	For >50 To 100, Add	5.63
	For >500 To 1,000, Deduct	-4.77
	For >1,000, Deduct	-8.10
50 89 88 73-0010	LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30" .....	48.97
	For Up To 20, Add	33.19
	For >20 To 50, Add	18.50
	For >50 To 100, Add	7.35
	For >500 To 1,000, Deduct	-6.25
	For >1,000, Deduct	-10.61
50 89 88 73-0011	LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36" .....	51.62
	For Up To 20, Add	34.96
	For >20 To 50, Add	19.47
	For >50 To 100, Add	7.74
	For >500 To 1,000, Deduct	-6.57
	For >1,000, Deduct	-11.14
50 89 88 73-0012	SF CALTRANS 730070 DETECTABLE WARNING SURFACE .....	39.28
50 89 88 73-0013	CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION) .....	187.46
	For Up To 20, Add	11.39
	For >20 To 50, Add	4.27
	For >100 To 200, Deduct	-3.75
	For >200 To 400, Deduct	-7.50
	For >400, Deduct	-11.25
50 89 88 73-0014	SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4" .....	8.35
	For Up To 100, Add	3.57
	For >100 To 500, Add	1.01
	For >1,000 To 5,000, Deduct	-0.59
	For >5,000, Deduct	-1.31
50 89 88 73-0015	SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6" .....	9.87
	For Up To 100, Add	4.06
	For >100 To 500, Add	1.13
	For >1,000 To 5,000, Deduct	-0.64
	For >5,000, Deduct	-1.45
50 89 88 73-0016	LF CALTRANS 731700 REMOVE CURB .....	9.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF).....	15.24	
<i>For Up To 20, Add</i>	10.67	
<i>For &gt;20 To 50, Add</i>	6.10	
<i>For &gt;50 To 100, Add</i>	2.29	
<i>For &gt;500 To 1,000, Deduct</i>	-2.29	
<i>For &gt;1,000, Deduct</i>	-3.81	
50 89 88 73-0018 SF CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD) .....	9.87	
<i>For Up To 100, Add</i>	4.06	
<i>For &gt;100 To 500, Add</i>	1.13	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.64	
<i>For &gt;5,000, Deduct</i>	-1.45	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER).....	25.12	
<i>For Up To 20, Add</i>	17.58	
<i>For &gt;20 To 50, Add</i>	10.05	
<i>For &gt;50 To 100, Add</i>	3.77	
<i>For &gt;500 To 1,000, Deduct</i>	-3.77	
<i>For &gt;1,000, Deduct</i>	-6.28	
<b>50 89 88 78 INCIDENTAL CONSTRUCTION <small>(50 89 88)</small></b>		
50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A).....	444.17	
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE.....	190.62	
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT).....	4.77	
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING .....	1.38	
<i>For Up To 100, Add</i>	0.86	
<i>For &gt;100 To 250, Add</i>	0.41	
<i>For &gt;250 To 500, Add</i>	0.18	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE) .....	73.36	18.45
<b>50 89 88 80 FENCES <small>(50 89 88)</small></b>		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST) .....	9.87	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST) .....	10.51	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST) .....	11.31	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST) .....	10.46	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST) .....	9.22	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST) .....	11.96	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6)).....	6.61	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD) .....	28.74	
<i>For Up To 100, Add</i>	5.66	
<i>For &gt;100 To 250, Add</i>	2.11	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.06	
<i>For &gt;5,000, Deduct</i>	-2.11	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5) .....	27.90	
<i>For Up To 100, Add</i>	5.51	
<i>For &gt;100 To 250, Add</i>	2.06	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.03	
<i>For &gt;5,000, Deduct</i>	-2.06	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4) .....	28.78	
<i>For Up To 100, Add</i>	5.67	
<i>For &gt;100 To 250, Add</i>	2.11	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.06	
<i>For &gt;5,000, Deduct</i>	-2.11	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD) .....	29.75	
<i>For Up To 100, Add</i>	5.81	
<i>For &gt;100 To 250, Add</i>	2.16	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.08	
<i>For &gt;5,000, Deduct</i>	-2.16	
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5) .....	30.83	
<i>For Up To 100, Add</i>	6.02	
<i>For &gt;100 To 250, Add</i>	2.24	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.12	
<i>For &gt;5,000, Deduct</i>	-2.24	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD) .....	32.06	
<i>For Up To 100, Add</i>	6.20	
<i>For &gt;100 To 250, Add</i>	2.30	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.15	
<i>For &gt;5,000, Deduct</i>	-2.30	
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6) .....	33.37	
<i>For Up To 100, Add</i>	6.49	
<i>For &gt;100 To 250, Add</i>	2.41	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.21	
<i>For &gt;5,000, Deduct</i>	-2.41	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD) .....	35.86	
<i>For Up To 100, Add</i>	6.86	
<i>For &gt;100 To 250, Add</i>	2.54	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.27	
<i>For &gt;5,000, Deduct</i>	-2.54	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM).....	33.94	
<i>For Up To 100, Add</i>	6.58	
<i>For &gt;100 To 250, Add</i>	2.44	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.22	
<i>For &gt;5,000, Deduct</i>	-2.44	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED) .....	69.49	
For Up To 100, Add	12.28	
For >100 To 250, Add	4.40	
For >2,500 To 5,000, Deduct	-2.20	
For >5,000, Deduct	-4.40	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8) .....	39.05	
For Up To 100, Add	7.50	
For >100 To 250, Add	2.77	
For >2,500 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-2.77	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4) .....	261.61	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4) .....	307.32	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4) .....	361.93	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4) .....	862.06	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5) .....	547.02	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5) .....	1,208.61	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5) .....	1,394.48	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5) .....	1,555.61	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6) .....	269.06	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6) .....	335.22	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD) .....	191.35	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM) .....	340.77	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED) .....	356.82	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6) .....	390.10	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6) .....	454.10	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6) .....	584.52	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM) .....	590.72	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6) .....	648.90	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6) .....	946.24	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6) .....	1,117.46	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6) .....	1,329.21	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6) .....	1,504.29	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6) .....	1,685.03	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6) .....	1,869.22	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6) .....	2,248.17	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7) .....	1,781.00	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM) .....	39.62	
For Up To 100, Add	7.58	
For >100 To 250, Add	2.80	
For >2,500 To 5,000, Deduct	-1.40	
For >5,000, Deduct	-2.80	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8) .....	412.59	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM) .....	418.14	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8) .....	550.44	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM) .....	714.74	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD) .....	1,031.31	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE .....	5.01	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.50	
For >2,500 To 5,000, Deduct	-0.25	
For >5,000, Deduct	-0.50	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE .....	228.03	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE .....	1,178.96	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE .....	24.28	

**50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)****50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER .....	2.23	
For >100, Deduct	-0.22	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE) .....	3.71	2.23
For >100, Deduct	-0.37	
For >100, Deduct	-0.37	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE) .....	4.16	2.23
For >100, Deduct	-0.42	
For >100, Deduct	-0.42	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED) .....	55.57	25.89

**50 89 89 82 SIGNS AND MARKERS (50 89 89)**

50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER .....	133.42	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED) .....	14.29	31.31
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED) .....	14.88	20.26

**50 89 89 83 RAILINGS AND BARRIERS (50 89 89)**

50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST) .....	39.07	8.86
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST) .....	77.41	12.34
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST) .....	58.61	2.41
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL .....	8.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>50 89 89 84 MARKINGS <small>(50 89 89)</small></b>		
50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE .....	1.66	
<i>For Up To 5,000 LF, Add</i>	0.33	
<i>For &gt;25,000 LF, Deduct</i>	-0.25	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE .....	2.19	
<i>For Up To 5,000 LF, Add</i>	0.44	
<i>For &gt;25,000 LF, Deduct</i>	-0.33	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4).....	0.98	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.83	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For &gt;25,000 LF, Deduct</i>	-0.12	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING .....	7.94	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING .....	7.94	
50 89 89 84-0007 LF CALTRANS840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1).....	0.55	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.64	
<i>For Up To 5,000 LF, Add</i>	0.13	
<i>For &gt;25,000 LF, Deduct</i>	-0.10	
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.75	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	0.86	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For &gt;25,000 LF, Deduct</i>	-0.13	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	1.21	
<i>For Up To 5,000 LF, Add</i>	0.24	
<i>For &gt;25,000 LF, Deduct</i>	-0.18	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.98	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE .....	0.58	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For &gt;25,000 LF, Deduct</i>	-0.09	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE .....	0.71	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE BROKEN 12-3).....	0.40	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.37	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.40	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.32	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For &gt;25,000 LF, Deduct</i>	-0.05	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.40	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.46	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For &gt;25,000 LF, Deduct</i>	-0.07	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.40	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.50	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING .....	6.47	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS .....	5.39	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide .....	0.25	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
50 89 89 84-0026 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide .....	0.33	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.05	
50 89 89 84-0027 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide .....	0.41	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0028 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide .....	0.49	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For &gt;25,000 LF, Deduct</i>	-0.07	
50 89 89 84-0029 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide .....	0.63	
<i>For Up To 5,000 LF, Add</i>	0.13	
<i>For &gt;25,000 LF, Deduct</i>	-0.09	
50 89 89 84-0030 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide .....	0.81	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For &gt;25,000 LF, Deduct</i>	-0.12	
50 89 89 84-0031 SF CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT).....	5.43	
50 89 89 84-0032 SF CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT).....	8.24	

**50 Custom Standards And Assemblies****50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0033 LF CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE .....	1.83	
For Up To 250, Add	0.92	
For >250 To 1,000, Add	0.46	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 25,000, Deduct	-0.46	
For >25,000 To 50,000, Deduct	-0.64	
For >50,000, Deduct	-0.73	
50 89 89 84-0034 SF CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING.....	3.15	
For Up To 250, Add	1.58	
For >250 To 1,000, Add	0.79	
For >5,000 To 10,000, Deduct	-0.47	
For >10,000 To 25,000, Deduct	-0.79	
For >25,000 To 50,000, Deduct	-1.10	
For >50,000, Deduct	-1.26	
50 89 89 84-0035 LF CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE .....	2.77	
For Up To 250, Add	1.39	
For >250 To 1,000, Add	0.69	
For >5,000 To 10,000, Deduct	-0.42	
For >10,000 To 25,000, Deduct	-0.69	
For >25,000 To 50,000, Deduct	-0.97	
For >50,000, Deduct	-1.11	
50 89 89 84-0036 SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING.....	4.01	
For Up To 250, Add	2.01	
For >250 To 1,000, Add	1.00	
For >5,000 To 10,000, Deduct	-0.60	
For >10,000 To 25,000, Deduct	-1.00	
For >25,000 To 50,000, Deduct	-1.40	
For >50,000, Deduct	-1.60	

**END OF SECTION 50**



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